

TEXAS STATE TECHNICAL COLLEGE

Catalog & Student Handbook

2026–2027



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Catalog and Student Handbooks

00. Handbook Home

Message from the Chancellor

Texas State Technical College (TSTC) is a different kind of college and it's on purpose. Our approach to education is hands-on and practical, emphasizing real-world experience and problem-solving skills. This "learning by thinking and doing" philosophy is supported by strong partnerships with Texas employers and takes place in capital-intensive training labs filled with high-tech equipment.

Students benefit from our singular focus on high-demand careers in Texas. So, TSTC graduates become highly-qualified job candidates. That's why we offer a Money-Back Guarantee program. You can find more information on this one-of-a-kind assurance program on the TSTC website.

TSTC is committed to strengthening the competitiveness of Texas business and industry by partnering with students to build skills and talents that are in high demand in our state. Welcome! We're glad you've chosen to build a stronger version of yourself at TSTC.

Regards,

Mike Reeser

Chancellor & CEO



01. About the Catalog & Student Handbook

About the Catalog & Student Handbook

Welcome to the Texas State Technical College (TSTC) Student Catalog and Handbook! This is your comprehensive guide to everything you need to know about our policies, procedures, and academic programs. While this catalog serves as your primary guide, please note that the [Statewide Operating Standards](#) and [Board of Regents](#) policies are the ultimate governing authorities for how we run the college. We have prepared this catalog using the most current operating procedures and policies adopted by TSTC.



What is a Catalog? A catalog is an official publication that describes the academic programs, course descriptions, and the rules and regulations you must follow while attending the college.

2026-2027 Catalog & Student Handbook

Degree Plan Requirements

If you are a new student starting your studies in the 2026-2027 **academic year**, or a returning student whose previous catalog has expired, the 2026-2027 edition of this handbook applies to you.

What is an Academic Year? An academic year is the period of time during which we offer classes, typically beginning with the fall semester and concluding at the end of the summer.

You have the option to follow the **degree plan** that was active when you first enrolled, or you can choose to follow the requirements from a more recent catalog, as long as:

- The program of study you are in is still available.
- The catalog you select is no more than five years old.
- You have received approval to change your major into the new catalog.

What is a Degree Plan? A degree plan is a specific list of required courses and milestones you must complete to earn your degree or certificate.

Changes and Course Offerings

We reserve the right to revise our procedures, policies, and course offerings whenever necessary to better serve you. Each semester, we publish an online course schedule that details which classes are available. Please keep in mind that not all courses listed in this catalog are offered every semester. However, we will make sure this information is available to you as early as possible before **registration** begins so you can plan ahead.

What is Registration? Registration is the official process where you select your classes and sign up for them for the upcoming semester.

How to Use this Catalog

In this catalog, we provide descriptions of our program offerings, procedures, policies, facilities, and support services. We want to highlight the wide range of resources available to help you reach your academic and career goals. This includes free advising and tutoring services designed specifically to support your success.

We accept applications year-round, so you can apply at any time! However, many of our programs fill up quickly once registration starts, so we encourage you to apply as early as possible. Some programs have additional admission requirements, which means you might be admitted to TSTC, but will still need to complete a separate process to be accepted into a specific program. For more information, please reach out to an **Admissions Advisor**.

What is an Admissions Advisor? An Admissions Advisor is a staff member dedicated to helping you through the application process and answering your questions about joining the TSTC community.

From the moment you apply, you will have access to our knowledgeable advisors and dedicated faculty members. We are all ready to help you make informed decisions about your path and your future career. We are excited to welcome you to the TSTC community and support you throughout your entire educational journey!

Important Notices

We reserve the right to limit enrollment in any program and to make changes to this catalog when we believe it is in the best interest of you or the college. In accordance with the policies of the TSTC [Board of Regents](#) and the laws of the state of Texas, we reserve the right to change any provision in this catalog without notice or obligation.

What is the Board of Regents? The Board of Regents is the governing body appointed by the Governor of Texas to oversee the management and operations of the TSTC system.

Please be aware that this catalog is not a legal document and does not constitute a contract between TSTC and you.

02. Academic Calendar

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Academic & Events Calendar

You can find important dates and events at tstc.edu/events.

If you have questions about these dates, your [enrollment coach or admissions advisor](#) is here to help.

Who is my admissions advisor? An admissions advisor is a specialist who helps you complete your application and meet all enrollment requirements. Admissions advisors are assigned to students based on their campus location and application program.

Who is my enrollment coach? An enrollment coach is a person who guides you through the registration and planning process when you are ready to enroll in courses. Enrollment coaches are assigned to students based on their campus location and chosen program of study.

FALL 2026	26/FA Semester
March 30, 2026	Registration Begins for 26 Fall Semester (All Students)
August 9, 2026	Payment Deadline for 26 Fall 15 Week Session
August 28, 2026	Payment Deadline for 26 Fall 12-Week Session
September 4, 2026	Fall Registration Ends for 15-Week Session
September 7, 2026	Student and Staff Holiday (Labor Day)
September 8, 2026	First Class Day for 15-Week Session
September 22, 2026	Official Census Date (11th Class Day) for 15-Week Session
September 28, 2026	First Class Day for 12-Week Session
October 2, 2026	Fall Registration Ends for 12-Week Session
October 8, 2026	Official Census Date (9th Class Day) for 12-Week Session
October 30, 2026	Mid-Term Grades Due for 15- and 12-Week Sessions
October 26, 2026	Registration Begins for 27 Spring Semester (All Students)
November 20, 2026	Last Day to Drop with a "W" for 15- and 12-Week Sessions
November 26-27, 2026	Student and Staff Holiday (Thanksgiving Holiday)
December 11, 2026	Final Exams Begin for 15- and 12-Week Sessions
December 13, 2026	Payment Deadline for 27 Spring 15-Week Session
December 18, 2026	End of Semester for 15- and 12-Week Sessions (Classes may continue beyond this date as scheduled, e.g., Saturday)
December 21, 2026	All Final Grades Due by 10 a.m. for 15- and 12-Week Sessions
SPRING 2027	27/SP Semester
October 26, 2026	Registration Begins for 27 Spring Semester (All Students)
December 13, 2026	Payment Deadline for 27 Spring 15-Week Session
January 2, 2027	Payment Deadline for 27 Spring 12-Week Session
January 8, 2027	Spring Registration Ends for 15-Week Session
January 11, 2027	First Class Day for 15-Week Session
January 18, 2027	Student and Staff Holiday (MLK Day)
January 26, 2027	Official Census Date (11th Class Day) for 15-Week Session
February 1, 2027	First Class Day for 12-Week Session

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February 5, 2027	Spring Registration Ends for 12-Week Session
February 11, 2027	Official Census Date (9th Class Day) for 12-Week Session
March 5, 2027	Mid-Term Grades Due for 15-Week Session
March 12, 2027	Mid-Term Grades Due for 12-Week Session
March 15-19, 2027	Spring Break
March 29, 2027	Registration Begins for 27 Summer and 27 Fall (All Students)
April 9, 2027	Last Day to Drop "W" for 15- and 12-Week Sessions
April 10, 2027	Payment Deadline for 27 Summer 15-Week Session
April 26, 2027	Final Exams Begin
April 30, 2027	End of Semester for 15- and 12-Week Sessions (Classes may continue beyond this date as scheduled, e.g., Saturday classes)
May 2, 2027	Payment Deadline for 27 Summer 12-Week Session
May 3, 2027	All Final Grades Due by 10 a.m. for 15- and 12-Week Sessions

SUMMER 2027	27/SU Semester
March 29, 2027	Registration Begins for 27 Summer and 27 Fall (All Students)
April 10, 2027	Payment Deadline for 27 Summer 15-Week Session
May 2, 2027	Payment Deadline for 27 Summer 12-Week Session
May 7, 2027	Summer Registration Ends for 15-Week Session
May 10, 2027	First Class Day for 15-Week Session
May 25, 2027	Official Census Date (12th Class Day) for 15-Week Session
May 31, 2026	Student and Staff Holiday (Memorial Day)
June 1, 2027	First Class Day for 12-Week Session
June 4, 2027	Summer Registration Ends for 12-Week Session
June 16, 2027	Official Census Date (9th Class Day) for 12-Week Session
July 5, 2027	Student and Staff Holiday (Independence Day)
July 9, 2027	Mid-Term Grades Due for 15- and 12 Week Sessions
July 23, 2027	Last Day to Drop with "W" for 15-Week Session
July 30, 2027	Last Day to Drop with "W" for 12-Week Session
August 16, 2027	Final Exams Begin for 15- and 12-Week Sessions
August 20, 2027	End of Semester for 15- and 12-Week Sessions (Classes may continue beyond this date as scheduled, e.g Saturday classes.)
August 23, 2027	All Final Grades Due by 10 a.m. for 15- and 12-Week Sessions

The information in this calendar applies to our standard 15-week semesters for Fall, Spring, and Summer. If you are taking **mini or flex sessions**, please contact the **executive registrar** for your specific schedule details.

What are mini or flex sessions? *Mini or flex sessions are shorter, intensive course terms that do not follow the traditional 15-week semester schedule.*

Who is the executive registrar? *The executive registrar is the college official responsible for overseeing student records, class registration, and the accuracy of the academic calendar.*

*Please be aware that evening and weekend classes scheduled on or around holidays may be rescheduled or canceled if we determine it is necessary and receive approval from the **executive vice chancellor & chief operating officer**.*

What is a vice chancellor? *A vice chancellor is a senior leader at TSTC who oversees specific divisions or operations of the college system.*

*Your mid-term dates and the last day to drop a course with a "W" (**Withdrawal**) will vary depending on the length of your specific class or section. If your course has start and end dates that differ from the standard calendar listed above, please verify that class information with your instructor.*

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What is a Withdrawal? A Withdrawal is when you officially drop a course after the Official Census Date. The "W" grade indicates that you withdrew from the course and does not affect your grade point average (GPA). While a 'W' does not affect your GPA, it may impact your financial aid eligibility under Satisfactory Academic Progress (SAP) requirements and may count toward the state-mandated six-course drop limit.

Important Dates to Know

- **Official Day** is the 11th class day for Fall and Spring semesters and the 12th class day for the Summer semester.
- **Our refund schedule is 70% on the 14th day and 25% on the 19th day.**
- **Prorated** Payment Due Date is the 19th day.

What is Official Day? Official Day is the specific date each term when we finalize enrollment numbers for state reporting and financial aid eligibility. It is also known as the "Official Census Date."

What is a refund schedule? A refund schedule outlines the percentage of your tuition that will be returned to you if you withdraw from courses on specific dates during the semester. For more information on refunds please see our [Statewide Operating Procedures FA 1.09 REFUND ON TUITION AND FEES](#).

What does it mean to prorate? To prorate means to distribute costs proportionally. When you withdraw from classes, we refund a percentage of your tuition based on how many days have passed in the term. If you haven't paid your full balance yet and you withdraw, you are still responsible for paying the non-refundable portion of your bill. The 19th day is the deadline to settle this remaining balance to avoid penalties or blocks on your account.

03. About the College

01. TSTC Mission

Our mission at Texas State Technical College (TSTC) is defined by the Texas State Legislature and is published [iVernon's Texas Education Code \(TEC\) Section 135.01](#).

What is the Texas Education Code (TEC) ? The Texas Education Code is the set of state laws that govern how public education and higher education institutions operate in Texas.

Who We Are

We are a **coeducational** two-year institution of higher education. This means we are a college open to and serving students of all genders together. We offer courses of study in **technical-vocational education** for which there is demand within the state of Texas.

What is Technical-Vocational Education? Technical-vocational education is a type of learning that focuses on providing you with the specific technical skills and hands-on training needed for a particular job or career path.

Our Commitment to Texas

We are dedicated to contributing to the educational and economic development of the state of Texas. We do this by offering **occupationally oriented programs**—courses and degrees designed to prepare you for real jobs in the workforce—supported by academic coursework. We emphasize highly specialized, advanced and **emerging** technical and vocational areas that lead to **certificates** or **associate degrees**.

What are Occupationally Oriented Programs? Occupationally oriented programs are educational offerings specifically designed to prepare you with the skills and knowledge needed for employment in a particular field or industry.

What are emerging technical areas? Emerging areas refer to new and developing technologies or industries that are just starting to grow and become important in the workforce.

What is a Certificate? A certificate is a credential you earn by completing a specific set of courses or training in a specialized technical field, usually in a shorter timeframe than a degree.

What is an Associate Degree? An associate degree is an undergraduate academic degree awarded after you complete a

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specific course of study, typically completed in two years.

How We Serve You and Texas

We are authorized to serve the state of Texas through excellence in instruction, public service, faculty and **manpower research**, and economic development. Our economic development efforts focus on improving the competitiveness of Texas business and industry. This includes creating exemplary **centers of excellence** in technical program clusters on our campuses and supporting education research **commercialization initiatives**.

What is Manpower Research? Manpower research is the study of the workforce to understand what jobs are available, what skills employers are looking for, and how many workers are needed in specific industries.



What is a Center of Excellence? A center of excellence is a specialized facility or program on our campus that is recognized for providing outstanding training and expertise in a particular technical field.

What are Commercialization Initiatives? Commercialization initiatives are efforts to take new ideas, research, or inventions developed through education and turn them into products or services that can be bought and sold in the market.

Through close collaboration with business, industry, governmental agencies, and communities—including public and private secondary and postsecondary educational institutions—we facilitate and deliver an **articulated** and responsive technical education system.

What does it mean to be Articulated? An articulated system is one where different levels of education are linked together so that your credits and s

kills can move smoothly from one level to the next. An articulated system refers to formal agreements between institutions designed to facilitate credit transfer. Actual credit acceptance is subject to [evaluation and program requirements](#).

Our Focus on Your Success

When we develop and offer our highly specialized technical programs with related supportive coursework, we place primary consideration on the industrial and technological manpower needs of the state. Each TSTC campus emphasizes advanced or emerging programs that are not commonly offered by public junior colleges. This means we focus on training you for the jobs that Texas employers need filled right now and in the future.

02. Vision & Values

Our Vision

Texas State Technical College is a leader in strengthening the competitiveness of Texas business and industry by building the state's capacity to develop the highest-quality workforce.

When we talk about the state's capacity, we mean the total ability or power Texas has to produce a skilled workforce. Our goal is to make sure you are ready to join that workforce with the best skills possible.

Our Values

At TSTC, our values guide everything we do. They shape how we work with you and how we serve Texas. Here are the four core values that define who we are:

Excellence **Behaviors**

We are different because we:

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- Practice and prepare in order to be excellent.
- Articulate, measure, and deliver on expectations.

Beliefs

We believe:

- We are driven to transform higher education.
- The status quo is insufficient.
- In being proactive.
- To be effective, we must begin with the end in mind.

Outcomes

We will:

- Deliver results that consistently exceed expectations.
- Demonstrate higher performance than others.

Accountability **Behaviors**

We are different because we:

- Make commitments and follow through on them.
- Encourage and participate in timely, frank dialogue and feedback.
- Hold each other accountable, even when it is uncomfortable to do so.

Beliefs

We believe:

- What gets inspected gets done.
- Focusing on the important tasks contributes to execution.
- All actions have natural consequences.

Outcomes

We will:

- Always strive for institutional learning and continuous improvement.
- Establish and earn trust in each other.
- See enhanced institutional growth.
- Experience personal and professional growth.

Service **Behaviors**

We are different because we:

- Have a positive attitude.
- Anticipate, recognize and meet customer needs.
- Are aware of our customer's needs and are intentional in our delivery of service.
- Are authentic in our interactions.
- Are empathetic.
- Share in the ownership of our customer's problems and needed solutions.

Beliefs

We believe:

- We exist to serve Texas as stated in [Texas Education Code 135.01\(b\)](#).
- Service is in our mission.
- We create economic opportunity.

Outcomes

We will:

- Ensure customers are delighted with their experience.
- Always exceed expectations.
- Provide solutions.
- Always leave a good impression.
- Demonstrate loyalty and have lasting relationships.
- Strive to meet the needs of our students and the college.

Integrity **Behaviors**

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We are different because we:

- Act truthfully and honorably.
- Act authentically.
- Act consistent with the mission and intent of the college.
- Speak up when it may be risky to do so.
- Challenge any situation that encourages dishonesty or rewards unethical behavior.
- Follow our convictions even if no one is watching.

Beliefs

We believe:

- Integrity is foundational. If it is compromised, the other values lose impact.
- TSTC's credibility and character are directly linked to integrity.
- As members of the TSTC family, our personal integrity reflects on the organization.

Outcomes

We will:

- Always represent our stakeholders' interests.
- Never compromise our brand.
- Always act in a trustworthy manner.
- Mitigate risk.

03. History of Texas State Technical College

Our Beginning

We were established in 1965 as the James Connally Technical Institute (JCTI) of Texas A&M University to meet the state's evolving **workforce needs**. Our first home was in Central Texas at the former James Connally Air Force Base in Waco. At the time, Governor John Connally predicted that we would become "the most sophisticated technical-vocational institute in the country."

What are Workforce Needs? Workforce needs refer to the specific skills and types of employees that businesses and industries in Texas require to be successful and grow.

Our Growth and Independence

In 1967, we expanded to include a South Texas campus in Harlingen. By 1969, we separated from Texas A&M University to become an independent state system called the Texas State Technical Institute (TSTI), with our own [Board of Regents](#).

What is the Board of Regents? The Board of Regents is the governing body appointed by the Governor of Texas to oversee the management and operations of the TSTC system.

We continued to grow, adding a campus in the Texas Panhandle and another in Sweetwater in West Texas in 1970. As the demand for quality technical education continued to grow, we established campuses in Abilene (1985), Breckenridge (1989), Brownwood (1991), and Marshall (1991). In 1991, we were officially renamed Texas State Technical College. Our expansion continued with campuses in East Williamson County, North Texas (2013), and Fort Bend County (2016).

TSTC Today

Today, we serve as the state's college for workforce and economic development. We offer new, emerging, and customized **curriculum** at 11 locations: Abilene, Breckenridge, Brownwood, East Williamson County, Fort Bend County, Harlingen, Marshall, New Braunfels, North Texas, Sweetwater, and Waco.

What is Curriculum? Curriculum is the set of courses, lessons and academic content taught in a specific program or at the college.

In addition to our main campuses, we offer programs and customized training at partnership centers throughout the state. We serve students from more than 220 counties in Texas, and as a TSTC graduate, you may begin your career in a high-paying job across the state or continue your education at other colleges and universities.

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Our Mission and Your Success

Our statewide mission is to efficiently and effectively help Texas meet the high-tech challenges of today's **global economy**—the international system of trade and industry. We do this in partnership with business and industry, government agencies and other educational institutions.

What is the Global Economy? The global economy refers to the worldwide system of trade, business and industry that connects countries and businesses around the world.

We are proud of our high graduation rates and exceptional success our students find after they graduate. We serve a diverse community of individuals from many different cultural and **socioeconomic** backgrounds.

What does Socioeconomic mean? Socioeconomic refers to the combination of social and economic factors, such as income, education and occupation, that describe a person's background.

We serve you through traditional degree programs, short-term **continuing education**, and corporate training programs.

What is Continuing Education? Continuing education consists of short-term courses or programs designed for adults to learn new skills or update existing ones for their careers, often without seeking a full degree.

Our Strengths

One of our greatest strengths is our emphasis on hands-on learning. We maintain strong relationships with business and industry leaders to provide you with state-of-the-art laboratories and residential campuses. Everything we do is guided by a student-centered philosophy—which means you are at the heart of every decision we make.

What We Believe

We believe in you and your desire to be a responsible and productive citizen. We believe that technology is a force to be explored and used in a productive and responsible manner for the benefit of all people. Most importantly, we believe you should be provided with the educational opportunity to learn the skills necessary to perform meaningful work.

We want to help you pursue your goals as a responsible citizen contributing to the success of your family, community, state, nation and the world.

04. Locations

From north to south and everywhere in between, we have a campus that's just right for you. With **state-of-the-art** technology training and the skills to lead you to your next career, we have a location to fit your needs.

What is State-of-the-Art? State-of-the-art means we use the most modern and advanced technology, equipment, and teaching methods available to prepare you for the workforce.

With 11 locations throughout Texas, we are right where you are. Our campuses are located in Abilene, Breckenridge, Brownwood, East Williamson County, Fort Bend County, Harlingen, Marshall, New Braunfels, North Texas, Sweetwater and Waco.

In addition to our main campuses, we offer programs and **customized training** at **partnership centers** throughout the state.

What is Customized Training? Customized training is specialized instruction that we tailor specifically to meet the needs of a particular industry or business.

What are Partnership Centers? Partnership centers are facilities that we share with other organizations, such as other colleges or community groups, to provide you with easier access to our programs.



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[We invite you to come see for yourself!](#)

Campus Locations [Abilene East](#)

2082 Quantum Loop
Abilene, TX 79602

[Abilene Downtown](#)

650 E. Highway 80
Abilene, TX 79601

[Breckenridge](#)

415 N. Breckenridge
Breckenridge, TX 76424

[Brownwood](#)

301 Main St.
Brownwood, TX 76801

[Fort Bend County](#)

26706 Southwest Freeway
Rosenberg, TX 77471

[Harlingen](#)

1902 N. Loop 499
Harlingen, TX 78550

[Marshall](#)

2650 East End Blvd., South
Marshall, TX 75672

[New Braunfels](#)

TSTC & FAME Center

2189 FM758

New Braunfels, TX 78130

[North Texas](#)

119 North Lowrance
Red Oak, TX 75154

[Sweetwater](#)

300 Homer K. Taylor Drive
Sweetwater, TX 79556

[Waco](#)

3801 Campus Drive

Waco, TX 76705

[Williamson County](#)

1600 Innovation Blvd (CR 108)
Hutto, TX 78634

05. Governance and Accreditation

We are governed by a nine-member [Board of Regents \(BOR\)](#) and operate under the leadership of our Chancellor and **Chief Executive Officer**, whom the board appoints.

What is the Board of Regents (BOR)? The Board of Regents is the governing body appointed by the Governor of Texas to oversee the management and operations of the TSTC system.

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Who is the Chancellor and Chief Executive Officer? The Chancellor is the top leader of the entire TSTC system, responsible for making sure the college runs smoothly and follows the board's directions.

Board members are appointed by the governor to six-year **staggered terms** and are **confirmed** by the state Senate.

What are Staggered Terms? Staggered terms mean that the members' terms end at different times rather than all at once. This helps ensure that there are always experienced members on the board to provide steady leadership.

What does it mean to be Confirmed? To be confirmed means to be officially approved by a legislative body, such as the state Senate, after being appointed to a position.

The Board meets a minimum of four times a year to enact policies and take actions that support the successful operation and management of the college.

TSTC Chancellor and Chief Executive Officer

Michael L. Reeser

TSTC Administration **Executive Vice Chancellor & Chief Operating Officer**

Jonathan Hoekstra **Senior Vice Chancellor & Chief Innovation Officer**

Michael Bettersworth **Vice Chancellor & Chief Financial Officer**

Chad Wooten **Vice Chancellor & Chief Human Resources Officer**

Pamela Mayfield **Vice Chancellor & Chief External Relations Officer**

Cledia Hernandez **Vice Chancellor & Chief Campus Services Officer**

Kevin Semien **Vice Chancellor & Chief Information Officer**

Dale Bundy

TSTC Board of Regents

Ron Widup, Chair

Robb Misso, Vice Chair

Dr. Tiffany Tremont, Ex Officio

Keith Honey

Lizzy de la Garza Putegnat

Kathy Stewart

Curtis Cleveland

Ron Rohrbacher

Eric Beckman

Accreditation

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Texas State Technical College (TSTC) is **accredited** by the **Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)** to award **associate degrees**. TSTC also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of TSTC may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling 404-679-4500, or by using information available on the SACSCOC's website (www.sacscoc.org).

As an institutional accreditor, SACSCOC affirms that an the entire college—not just individual programs—meets established educational standards. The procedure for filing a complaint against the College is detailed on SACSCOC's [Complaints Against SACSCOC or its Accredited Institutions Policy Statement](#). Filing a complaint with SACSCOC should only address significant, documented, alleged noncompliance with the SACSCOC accreditation standards, policies or procedures. SACSCOC expects individuals to attempt to resolve the issue through all means available to the complainant, including following the institution's own published [grievance procedures](#), before submitting a complaint to SACSCOC.

What is Accreditation? Accreditation is a formal recognition that a college and/or program of higher education meets specific standards of quality and excellence. It ensures that the education you receive at TSTC is respected by employers and other colleges.

TSTC is also a member of the American Association of Collegiate Registrars and Admissions Officers. Many programs also hold specialized accreditation and/or affiliations with professional agencies.

The following programs are accredited by the:

American Dental Association Commission on Dental Accreditation (CODA)

- Dental Hygiene

Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)

- Health Information Technology

Accreditation Review Council on Education in Surgical Technology and Surgical Assisting in collaboration with Commission on Accreditation of Allied Health Education Programs (CAAHEP)

- Surgical Technology

Committee on Accreditation for Emergency Medical Services (EMS) Professions in collaboration with Commission on Accreditation of Allied Health Education Programs (CAAHEP)

- Paramedic

Automotive Service Excellence Education Foundation

- Auto Collision & Management Technology (excludes Tesla ATC specialization program)
- Automotive Technology (excludes Tesla ATC specialization program)

The following programs are approved by the:

Texas Board of Nursing

- Registered Nursing (Associate Degree Nursing)
- Vocational Nursing

Texas Department of State Health Services

- Emergency Medical Services

The following programs are certified by the:

Federal Aviation Administration (FAA)

- Aircraft Airframe Technology
- Aircraft Powerplant Technology
- Aircraft Pilot Training

The following programs are endorsed and/or recognized by the:

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North American Process Technology Alliance

- Process Operations

Texas Skills Standards Board

- Biomedical Equipment Technology
- Cybersecurity
- Electrical Lineworker Technology
- Process Operations
- Wind Energy Technology

The following program is designated by the:

National Security Agency (NSA) as a National Center of Academic Excellence in Cyber Defense (NCAE-DC)

- Cybersecurity

06. Equal Opportunity Statement

Our policy at Texas State Technical College (TSTC) is to provide **equal employment opportunities** to everyone—including applicants, admissions applicants, employees, student workers, work-study employees and students—without regard to race, color, religion, gender, national origin, age, genetic information, disability, sexual orientation, sexual preference, veteran status or any other basis that violates any applicable federal, state or local law.

What are Equal Employment Opportunities? Equal employment opportunities are fair practices that ensure everyone has the same chance at a job or education, without being treated differently based on irrelevant characteristics.

Our Commitment to You

We are committed to building and maintaining a learning and working environment that reflects a wide range of perspectives and enhances opportunities for all, including all qualified individuals with disabilities. As part of this commitment, our policies and procedures ensure that you are not subjected to **discrimination** or denied full and equal access to programs or services we offer.

What is Discrimination? Discrimination is the unfair or prejudicial treatment of people based on characteristics such as disability, race or sex.

Accommodations and Support

We provide **reasonable accommodations** if you choose to **self-disclose** your needs to the designated offices. This is done in accordance with [Title 45 Code of Federal Regulations Part 84](#) which is the regulation implementing [Section 504 of the Rehabilitation Act of 1973](#).

What are Reasonable Accommodations? Reasonable accommodations are adjustments or supports provided to help individuals with disabilities participate fully in school or work.

What does it mean to Self-Disclose? To self-disclose means to voluntarily share information about a disability with the college so that we can provide the support you need.

If you are a student and require reasonable accommodations, please contact the [TSTC Access and Learning Accommodations office](#). If you are an employee, you can contact the [TSTC Human Resources office](#).

07. Instructional Philosophy

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At TSTC, we are committed to training you for tomorrow's careers while strengthening the **economic competitiveness** of Texas and improving the lives of its people.

What is Economic Competitiveness?

Economic competitiveness refers to the ability of our state's businesses and workforce to succeed and grow in comparison to other states and countries.

Our instructional philosophy is rooted in "learning by thinking and doing" — a hands-on approach that ensures you gain both the knowledge and the practical skills you need to succeed.

Industry-Driven Curriculum

We keep our curriculum relevant by continuously seeking and fostering input from **industry partners**. This means the programs you study are designed around what Texas employers actually need, so when you graduate, you're ready to step into your career with confidence.

Who are Industry Partners? Industry partners are businesses and professionals in the workforce who collaborate with us to ensure you are learning the exact skills employers are looking for.

Real-World Expertise and Hands-On Learning

Our faculty bring real-world expertise to their teaching. They don't just know the theory, they've worked in the field and understand what it takes to thrive in your chosen career. Combined with our state-of-the-art facilities and equipment, you'll have significant hands-on learning opportunities that prepare you with the technical knowledge, skills and abilities employers are looking for.



08. The TSTC Foundation

[The TSTC Foundation](#) supports all of our campus locations, our students, career programs, faculty and staff. As **501(c)3 not-for-profit organization** the Foundation exists solely to benefit you and the college.

What is a 501(c)3 not-for-profit organization? A 501(c)3 not-for-profit organization is a type of charitable organization recognized by the federal government that operates exclusively for educational, charitable or other public benefit purposes rather than to make money for owners.

The Foundation provides [scholarships](#), **emergency aid**, tools and equipment to address your critical needs as a student. It also provides funding to enhance our ability to deliver new and emerging technical programs that support the Texas workforce.

What are scholarships? Scholarships are financial awards given to help you pay for your education. Unlike student loans, scholarships are gifts that you do not have to pay back. You may be eligible to earn scholarships based on academic merit, financial need or other criteria set forth by scholarship donors.

What is emergency aid? Emergency aid refers to financial assistance provided to students facing unexpected hardships. This assistance may come in the form of grants (which do not need to be repaid) or emergency loans (which must be repaid according to specific terms and conditions). If you receive emergency financial assistance, make sure you understand whether it is a grant or a loan and what your repayment obligations are.

This support helps empower your success, strengthens the technology in our labs, and gives us the flexibility to address the priorities of the college as we respond to the state's growing workforce demands. Everything the Foundation does is

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designed to help you succeed in your education and career.



09. Industry Advisory Committees

To make sure we are teaching you exactly what you need to succeed in your career, we work with Industry Advisory Committees. These are groups of experts and professionals currently working in the fields you are studying. They guide our curriculum by advising us on the latest skills, knowledge, and abilities that employers expect from you.

Effective Industry Advisory Committees create and maintain strong partnerships between us and the industries and communities we serve. This ongoing conversation provides valuable, real-world insight into the workplace you will enter after graduation. This partnership ensures we share a collective responsibility for preparing you for your place in today's workforce and society.

04. Student Recruitment

01. Student Recruitment

Campus Tours

We want you to have every opportunity to see yourself succeeding here. Whether you are a **prospective student**, an **applicant**, or a supportive family member or friend, we welcome you to tour a campus near you! We encourage you to visit and explore your program of choice before you officially **enroll**.

What is a Prospective Student? A prospective student is someone who is considering attending TSTC, but has not yet applied or started the registration process.

What is an Applicant? An applicant is someone who has already started the process of joining us by filling out an [application to TSTC](#).

What does it mean to Enroll? To enroll means to officially register for classes and join the college community as a student.

Schedule Your Visit

Seeing our facilities and meeting our instructors in person is a great way to decide if TSTC is the right fit for your career goals. To schedule your tour, please visit: events.tstc.edu.

05. Enrollment Information

01. Admissions and Enrollment Requirements

Admissions and Enrollment Requirements

At Texas State Technical College (TSTC), we want to help you reach your goals. Our policy is to admit you if you declare

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your intention to enroll with us. You can join your chosen program once you successfully complete all **enrollment and program entrance requirements**. To help you through this process, you may work with an [Admissions Advisor](#) or an [Enrollment Coach](#).

"Equal opportunity is afforded within TSTC to all applicants for admission without regard to race, color, religion, gender, national origin, age, genetic information, disability, or veteran status." We comply with the [Texas Education Code \(TEC\) §51.3525](#), which is titled "Responsibility of Governing Boards Regarding Diversity, Equity, and Inclusion Initiatives." To assist you, the requirements of and penalties for violating TEC §51.3525 are further elaborated and detailed in the [DEI Prohibition Statement](#) found on the [TSTC Regulatory Signage Page](#)

If you disagree with an admission decision, you may submit a written appeal to the [Student Rights and Responsibilities Office](#).

Admissions Categories

We welcome you to TSTC as a regular student under any of the following conditions:

High School Graduate:

You can be admitted by showing proof that you graduated from an **accredited** high school. You will need to submit your **official high school transcript**. If you were homeschooled, we will admit you once you submit a notarized record of your completed high school work and the date you finished. This work must meet the minimum requirements for high school completion set by the [Texas Education Agency \(TEA\)](#).

College Transfer:

We will admit you if you have previously attended an **accredited college** or university. A transfer student will need to provide official transcripts from all previously attended colleges or universities. Transcripts are considered "official" when they are signed by the registrar and bear the seal of that college or university.

Note: We might also need your high school transcripts to process your financial aid.

General Education Development Test (GED):

We will admit you if you have successfully completed the GED, a recognized GED equivalent certified by a state education agency, or a state-authorized examination that the state recognizes as the equivalent of a high school diploma. You just need to provide your **official GED score report or scores** from a state-authorized examination that the state recognizes as the equivalent of a high school diploma.

Individual Approval Categories/Exceptional Admissions

If you do not qualify under the regular categories above, you may be granted **exceptional admission**.

You may be admitted under one of the two following Individual Approval categories:

Individual Approval A:

- If you are 16 or older and graduated from an unaccredited high school.
- If you are 17 or older and are currently preparing for a high school equivalency exam or are **concurrently enrolled** in high school or homeschool. You will need a recommendation from your counselor or parent.
- If you are 18 or older and do not have a high school diploma or Certificate of High School Equivalency (CHSE)/GED.

Individual Approval B:

- If you are a **Dual Credit** student who is currently in high school and do not yet have a diploma or GED.

Enrollment Procedures

Ready to get started? Here are the steps you need to follow:

1. [Submit an Application for Admissions.](#)

- Complete the **Core Residency Questionnaire** which must be submitted prior to enrollment to determine your eligibility for classification as a Texas resident. [In accordance with state law](#), students identified as eligible for Texas residency must provide documentation of lawful presence to qualify for in-state tuition.

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Students who are unable to provide documentation demonstrating lawful presence in the United States are classified as a **non-resident**.

- o Declare your intent to enroll as a degree-seeking or non-degree-seeking student.
- o Complete the application section about felony charges. If you answer "Yes," you will need to complete a [Supplemental form](#) and may need to provide more documents.

2. Turn in the documents required for your admission category (listed above).
3. Provide proof of your immunizations (vaccinations) as required by law.
4. Provide proof you meet specific entry requirements for your chosen program.
5. Meet testing requirements by:
 - o Submitting your **TSI Assessment** results; OR
 - o [Submitting proof that you are exempt from this test](#); OR
 - o Taking the TSI Assessment

Note: We encourage all new students to attend [New Student Orientation!](#)

If you submit documents but do not register for classes, we will keep your records in the Office of the Registrar for one year. After one year, we discard those records unless you tell the Enrollment Center you are still interested in attending. All documents submitted become the property of TSTC, and we cannot return them to you.

Former TSTC Students

Welcome back! If you previously took college credit classes at TSTC but have been away for more than one year, we need you to reapply by following these steps:

- Complete a new admissions application including the Core Residency Questionnaire.
- Meet current testing requirements.
- Provide proof of your immunizations (vaccinations) as required by law.
- Submit official transcripts from any other colleges you attended while you were away, or provide your GED or high school transcripts.

Note: If you return after a break of more than one year, we may need to update your program of study if the **curriculum** or the **modality** has changed.

Military Service Members

We comply with [20 U.S.C. 1091c](#) and other state guidelines for the readmission of service members called or ordered to active duty. If you are a military service member (whether voluntary or involuntary) called to serve on active duty in the Armed Forces, including service by members of the National Guard or Reserve, for a period of more than 30 consecutive days under a call or order to active duty of more than 30 days, you are entitled to be promptly readmitted with the same academic status you had before, provided:

- Your cumulative absence from instruction for active duty service is not longer than five years.
- You (or an appropriate officer of the Armed Forces or official of the Department of Defense) give advance written or verbal notice of such service to the registrar's office.

Note: If your original program is no longer available or is in **ateach-out plan**, we will help you find the closest available program. Service members may contact the Office of the Registrar for additional information.

Campus Immunizations

If you are 22 years old or younger and attending classes on campus, [Texas law requires you to get the Bacterial Meningitis vaccination](#). Some specific programs may require additional vaccinations or boosters. We encourage you to contact the program you are interested in for more details.

More information about our enrollment requirements can be found listed in our Statewide Operating Procedures [FS 4.07 ADMISSION OF STUDENTS](#).

Definition Guide:

What are Enrollment Requirements? Enrollment requirements are the specific steps and documents, such as filling out applications and submitting transcripts, that you must complete before you can officially start your classes.

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Who is my Admissions Advisor? An Admissions Advisor is a specialist who helps you complete your application and meet all enrollment requirements. Admissions Advisors are assigned to students based on their campus location and program of study.

Who is my Enrollment Coach? An Enrollment Coach is a person who guides you through the registration and planning process when you are ready to enroll in courses. Enrollment Coaches are assigned to students based on their campus location and program of study.

What does Accredited mean? An accredited school is one that has been officially recognized by an authorized agency as meeting specific academic standards.

What is an Official High School Transcript? An official high school transcript is a permanent record of your classes and grades that includes the date of high school graduation and is sent directly from the school or delivered in a sealed envelope.

What are Official Transcripts? Official transcripts are the formal records of your grades and courses. They are only considered "official" when they are signed by the registrar and bear the seal of that college or university and have been received through the mail, hand delivered in a sealed envelope or received through Standardization of Postsecondary Education Electronic Data Exchange (SPEEDE).

What is an Official Score Report? An official score report is the formal document issued by the testing agency that shows your passing scores.

What is Exceptional Admission? Exceptional admission is a special process that allows you to enroll even if you don't meet the standard high school or GED requirements, based on specific individual circumstances.

What does Concurrently Enrolled mean? Being concurrently enrolled means you are taking college classes at the same time you are still finishing your high school or homeschool requirements.

What is Dual Credit? Dual credit is a program that allows high school students to take college-level courses and earn credit for both high school and college at the same time.

What is the Core Residency Questionnaire? These are specific questions used to determine if you are a resident of Texas, which can affect the cost of your tuition.

What is a Non-Resident? A non-resident is a student who does not meet the legal requirements to be classified as a Texas resident for tuition purposes. Non-residents typically pay higher tuition rates than Texas residents.

What is the TSI Assessment? The Texas Success Initiative (TSI) Assessment is a test designed to determine if you are ready for college-level course work in reading, writing, and mathematics.

What is Curriculum? Curriculum is the set of courses, lessons and academic content taught in a specific program or at the college.

What is Modality? Modality refers to the way a course is delivered, such as in-person, online or a hybrid of both.

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What is Active Duty? Active duty is full-time service in the military, such as being deployed or called to serve in the National Guard or Reserve for a specific period. To return, simply email registrars@tstc.edu with your intent to re-enroll and the semester you wish to start. No additional application is needed. We may request documentation verifying your service period. We will readmit you to the same program you were in before your service.

What is a Teach-Out Plan? A teach-out plan is a temporary process to help the last group of students finish a closing program.

02. Academic Fresh Start

[Texas Education Code \(TEC\) §51.931](#), called the "Right to an Academic Fresh Start," gives you the opportunity to start over academically if you're a **Texas resident**. If you completed coursework 10 or more years before the date you plan to enroll at TSTC, you can apply for admission without having that older coursework considered in the admission decision. This allows you to begin a new course of study with a clean academic record.

Here's what you need to know about Academic Fresh Start:

1. **This is an all-or-nothing option.** You cannot pick and choose which courses to ignore and which courses to count. This option clears only your academic record. If you choose the "Academic Fresh Start" option, you do not receive any credit for any courses taken 10 or more years prior to your re-enrollment. This means that:
 - o Courses taken previously cannot be used to fulfill new **prerequisite** requirements.
 - o Courses taken previously cannot be counted toward a new degree.
 - o Courses taken previously will not be counted in your **GPA** calculation.
2. You must still complete the usual admissions process, including providing information on all colleges or universities you previously attended and submitting official copies of transcripts from all schools attended.
3. Once you have claimed the "Right to an Academic Fresh Start" provision and enrolled, **the provision cannot be reversed.**

Note: "Academic Fresh Start" does not apply to the [Standards of Academic Progress \(SAP\)](#) for Financial Aid. Therefore, you may not qualify for financial aid based on your prior academic performance.

Definitions:

What does it mean to be a Resident of Texas? A resident of Texas is someone who has established their permanent home in the state and meets specific legal requirements, such as living in Texas for a certain period of time.

What is Coursework? Coursework refers to the classes and assignments you completed at a college or university.

What is a Prerequisite? A prerequisite is a course you must complete before you can enroll in a more advanced course. It ensures you have the foundational knowledge needed to succeed.

What is GPA? GPA stands for Grade Point Average. It is a numerical calculation that represents your overall academic performance based on the grades you earn in your courses.

What are Standards of Academic Progress for Financial Aid? Standards of Academic Progress (SAP) are the requirements you must meet to remain eligible for federal and state financial aid. These standards measure your academic performance, including your GPA and the pace at which you complete your coursework, regardless of whether you use Academic Fresh Start for admission purposes.

03. Registration for Classes

After you meet the enrollment requirements—or are selected for a program with selective admissions criteria—you may register for **credit classes**. Work with your **Enrollment Coach** or faculty advisor to review the TSTC course schedule and get more information about available classes.

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Please note: Registration for **Accelerated Training Solutions** programs follows a different process than the one described in this section. If you're interested in those programs, contact [Accelerated Training Solutions](#) for more information.

Change of Personal Information

You are responsible for keeping your personal information accurate on your educational records to ensure you receive important communication from college departments.

You can make official changes to your personal information in **Workday** or at the Enrollment Center on your campus. Some changes require additional documentation, as outlined below. We will process all of your changes immediately upon receipt.

Name Changes

You can submit a name change through Workday or at the Enrollment Center. You must provide legal documentation, such as:

- Original marriage license or certificate
- Passport
- Court order
- Divorce decree
- Birth certificate
- Naturalization papers

Important: A driver's license or Social Security card will not be accepted as documentation for a name change.

If you are a graduation candidate, you must complete your name change by the **census date** of the semester in which you are eligible to graduate.

Social Security Number

You can submit your Social Security number at the Enrollment Center. Your request must be accompanied by an original Social Security card and a photo ID as documentation.

Definitions

What are Credit Classes? Credit classes are classes that count toward your academic degree or certificate.

What is an Enrollment Coach? An Enrollment Coach is a TSTC staff member who helps guide you through the registration process, answers questions about course options, and supports you in planning your academic schedule.

What is Accelerated Training Solutions? These are short-term classes focused on specific job skills, not a full degree.

We reserve the right to cancel a scheduled class if not enough students signed up to take the course, instructors or physical spaces are limited, or other institutional needs arise. If your class is canceled, we will notify you and issue a refund for the cancelled class.

What is Workday? Workday is TSTC's online Student Information System where you can view and update your personal information, register for classes and access other student services.

What is the Census Date? The census date is the official date used to determine enrollment status, finalize course rosters and set financial obligations for the semester. Check the [Academic Calendar](#) to see the Official Census Date for the semester.

04. Restricted Admission Programs

While most programs at TSTC follow the standard admission process, some require you to complete additional steps before you can officially enroll. These are known as **Restricted Admission** programs, and they exist because certain industries and professions have specific legal, safety or licensing standards set by state law, accrediting bodies or industry regulators.

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These extra requirements ensure you are prepared and eligible to begin hands-on training, clinical work or fieldwork in your chosen career.

The additional requirements may include:

Additional immunizations: Some healthcare and public safety programs require proof of vaccinations to protect you and others in clinical or fieldwork settings.

Occupational licenses (HB1508): Certain programs require you to obtain a state-issued occupational license before or during your studies. [House Bill 1508 \(HB1508\)](#) is a Texas law that governs the requirements for these licenses.

Exams: You may need to pass specific entrance exams or assessments that demonstrate your readiness for the program.

Criminal background checks: Many programs, especially those in healthcare, education and public safety, require a criminal background check to ensure you meet industry standards for working with vulnerable populations or in regulated environments.

Drug screenings: Some programs require drug testing as part of their admission or clinical placement requirements.

Prerequisite courses: You may need to complete certain courses before you can begin the program to ensure you have the foundational knowledge required for success.

What should you do next? Visit the specific program website for detailed information about the additional requirements for the program you are interested in. If you have questions or need guidance, reach out to an [Admissions Advisor or Enrollment Coach](#) who can help you understand the steps you need to take.

The following programs currently require additional steps for enrollment:

- o [Aircraft Pilot Training Technology](#)
- o [Auto Collision & Management Technology - Tesla specialization program](#)
- o [Automotive Technology - Chrysler & Tesla specialization programs](#)
- o [Biomedical Equipment Technology](#)
- o [Chemical Dependency Counseling](#)
- o [Dental Hygiene](#)
- o [Emergency Medical Services](#)
- o [Health Information Technology](#)
- o [Industrial Systems - Advanced Manufacturing Technology \(FAME only\)](#)
- o [Diesel Equipment Technology - John Deere](#)
- o [LVN to RN Transition Nursing Program](#)
- o [Vocational Nursing](#)
- o [Surgical Technology](#)

05. Dual Credit Courses

Our TSTC Dual Credit program provides a fantastic opportunity for you to earn college and high school credit simultaneously while you are still in high school! To participate, your high school must have an official partnership with TSTC through a **Memorandum of Understanding (MOU)**, and you must meet the applicable eligibility requirements to enroll in courses.

What is Dual Credit? *Dual Credit allows high school students to take college-level courses that count toward both their high school diploma and a future college degree or certificate, giving you a head start on your college education.*

What is a Memorandum of Understanding? *This is a formal agreement between your school and TSTC that outlines*

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how the partnership for Dual Credit programs will work.

Eligibility Requirements

To enroll in a TSTC dual credit course, you must:

1. Show that you are ready for college-level work by meeting the specific eligibility and testing requirements set by the state of [Texas in Rule 4.85 of the Texas Administrative Code](#)
2. Meet all TSTC admissions requirements (see the Admissions section of this Handbook); and
3. Meet all published prerequisite requirements designated for your chosen course(s).

Selecting Your Pathway

If you are eligible for dual credit courses, you will work with your high school advisor or counselor to choose a dual credit technical pathway. You may only select from pathways that have been previously approved and designated on your high school's Pathway Offering Form.

Your Responsibilities

As an active dual credit student, you are expected to follow all the rules and regulations outlined in this catalog and Student Handbook, just like any other TSTC student.

For more information, visit the [Dual Credit website](#) or contact the Dual Credit Office by email at dual.enrollment@tstc.edu.

More information about our dual credit program can be found listed in our [Statewide Operating Procedures ES 2.19 DUAL CREDIT PARTNERSHIPS BETWEEN TSTC AND SECONDARY SCHOOLS](#).



06. Veteran Services

Our Veteran Services team is here to serve as your centralized point of contact to help you—our active duty members, veterans and family members—navigate college resources to ensure you have a successful college experience. We serve as **advocates** for student veterans and military-connected students by helping connect them with college offices, community resources and the U.S. Department of Veterans Affairs (VA).

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Veteran Services Support

The following services are available through Veteran Services:

- Assistance with FAFSA, admissions, Hazlewood, and GI Bill® applications
- Guidance navigating college policies and procedures
- Veteran education benefits information and support
- Referrals to campus and community resources
- Veteran Services provides educationally related printing, scanning, copying, and faxing assistance for veterans and eligible dependents in support of enrollment, certification, academic, and VA benefits processes
- Scholarship search and application assistance
- Referral to campus Advocacy and Resource Center services
- Tutoring support and referrals
- Computer lab access and support
- Academic advisement support
- Assistance with military transcript evaluation and transfer credit review

What is an Advocate? An advocate is someone who supports you and speaks up for your interests to make sure you get the help and benefits you deserve.

Veterans Guide For Success **Step 1: Apply for Admission and Financial Aid**

Students should complete the required admissions process and confirm residency status with the Enrollment Center.



Veterans whose Home of Record is Texas and who separated from military service within the previous 12 months may be asked to submit an unredacted copy of their **DD Form 214** to assist with residency review and benefit processing.

Service members, veterans and dependents are encouraged to complete the **Free Application for Federal Student Aid (FAFSA)** to determine eligibility for grants, loans, work-study, and other financial assistance programs.

What is a DD214? The DD Form 214 is the Certificate of Release or Discharge from Active Duty and serves as official documentation of military service and discharge characterization.

What is the FAFSA? The Free Application for Federal Student Aid (FAFSA) is the application used to determine eligibility for federal financial aid programs. For additional information regarding financial assistance, please visit the institution's Financial Aid website.

Step 2: Apply for your GI Bill® and/or Texas Hazlewood Act

Students may apply for VA education benefits online through the [U.S. Department of Veterans Affairs](https://www.va.gov) website.

Common application forms include:

- VA Form 22-1990 — Veterans using Chapters 30, 33, or 1606
- VA Form 28-1900 — Veteran Readiness and Employment (Chapter 31)
- VA Form 22-1990E — Dependents using transferred Post-9/11 GI Bill® benefits
- VA Form 22-5490 — Dependents using Chapter 35 Dependents' Educational Assistance (DEA)

Processing times for **Certificates of Eligibility (COEs)** vary depending on the Department of Veterans Affairs.

Students should submit a copy of their **Certificate of Eligibility (COE)** to Veteran Services once received.

What is a Certificate of Eligibility (COE)? A Certificate of Eligibility (COE) is an official document issued by the Department of Veterans Affairs that outlines a student's eligibility for VA education benefits and remaining entitlement.

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Information regarding the Texas Hazlewood Act is available through the [Texas Veterans Commission Hazlewood Program](#) website. Students must provide required applications and supporting documentation to Veteran Services for review and processing.

What is the Hazlewood Act? The Hazlewood Act is a Texas state education benefit that may exempt qualified veterans, spouses and dependent children from certain tuition and fee charges at public institutions of higher education in Texas for up to 150 credit hours.

Step 3: Submit required documentation

Students using VA education benefits may be required to submit the following documentation to Veteran Services:

- Certificate of Eligibility (COE)
- Unredacted DD Form 214 showing character of discharge/service (Member 4 or Service 2 copy if available)
- Valid government-issued photo identification
- Official military transcripts from the **Joint Services Transcript (JST)** system or Community College of the Air Force (CCAF)
- Official college or university transcripts

What is a Joint Service Transcript (JST)? A Joint Services Transcript (JST) documents military training and experience in a format colleges may use to evaluate potential transfer credit.

Dependents using Chapter 35 or Chapter 33 Transfer of Entitlement benefits may also be required to submit:

- Certificate of Eligibility (COE)
- Sponsor's DD Form 214 showing character of discharge/service, if applicable
- Valid government-issued photo identification
- Official college or university transcripts

Hazlewood Tuition Exemption

Texas Higher Education Coordinating Board rules authorize TSTC to grant certain tuition and fee exemptions and waivers to qualified resident and nonresident students. Additional information regarding eligibility requirements is available through the [Texas Veterans Commission Hazlewood Program](#) website.

Effective Fall 2014, Texas Senate Bill 1210 requires students receiving certain exemptions and waivers, including the Hazlewood Act exemption, to meet Financial Aid Satisfactory Academic Progress (SAP) requirements.

Eligible students using Chapter 33 Post-9/11 GI Bill® benefits may also use the Hazlewood Act exemption to cover eligible tuition and fee balances not paid by the VA.



Students should enroll in classes as early as possible and submit required Hazlewood documentation promptly to help avoid delays in processing.

Submission of documentation does not guarantee eligibility for federal or state education benefits. Eligibility determinations are made in accordance with applicable federal and state laws, regulations and institutional policies.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information regarding VA education benefits is available at the [official GI Bill website](#).

Other Military Education Benefits

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TSTC also accepts other military-related education benefits, including:

- Department of Defense Tuition Assistance (TA)
- [Texas State Tuition Assistance Program](#)
- [MYCAA Scholarship Program](#)

Contact Information

Phone: 888-878-2003

Email: veteranservices@tstc.edu

07. Texas Success Initiative (TSI) Requirements

The [Texas Success Initiative \(TSI\) is a state law](#) that requires all students entering a Texas public college to be assessed for **college readiness** in reading, writing and mathematics. We want to make sure you have the foundational skills needed to succeed in your program from day one.

What is College Readiness? *College readiness means you have the skills necessary to pass college-level courses without needing extra help.*

Do I Have to Take the TSI Assessment?

If you are planning to earn a Level II Certificate or an Associate of Applied Science Degree (42 hours or more), you generally need to meet TSI requirements. However, you might be exempt (meaning you don't have to take the test) if:

- You have high enough scores on the ACT, SAT, GED, or STAAR tests.
- You have already attended and completed coursework, been determined to be college ready or earned an associate degree or higher from another accredited college.
- You are a veteran or active-duty member of the military.
- You are an certified emergency worker such as a Emergency Medical Technician, Fire protection personnel, or Peace officer.

For the latest exemptions, visit the [TSI Testing and Exemptions](#) webpage.

What is the TSIA2?

The TSIA2 is the actual test you will take. It stands for the TSI Assessment 2.0. It measures your skills in two main areas:

1. **ELAR:** This stands for English, Language Arts and Reading. It covers reading comprehension and writing.
2. **Mathematics:** This covers your math skills.

Before you take the test you must participate in a mandatory [Pre-Assessment Activity \(PAA\)](#) unless already completed. The PAA aims to prepare you for the actual test by providing practice test questions and helpful tips.

TSI College Readiness Standards

The following information provides the minimum passing scores on the TSIA2 taken Jan. 11, 2021, or after, which are valid for five years from the date of test.

ELAR (English, Language Arts and Reading):

- Essay score of 5 or higher combined with a Multiple-choice score of 945 or higher; or
- Essay score of 5 or higher combined with a Multiple-choice score of 910-944 and a **Diagnostic score** of 5 or higher

Math:

- Multiple-choice score of 950 or higher; or
- Multiple-choice score of 910-949 combined with a **Diagnostic score** of 6

What is a Diagnostic Score? *A diagnostic score comes from a shorter, follow-up section of the test. If your multiple-choice score falls in the middle range (910-944 for ELAR or 910-949 for Math), you'll answer a few additional questions. Your diagnostic score can still qualify you as college ready.*

What Happens If I Don't Pass?

If your scores aren't quite where they need to be yet, it doesn't mean you can't go to college. It just means we will provide

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you with extra support. You will work with an **Enrollment Coach** to create a personalized Academic Success Plan.

Who is my Enrollment Coach? *An Enrollment Coach is a dedicated staff member who helps you plan your classes. If you aren't college ready yet, they will help you sign up for developmental classes or tutoring to help you build your skills so you can move into college-level work quickly.*

TSI Advisement

If you do not meet TSI standards, you must meet with your Enrollment Coach to build an individualized plan for Academic Success. This plan is developed for you according to your specific needs and may include enrollment in developmental courses, tutorials, laboratories, and/or other non-course-based activities to prepare you for college-level coursework. The plan will specify the appropriate measure for determining your college readiness. If available, your individualized plan may include making arrangements to retake the TSIA2 exam. For more information, please visit the Enrollment Center.

What are Developmental Courses? *Developmental courses are classes designed to help you build specific skills in reading, writing or math before you move into college-level work. These courses prepare you for success in your program.*

TSI Testing Schedule

You can take the TSIA2 at one of our [Testing Centers](#) on a campus near you. You can check with the Testing Center on your campus for specific dates and times. The TSIA2 is computer-based and can only be offered in a paper format for students with documented disabilities. To arrange a disability accommodation, please contact [Access and Learning Accommodations](#) at adarequest@tstc.edu at least two weeks before your test date. Late requests will be considered but cannot be guaranteed.

College-Level Courses

We have designated courses to satisfy requirements with TSI standards. If you transfer from **nationally accredited** institutions of higher education with grades of D or higher in these courses (or equivalents), you are determined to be "college ready." You must submit official transcripts indicating successful completion of the course(s) for review. For more information, please visit the [Enrollment Center](#).

What does Nationally Accredited mean? *Nationally accredited institutions are colleges or universities that have been reviewed and approved by one of the [accrediting agencies recognized by the U.S. Department of Education](#). This ensures the quality and transferability of your credits.*

For more information about the Texas Success Initiative, you can visit the [Texas Higher Education Coordinating Board website](#).

06. Paying for College

01. Tuition & Fees

A college education is one of the most important investments you can make. We at TSTC are committed to providing access to everyone who can benefit from such an education.

The cost of attending TSTC varies depending on several factors, such as your residency status, whether or not you live on campus, your program of study, and any other services you may need. The Financial Aid section of this catalog defines the types of financial aid that may be available to help pay these costs. This assistance can help provide the financial support you need for tuition, housing, books and other educational items. Keep in mind, it is not intended to completely fund your education.

The tuition and fees information in this catalog is subject to change without notice.

Tuition

Your tuition is determined by your residency status, the number of hours you take, the type of course and/or program you choose, and whether your courses are for college credit, continuing education or workforce training. Tuition rates are subject to change on a semester-by-semester basis as approved by the Board of Regents.

What is the Board of Regents? *The Board of Regents is the governing body that oversees TSTC and makes decisions about policies, budgets and tuition rates.*

Residency Classifications

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A residency classification is the status assigned to you that determines whether you qualify for in-state (Texas resident) tuition rates or must pay out-of-state (non-resident) tuition rates.

Texas Resident:

- You have established a **legal domicile** in and have lived in Texas for the past 12 months.
- You are a person who graduated from a Texas high school and lived in Texas for at least 36 months prior to graduating from high school and 12 months before enrolling into TSTC.
- You can also be a dependent whose parent has lived in Texas for the last 12 months before the census date of the academic semester during which you are enrolling at TSTC.

Nonresident:

You are a person who has not lived in Texas for the past 12 months before the date of registration.

What is a Legal Domicile? *Legal domicile means the place where you have your permanent home and where you intend to return whenever you are away.*

Student Payments

Your charges for tuition and fees are due and payable by the [dates published](#) each semester to ensure that your schedule is not affected. You may pay all tuition and fees using cash, check or credit card at the Student Accounting office, or online through your OneTSTC account. Please note that checks are not accepted online.

Note: TSTC may delete your classes for nonpayment, but several factors can prevent your classes from being deleted. Therefore, if you decide not to attend, it is your responsibility to drop your classes by submitting a drop request through **Workday** prior to the established deadline. Failure to drop by the established deadline can result in you being financially and academically responsible for those classes.

The Installment Payment Plan, [Emergency Tuition Loan](#), or Student Financial Aid constitute additional forms of payment; however, all payment arrangements must be completed by the published deadlines to avoid **deregistration** from classes.

What is Workday? *Workday is TSTC's online Student Information System where you can view and update your personal information, register for classes, and access other student services.*

What is Deregistration? *Deregistration means being removed from your enrolled classes, typically due to nonpayment or failure to meet enrollment requirements.*

A Note on Refunds:

If your plans change and you need to drop a course or withdraw from the college, you may be eligible for a refund of your tuition and fees. To see the complete breakdown of refund percentages and how they apply to your specific classes, please visit the Refunds section of this handbook.

How to Enroll in a Payment Plan:

1. To enroll in a payment plan, please log in to your TSTC My Apps Dashboard on your computer using your TSTC OneID username and password by visiting login.tstc.edu.
2. Click on the "Touchnet Student Payments" tile to log in to **Touchnet**.
3. Please click on "Payment Plans" to enroll in a new payment plan.
4. To make a payment, please click on "Make Payment." You can also review your account information through this page.

[Please see cashiers](#) if you need assistance or if paying with cash. You can also use the Workday app on your Android smartphone/tablet or iPhone/iPad. If you're viewing this site from one of those devices, click the appropriate app store button to download the Workday app onto your device.

What is Touchnet? *Touchnet is our secure online payment portal.*

Past-Due Accounts

If you have a past-due unpaid balance, your account is considered **delinquent**. A student with a delinquent account may not register for subsequent terms or add classes in the current term. A delinquent account may be turned over to a collection agency, potentially affecting your personal credit rating. If your account is delinquent, you are responsible for the fees of any collection agency. These fees may be based on a percentage, with a maximum of 30 percent of the debt, along with all costs and expenses, including reasonable attorney fees that TSTC incurs in such collection efforts after our internal collection efforts have failed to result in the full payment of your account. We may send your account to an outside

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collection agency and report it to one or more credit bureau reporting services.

What does Delinquent mean? *Delinquent means that your account has an overdue balance that has not been paid by the required deadline.*

Bundled Pricing Bundled Pricing Option

Bundled Pricing is an optional form of payment where select new associate degree students can spread the cost of tuition, books, tools and supplies across the five semesters of their program. We divide the total cost of the program's tuition, books, tools and supplies evenly across the designated number of semesters it takes to finish your program.

To be eligible for bundled pricing, you must be a brand new student to TSTC with no previous college credits, and you must plan to pursue an associate degree in either: Automotive, HVAC, Business Management, or Advanced Manufacturing beginning in the Fall 2026 semester. You must also be classified as a state resident to be eligible. If you are transferring from another institution or have previous college credits, you are not eligible for bundled pricing.

Terms of Bundled Pricing

You must maintain **continuous enrollment** from the start of your degree until completion to continue in Bundled Pricing. In the event that you drop below full-time hours, experience a break in enrollment, change to another degree type, change to another major, withdraw from the college, or fall into either academic or financial aid suspension, then you forfeit the benefit of the Bundled Pricing program. If this happens you will then incur charges of any remaining tuition as outlined by TSTC, plus the remaining cost of all tools and supplies. Once you have signed the Bundled Pricing Agreement, made payment arrangements, and picked up your tools and supplies, you are locked into Bundled Pricing. You can opt into Bundled Pricing until the first day of class. For more details on the terms and conditions, refer to the Bundled Pricing section of this catalog.

What is Continuous Enrollment? *Continuous enrollment means taking classes without skipping semesters.*

\$1,000 Tuition Rebate for Certain Undergraduates

The tuition rebate program provides a financial incentive for you to complete a bachelor's degree efficiently, taking as few courses outside your degree plan as possible. The program's goal is minimizing the number of courses that students take—saving money for you, your parents and the state of Texas.

You must meet the following eligibility requirements:

- Your first college course after high school graduation must have been taken in Fall 1997 or later.
- You must have been a Texas resident at all times while pursuing the degree.
- You must have been entitled to pay in-state tuition at all times while pursuing the degree.
- You must not have graduated yet.

For more information on this rebate program, go to www.collegeforalltexas.com.

Aircraft Pilot Training: Airplane Fees

The following are program fees in addition to tuition.

Redbird/Simulator Fees:

Private Pilot:

\$200 (Unlimited time)

Instrument Pilot:

\$200 (Unlimited time)

Intermediate Flight:

\$200 (Unlimited time)

Commercial Flight:

\$200 (Unlimited time)

Certified Flight Instructor Airplane OR Multi-Engine Flight:

\$200 (Unlimited time)

Total Airplane Course Simulator Fees: \$1,000

Airplane (Fixed-Wing Rates):

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Cessna 172

Solo flight: \$121 per hour

Fuel surcharge: \$53 per hour

Piper PA-28-181

Solo flight: \$131 per hour

Fuel surcharge: \$53 per hour

Piper PA44-180

Solo flight: \$192 per hour

Fuel surcharge: \$106 per hour

Dual flight, pre- and post-flight ground instruction: \$65 per hour

Fuel surcharge is based on (current price per gallon × gallons per hour) + 10%.

Additional solo flight fees apply when you are flying with an instructor.

Pre- and post-flight ground instruction is based on 0.6 hours billed per dual instruction.

Note: FAA examiner fees for practical flight exams are typically \$900. These are charged by the examiner and you as the applicant are responsible for paying them, except for the instructor rating, which is typically \$1,800. FAA written exams are currently \$175 per test, and you as the applicant are personally responsible for payment.

What is the FAA? The FAA (Federal Aviation Administration) is the U.S. government agency that regulates all aspects of civil aviation, including pilot certification and testing.

To view our Statewide Operating Procedures for Tuition and Fees please view [FA 1.10 TUITION AND FEES](#)

02. Traditional Course Tuition Table

We want to make sure you have a clear picture of your investment here at TSTC. We group our programs into four different **Tiers** and your specific costs are based on which Tier your program falls into, how many **Credit Hours** you are taking, and whether you are a Texas resident.

What is a Tier? A Tier is a category we use to group programs based on the resources, equipment and specialized instruction they require. This helps us set fair tuition rates across our many different technical fields.

What are Credit Hours? Credit hours are the units we use to measure the amount of time you spend in class or lab each week. Most degrees require a specific total number of credit hours to graduate.

Notice of Important Tuition Policies:

During your very last semester at TSTC, we allow you to add an additional program of study if you plan to continue your education with us. During that final term, we will only bill you based on your primary program of study.

Please keep in mind that the charges listed here may change if our Board of Regents approves updates during the academic year. We will always do our best to notify you of these changes as early as possible.

Returned-Check Fee:

If a payment is returned for any reason, there is a \$50 returned-check fee applicable to all types of transactions.

Bundled Pricing

If you are interested in a more predictable payment path, remember that we offer a Bundled Pricing Option for select programs. This allows you to spread the cost of tuition, tools and books evenly across multiple semesters. You can find more details on this in the Bundled Pricing section of this catalog.

Traditional Course Tuition Effective Fall 2026

The tables below show your total cost, which is made up of your base tuition plus **Designated Tuition**.

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Please refer to the Tuition and Fees section of this catalog if you need more information about the difference between Resident and Non-Resident tuition charges.

What is Designated Tuition? Designated tuition is a fee charged per credit hour that helps us maintain our state-of-the-art facilities and provide the support services you need to succeed.

Texas Resident Students - Tier 1

Programs: Aviation Maintenance Technology, Associate Degree in Nursing (ADN), Dental Hygiene, Diesel Equipment Technology, Electrical Lineworker Technology, Emergency Medical Services, Industrial System Technology - Advanced Manufacturing Technology, Instrumentation Technology, Surgical Technology, Vocational Nursing, Welding Technology

Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$282	\$307
2	\$50	\$564	\$614
3	\$75	\$846	\$921
4	\$100	\$1,128	\$1,228
5	\$125	\$1,410	\$1,535
6	\$150	\$1,692	\$1,842
7	\$175	\$1,974	\$2,149
8	\$200	\$2,256	\$2,456
9	\$225	\$2,538	\$2,763
10	\$250	\$2,820	\$3,070
11	\$275	\$3,102	\$3,377
12	\$300	\$3,384	\$3,684
13	\$325	\$3,666	\$3,991
14	\$350	\$3,948	\$4,298
15	\$375	\$4,230	\$4,605

Texas Resident Students - Tier 2

Programs: Advanced Manufacturing - Industrial Maintenance, Advanced Manufacturing - Automation and Robotics, Advanced Manufacturing - Semiconductor, Automation and Control, Biomedical Equipment Technology, Building Construction Technology, Culinary Arts, Cybersecurity, Electrical Power and Controls, Electromechanical Technology, Mechatronics, Precision Machining, Process Operations, Wind Energy Technology

Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$245	\$270
2	\$50	\$490	\$540
3	\$75	\$735	\$810
4	\$100	\$980	\$1,080
5	\$125	\$1,225	\$1,350
6	\$150	\$1,470	\$1,620
7	\$175	\$1,715	\$1,890
8	\$200	\$1,960	\$2,160
9	\$225	\$2,205	\$2,430
10	\$250	\$2,450	\$2,700
11	\$275	\$2,695	\$2,970
12	\$300	\$2,940	\$3,240
13	\$325	\$3,185	\$3,510
14	\$350	\$3,430	\$3,780
15	\$375	\$3,675	\$4,050

Texas Resident Students - Tier 3

Programs: Aircraft Pilot Training, Architectural/Civil Drafting Technology, Architectural Design & Engineering Graphics, Auto Collision and Management, Automotive Technology, Avionics, Business Management, Chemical Dependency Counseling,

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Computer Networking & Systems Administration, Electrical Construction, Engineering Graphics and Design Technology, HVAC Technology, Occupational Safety and Environmental Compliance, Plumbing & Pipefitting, Solar Energy

Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$207	\$232
2	\$50	\$414	\$464
3	\$75	\$621	\$696
4	\$100	\$828	\$928
5	\$125	\$1,035	\$1,160
6	\$150	\$1,242	\$1,392
7	\$175	\$1,449	\$1,624
8	\$200	\$1,656	\$1,856
9	\$225	\$1,863	\$2,088
10	\$250	\$2,070	\$2,320
11	\$275	\$2,277	\$2,552
12	\$300	\$2,484	\$2,784
13	\$325	\$2,691	\$3,016
14	\$350	\$2,898	\$3,248
15	\$375	\$3,105	\$3,480

Texas Resident Students - Tier 4

Programs: Academic Core, Biology, Computer Programming, Digital Media and Design, Education Training, Engineering, Health Information Technology, Physics, Pre-Allied Health, Web Design and Development

Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$169	\$194
2	\$50	\$338	\$388
3	\$75	\$507	\$582
4	\$100	\$676	\$776
5	\$125	\$845	\$970
6	\$150	\$1,014	\$1,164
7	\$175	\$1,183	\$1,358
8	\$200	\$1,352	\$1,552
9	\$225	\$1,521	\$1,746
10	\$250	\$1,690	\$1,940
11	\$275	\$1,859	\$2,134
12	\$300	\$2,028	\$2,328
13	\$325	\$2,197	\$2,522
14	\$350	\$2,366	\$2,716
15	\$375	\$2,535	\$2,910

Nonresident Students - Tier 1

Programs: Aviation Maintenance Technology, Associate Degree in Nursing (ADN), Dental Hygiene, Diesel Equipment Technology, Electrical Lineworker Technology, Emergency Medical Services, Industrial System Technology - Advanced Manufacturing Technology, Instrumentation Technology, Surgical Technology, Vocational Nursing, Welding Technology

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Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$282	\$461
2	\$358	\$564	\$922
3	\$537	\$846	\$1,383
4	\$716	\$1,128	\$1,844
5	\$895	\$1,410	\$2,305
6	\$1,074	\$1,692	\$2,766
7	\$1,253	\$1,974	\$3,227
8	\$1,432	\$2,256	\$3,688
9	\$1,611	\$2,538	\$4,149
10	\$1,790	\$2,820	\$4,610
11	\$1,969	\$3,102	\$5,071
12	\$2,148	\$3,384	\$5,532
13	\$2,327	\$3,666	\$5,993
14	\$2,506	\$3,948	\$6,454
15	\$2,685	\$4,230	\$6,915

Nonresident Students - Tier 2

Programs: Advanced Manufacturing - Industrial Maintenance, Advanced Manufacturing - Automation and Robotics, Advanced Manufacturing - Semiconductor, Automation and Control, Biomedical Equipment Technology, Building Construction Technology, Culinary Arts, Cybersecurity, Electrical Power and Controls, Electromechanical Technology, Mechatronics, Precision Machining, Process Operations, Wind Energy Technology

Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$245	\$424
2	\$358	\$490	\$848
3	\$537	\$735	\$1,272
4	\$716	\$980	\$1,696
5	\$895	\$1,225	\$2,120
6	\$1,074	\$1,470	\$2,544
7	\$1,253	\$1,715	\$2,968
8	\$1,432	\$1,960	\$3,392
9	\$1,611	\$2,205	\$3,816
10	\$1,790	\$2,450	\$4,240
11	\$1,969	\$2,695	\$4,664
12	\$2,148	\$2,940	\$5,088
13	\$2,327	\$3,185	\$5,512
14	\$2,506	\$3,430	\$5,936
15	\$2,685	\$3,675	\$6,360

Nonresident Students - Tier 3

Programs: Aircraft Pilot Training, Architectural/Civil Drafting Technology, Architectural Design & Engineering Graphics, Auto Collision and Management, Automotive Technology, Avionics, Business Management, Chemical Dependency Counseling, Computer Networking & Systems Administration, Electrical Construction, Engineering Graphics and Design Technology, HVAC Technology, Occupational Safety and Environmental Compliance, Plumbing & Pipefitting, Solar Energy

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Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$207	\$386
2	\$358	\$414	\$772
3	\$537	\$621	\$1,158
4	\$716	\$828	\$1,544
5	\$895	\$1,035	\$1,930
6	\$1,074	\$1,242	\$2,316
7	\$1,253	\$1,449	\$2,702
8	\$1,432	\$1,656	\$3,088
9	\$1,611	\$1,863	\$3,474
10	\$1,790	\$2,070	\$3,860
11	\$1,969	\$2,277	\$4,246
12	\$2,148	\$2,484	\$4,632
13	\$2,327	\$2,691	\$5,018
14	\$2,506	\$2,898	\$5,404
15	\$2,685	\$3,105	\$5,790

Nonresident Students - Tier 4

Programs: Academic Core, Biology, Computer Programming, Digital Media and Design, Education Training, Engineering, Health Information Technology, Physics, Pre-Allied Health, Web Design and Development

Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$169	\$348
2	\$358	\$338	\$696
3	\$537	\$507	\$1,044
4	\$716	\$676	\$1,392
5	\$895	\$845	\$1,740
6	\$1,074	\$1,014	\$2,088
7	\$1,253	\$1,183	\$2,436
8	\$1,432	\$1,352	\$2,784
9	\$1,611	\$1,521	\$3,132
10	\$1,790	\$1,690	\$3,480
11	\$1,969	\$1,859	\$3,828
12	\$2,148	\$2,028	\$4,176
13	\$2,327	\$2,197	\$4,524
14	\$2,506	\$2,366	\$4,872
15	\$2,685	\$2,535	\$5,220

03. Performance-Based Education (PBE) Tuition Table

We want to make sure you have a clear picture of your investment here at TSTC. We group our programs into four different **Tiers** and your specific costs are based on which Tier your program falls into, how many **Credit Hours** you are taking, and whether you are a Texas resident.

Performance-Based Education (PBE) is a **subscription-based program**. For more information on PBE, please see our [TSTC - Performance Based Education](#) webpage.

What is a Tier? A Tier is a category we use to group programs based on the resources, equipment and specialized instruction they require. This helps us set fair tuition rates across our many different technical fields.

What are Credit Hours? Credit hours are the units we use to measure the amount of time you spend in class or lab each week. Most degrees require a specific total number of credit hours to graduate.

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What is Performance-Based Education (PBE)? Performance-Based Education (PBE) is TSTC's competency-based education framework. In PBE, you progress by mastering specific skills rather than by meeting traditional deadlines. This approach prepares you for your career by focusing on your ability to demonstrate real-world competencies.

What are Subscription-Based Programs? Subscription-based programs use a tuition model that allows you to add more classes to your schedule for free once you have met specific academic requirements within a single term. Under the subscription rate students in Performance-Based Education programs will not pay for more than 12 credit hours each semester.

Notice of Important Tuition Policies:

During your very last semester at TSTC, we allow you to add an additional program of study if you plan to continue your education with us. During that final term, we will only bill you based on your primary program of study.

Please keep in mind that the charges listed here may change if our Board of Regents approves updates during the academic year. We will always do our best to notify you of these changes as early as possible.

Returned-Check Fee:

If a payment is returned for any reason, there is a \$50 returned-check fee applicable to all types of transactions.

Bundled Pricing

If you are interested in a more predictable payment path, remember that we offer a Bundled Pricing Option for select programs. This allows you to spread the cost of tuition, tools and books evenly across multiple semesters. You can find more details on this in the Bundled Pricing section of this catalog.

Performance-Based Education (PBE) Course Tuition Effective Fall 2026

The tables below show your total cost, which is made up of your base tuition plus **Designated Tuition**.

Please refer to the Tuition and Fees section of this catalog if you need more information about the difference between Resident and Non-Resident tuition charges.

What is Designated Tuition? Designated tuition is a fee charged per credit hour that helps us maintain our state-of-the-art facilities and provide the support services you need to succeed.

Texas Resident Students - Tier 1

Programs: Diesel Equipment Technology, Electrical Lineworker & Management Technology, Emergency Medical Services

Credit Hours	Tuition	Designated Tuition	TOTAL

1	\$25	\$282	\$307
2	\$50	\$564	\$614
3	\$75	\$846	\$921
4	\$100	\$1,128	\$1,228
5	\$125	\$1,410	\$1,535
6	\$150	\$1,692	\$1,842
7	\$175	\$1,974	\$2,149
8	\$200	\$2,256	\$2,456
9	\$225	\$2,538	\$2,763
10	\$250	\$2,820	\$3,070
11	\$275	\$3,102	\$3,377
12	\$300	\$3,384	\$3,684
13	\$300	\$3,384	\$3,684
14	\$300	\$3,384	\$3,684
15	\$300	\$3,384	\$3,684

Texas Resident Students - Tier 2

Programs: Advance Manufacturing Core (Automation Track and Semiconductor Track), Cybersecurity, Precision Machining, Process Operations

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Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$245	\$270
2	\$50	\$490	\$540
3	\$75	\$735	\$810
4	\$100	\$980	\$1,080
5	\$125	\$1,225	\$1,350
6	\$150	\$1,470	\$1,620
7	\$175	\$1,715	\$1,890
8	\$200	\$1,960	\$2,160
9	\$225	\$2,205	\$2,430
10	\$250	\$2,450	\$2,700
11	\$275	\$2,695	\$2,970
12	\$300	\$2,940	\$3,240
13	\$300	\$2,940	\$3,240
14	\$300	\$2,940	\$3,240
15	\$300	\$2,940	\$3,240

Texas Resident Students - Tier 3

Programs: Architectural/Civil Drafting Technology, Architectural Design & Engineering Graphics, Auto Collision and Management Technology, Automotive Technology, Business Management Technology, Chemical Dependency Counseling, Computer Networking & Systems, HVAC Technology, Occupational Safety and Environmental Compliance

Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$207	\$232
2	\$50	\$414	\$464
3	\$75	\$621	\$696
4	\$100	\$828	\$928
5	\$125	\$1,035	\$1,160
6	\$150	\$1,242	\$1,392
7	\$175	\$1,449	\$1,624
8	\$200	\$1,656	\$1,856
9	\$225	\$1,863	\$2,088
10	\$250	\$2,070	\$2,320
11	\$275	\$2,277	\$2,552
12	\$300	\$2,484	\$2,784
13	\$300	\$2,484	\$2,784
14	\$300	\$2,484	\$2,784
15	\$300	\$2,484	\$2,784

Texas Resident Students - Tier 4

Programs: General Academic, Biology, Chemistry, Computer Programming, Computer Science, Digital Media and Design, Economics, Education Training, Engineering, English, Health Information Technology, Mathematics, Physics, Web Design & Development

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Credit Hours Tuition Designated Tuition TOTAL

1	\$25	\$169	\$194
2	\$50	\$338	\$388
3	\$75	\$507	\$582
4	\$100	\$676	\$776
5	\$125	\$845	\$970
6	\$150	\$1,014	\$1,164
7	\$175	\$1,183	\$1,358
8	\$200	\$1,352	\$1,552
9	\$225	\$1,521	\$1,746
10	\$250	\$1,690	\$1,940
11	\$275	\$1,859	\$2,134
12	\$300	\$2,028	\$2,328
13	\$300	\$2,028	\$2,328
14	\$300	\$2,028	\$2,328
15	\$300	\$2,028	\$2,328

Nonresident Students - Tier 1

Programs: Diesel Equipment Technology, Electrical Lineworker & Management Technology, Emergency Medical Services

Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$282	\$461
2	\$358	\$564	\$922
3	\$537	\$846	\$1,383
4	\$716	\$1,128	\$1,844
5	\$895	\$1,410	\$2,305
6	\$1,074	\$1,692	\$2,766
7	\$1,253	\$1,974	\$3,227
8	\$1,432	\$2,256	\$3,688
9	\$1,611	\$2,538	\$4,149
10	\$1,790	\$2,820	\$4,610
11	\$1,969	\$3,102	\$5,071
12	\$2,148	\$3,384	\$5,532
13	\$2,148	\$3,384	\$5,532
14	\$2,148	\$3,384	\$5,532
15	\$2,148	\$3,384	\$5,532

Nonresident Students - Tier 2

Programs: Advance Manufacturing Core (Automation Track and Semiconductor), Cybersecurity, Precision Machining

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Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$245	\$424
2	\$358	\$490	\$848
3	\$537	\$735	\$1,272
4	\$716	\$980	\$1,696
5	\$895	\$1,225	\$2,120
6	\$1,074	\$1,470	\$2,544
7	\$1,253	\$1,715	\$2,968
8	\$1,432	\$1,960	\$3,392
9	\$1,611	\$2,205	\$3,816
10	\$1,790	\$2,450	\$4,240
11	\$1,969	\$2,695	\$4,664
12	\$2,148	\$2,940	\$5,088
13	\$2,148	\$2,940	\$5,088
14	\$2,148	\$2,940	\$5,088
15	\$2,148	\$2,940	\$5,088

Nonresident Students - Tier 3

Programs: Architectural/Civil Drafting Technology, Architectural Design & Engineering Graphics, Auto Collision and Management Technology, Automotive Technology, Business Management Technology, Chemical Dependency Counseling, Computer Networking & Systems, HVAC Technology, Occupational Safety and Environmental Compliance

Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$207	\$386
2	\$358	\$414	\$772
3	\$537	\$621	\$1,158
4	\$716	\$828	\$1,544
5	\$895	\$1,035	\$1,930
6	\$1,074	\$1,242	\$2,316
7	\$1,253	\$1,449	\$2,702
8	\$1,432	\$1,656	\$3,088
9	\$1,611	\$1,863	\$3,474
10	\$1,790	\$2,070	\$3,860
11	\$1,969	\$2,277	\$4,246
12	\$2,148	\$2,484	\$4,632
13	\$2,148	\$2,484	\$4,632
14	\$2,148	\$2,484	\$4,632
15	\$2,148	\$2,484	\$4,632

Nonresident Students - Tier 4

Programs: General Academic, Biology, Chemistry, Computer Programming, Computer Science, Digital Media and Design, Economics, Education Training, Engineering, English, Health Information Technology, Mathematics, Physics, Web Design & Development

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Credit Hours Tuition Designated Tuition TOTAL

1	\$179	\$169	\$348
2	\$358	\$338	\$696
3	\$537	\$507	\$1,044
4	\$716	\$676	\$1,392
5	\$895	\$845	\$1,740
6	\$1,074	\$1,014	\$2,088
7	\$1,253	\$1,183	\$2,436
8	\$1,432	\$1,352	\$2,784
9	\$1,611	\$1,521	\$3,132
10	\$1,790	\$1,690	\$3,480
11	\$1,969	\$1,859	\$3,828
12	\$2,148	\$2,028	\$4,176
13	\$2,148	\$2,028	\$4,176
14	\$2,148	\$2,028	\$4,176
15	\$2,148	\$2,028	\$4,176

04. Bundled Pricing

Bundled Pricing is an optional payment plan designed to help select new associate degree students manage their education costs. The total cost of your program—including tuition, books, tools and supplies—is divided equally among the designated number of semesters it takes to complete your degree. This means you pay the same amount each semester, making it easier to budget and plan your finances.

Terms and Eligibility

To be eligible for bundled pricing, you must be a brand new student to TSTC with no previous college credits, and be classified as a Texas resident. If you are transferring from another institution or have previous college credits, you are not eligible for bundled pricing. You must also enroll in at least 12 credit hours per semester.

You must plan to pursue an associate degree beginning in the Fall 2026 semester in either:

- Automotive,
- HVAC,
- Business Management, or
- Advanced Manufacturing

You must opt-in to this plan by the first day of class by signing the Bundled Pricing Agreement in Workday (Form TSTC-0-ES-122). Once you sign the agreement, make payment arrangements, and pick up your tools or supplies, you are locked into the plan.

If you take accelerated hours to finish your degree in fewer than the designated number of semesters you will not owe any additional cost for tools and supplies.

You must maintain **continuous, full-time enrollment** to keep this pricing. You will forfeit, or lose, this benefit if you:

- Drop below 12 credit hours.
- Take a break between semesters.
- Change your major or degree type.
- Withdraw from the college.
- Fall into academic or financial aid suspension.

What is Continuous Enrollment? Continuous enrollment means taking classes without skipping semesters.

What is Full-time Enrollment? Full-time enrollment means you are taking 12 or more credit hours in a semester.

If you violate any term of the agreement you will be responsible for any remaining tuition as outlined by TSTC, plus the full remaining cost of all tools and supplies. Please note that once you pick up your tools and supplies, you are the owner; we do not provide refunds for these items and you will be responsible for any replacement costs.

Eligible Programs and Costs

The following programs are eligible for Bundled Pricing:

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Program	Credit Hours	Cost of Tuition	Cost of Supplies	TOTAL Cost of Tuition & Supplies	Price Per Semester
Automotive Technology	60	\$13,920	\$3,945	\$17,865	\$4,500
HVAC Technology	60	\$13,920	\$3,811	\$17,731	\$3,500
Business Management Technology	60	\$13,920	\$2,179	\$16,099	\$2,600
Advanced Manufacturing Technology	60	\$18,420	\$5,169	\$23,589	\$3,900

05. Fees

Let's talk about the fees you might see on your student account. Your student fees may be determined by a variety of factors. Please note that not all of these fees apply to **Accelerated Training Solution programs**. You can contact [Student Accounting](#) for more information. We are always here to help!

What are Accelerated Training Solution programs? *These are short-term, non-degree programs designed to help you quickly build professional skills for the workforce.*

More information on fees can be found in our Statewide Operating Standard (SOS) [FA 1.10 TUITION AND FEES](#)

Fees for Fall 2026 are as follows: **Nonresident E-Learning Fee**

\$300 per semester credit hour.

This fee is for out-of-state residents enrolled in online learning credit courses. If you pay this, your courses are exempt from all other state and designated tuition.

A semester credit hour is the unit we use to measure how much time you spend in class and studying. Typically, one credit hour equals one hour of classroom instruction per week throughout a semester.

Testing Center Exam Fee

Cost of exam.

This applies to tests you take at [TSTC Testing Centers](#) and to TSTC Challenge Exams. It includes the fee for test administration.

Challenge Exam Fee

\$150 per exam.

This fee is charged per exam.

Challenge Exams are tests you can take to validate prior learning and prove you already know the material. Passing these exams allows you to earn credit and accelerate through a course!

Program-specific Fees and Costs

Varies.

We apply this for some specific credit programs.

Accelerated Training Solution Fees and Costs

Varies.

We apply this for some courses in our Accelerated Training Solution programs.

Out-of-State Resident and Accelerated Training Solution Tuition

At least twice the accelerated training tuition rate for the associated course section.

This is for nonresidents who are brought from outside the state by their employers to attend the course.

Credit Award Evaluation Fee

\$25 per evaluation.

This applies when we evaluate your CEUs and/or prior learning for the purpose of awarding you TSTC semester credit.

CEUs, or Continuing Education Units, are a way to measure and document your participation in non-credit professional

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development and training courses.

External Certification of Specialty

Cost of exam.

Accident Insurance

You may purchase accident insurance through [Student Accounting](#) (the cashiers). Coverage is available per academic year through the census date of your class(es). Please see the cashiers for current rates.

Locker Rental Fee

\$25 per semester.

This is a voluntary fee if you would like to reserve a locker for a semester.

Background Security Check

Cost of security check.

This is required for certain programs.

Student ID Replacement Fee

\$10 per card.

Digital Materials Fee

Cost of materials, including administrative fee.

This varies by course.

Installment Plan Fee

\$25 per semester per installment plan.

An installment plan is a helpful payment setup that lets you pay your tuition in smaller chunks over the semester rather than all at once.

Installment Plan Late Fee

\$25 after a 7-day grace period.

Returned-check Fee

\$50 per check.

Audit Fee

Applicable tuition plus \$25 per semester credit hour.

This fee applies if you choose to audit a class. *More information can be found in our Statewide Operating Standard (SOS [ES 3.11 AUDITING OF COURSES](#)).*

Auditing means you are taking the course for your own learning without earning a grade or college credit.

Concurrent Enrollment Fee

Regular tuition/fee charges apply.

This applies to concurrent enrollment.

Concurrent enrollment is when you are taking college classes while still in high school, or when you are enrolled at two different colleges at the same time.

Handicap Parking Violation

\$100

Moving Violation

\$40

Other Offenses

\$25—First offense.

\$50—Second offense.

\$100—Third offense.

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Other offenses include, but are not limited to, housing violations, code of conduct violations, smoking in a nonsmoking-designated area and other parking violations.

06. Waivers and Exemptions

In this section, we describe **tuition waivers and exemptions** for your college credit courses. If you are classified as a Texas Resident for tuition purposes, you may be eligible to have all or part of your state tuition and/or designated tuition waived if you qualify for one of the waivers or exemptions listed below. Please contact the appropriate office for additional information and to determine your eligibility.

What is a Tuition Waiver or Exemption? A tuition waiver or exemption is a benefit that reduces or eliminates the amount of tuition you are required to pay. Waivers and exemptions are available to students who meet specific eligibility criteria set by state law. More information on waivers and exemptions can be found on the [Texas Coordinating Board website](#).

In Fall 2014, a law was adopted by the State Legislature ([SB 1210, passed in 2013](#)). This law requires that you must meet the Financial Aid **Standards of Academic Progress (SAP)** for certain waivers and exemptions. These standards are outlined under the [TSTC Satisfactory Academic Progress policy](#) for Financial Aid. If you fail to meet SAP for a term and need to request an appeal, please contact your [Enrollment Coach](#).

What is Satisfactory Academic Progress (SAP)? SAP is a set of standards that measure your academic performance, including your grades and the pace at which you complete your coursework. You must meet these standards to remain eligible for financial aid and certain waivers and exemptions.

For all waivers and exemptions, please make sure your documentation is submitted to us by the third class day of the semester so we can process your application.

Waivers & Exemptions for Residents

- **Students who are the highest-ranking graduate of their high school class (Valedictorian and Salutatorian).**
Contact: [Student Accounting](#)

- **High school graduates who received TANF benefits while in high school.**
Contact: [Student Accounting](#)

What is TANF? TANF stands for Temporary Assistance for Needy Families, a federal program that provides financial assistance to low-income families with children.

- **Children of POWs and MIAs as certified by the U.S. Department of Defense.**
Contact: [Veteran Services](#)

What are POWs and MIAs? POW stands for Prisoner of War, and MIA stands for Missing in Action. These terms refer to military personnel who were captured or went missing during military service.

- **Children of Disabled Firefighters or Peace Officers as certified by the Texas Higher Education Coordinating Board.**
Contact: [Student Accounting](#)

- **Blind or Deaf Students as certified by the Texas Health and Human Services - Blind and Deaf-Blind Services and Deaf and Hard of Hearing Services.**
Contact: [Student Accounting/Access and Learning Accommodations](#)

- **Students in foster or other residential care as certified by the Texas Department of Protective and Regulatory Services.**
Contact: [Student Accounting](#)

Waivers & Exemptions for Residents or Nonresidents

If we classify you as a resident or nonresident for purposes of tuition assessment, you may be eligible to have all or part of your state tuition and/or designated tuition waived if you qualify for one of the waivers or exemptions listed below. Contact the appropriate office for additional information and to determine your eligibility.

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- **High school students enrolled in class sections for dual high school and college credit may have state and designated tuition waived or reduced.**

Contact: [Dual Credit](#)

- ***What is Dual Credit?*** Dual credit allows you to earn both high school and college credit for the same course, helping you get a head start on your college education while still in high school.

- **Hazlewood Tuition Exemption for Veterans and their dependents (Hazlewood).**

Contact: [Veteran Services](#)

- ***What is the Hazlewood Act?*** The Hazlewood Act is a Texas state benefit that provides eligible veterans and their dependents with an exemption from tuition and certain fees at Texas public colleges and universities.

- **Students enrolled in more than one Texas public institution of higher education at the same time may have a reduction in minimum state tuition charges.**

Contact: [Enrollment Center](#)

- **Senior citizens 65 years of age or older may audit courses without payment of state and designated tuition.**

Contact: [Student Accounting](#)



[Texas Education Code Section 54.210](#)

- ***What does it mean to Audit a Course?*** To audit a course means to attend and participate in the class without receiving a grade or earning credit toward a degree. It allows you to learn the material without the pressure of exams or assignments.

- **TSTC employees, their spouses and/or dependents receive a waiver of designated tuition.**

Contact: [Human Resources](#)

Waivers & Exemptions for Nonresidents

If we classify you as a nonresident of Texas for purposes of tuition assessment, you may still be eligible to pay resident rates if you qualify for one of the waivers or exemptions listed below. Contact the [Enrollment Center](#) for more information.

- **Military personnel stationed in Texas and their spouses and children.**

Contact: [Veteran Services](#)

- **Veteran, spouse/dependent of a non-Texas member of the U.S. Armed Forces whose intent is to make Texas his/her new home.**

Contact: [Veteran Services](#)

- **Veteran Access, Choice and Accountability Act of 2014 ("Choice Act") Section 702.**

Contact: [Veteran Services](#)

What is the Choice Act? The Choice Act is a federal law that allows certain veterans to pay in-state tuition rates at public colleges and universities, regardless of their state of residence, if they meet specific eligibility requirements.

- **[Colonel John M. McHugh Tuition Fairness for Survivors Act of 2021 \(SB1095\)](#) for individuals who are entitled to Survivors' and Dependents' Education Assistance Program ([Chapter 35](#)).**

Contact: [Veteran Services](#)

What is Chapter 35? Chapter 35, also known as the Survivors' and Dependents' Education Assistance Program, provides education and training benefits to eligible dependents and survivors of veterans who are permanently and totally disabled due to a service-related condition or who died while on active duty or as a result of a service-related condition.

- **Individuals employed at least half-time as teachers or professors at Texas institutions of higher education and their spouses and children.**

Contact: [Student Accounting](#)

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- **Students whose families transferred to Texas as a part of the state's plan for economic development.**
Your employer company must be certified as eligible by the [Texas Higher Education Coordinating Board](#)
Contact: [Student Accounting](#)

- **Students who receive a competitive scholarship of at least \$1,000.**
Contact: [Enrollment Center](#)

- **Students who reside in a county or parish of Arkansas, Louisiana, New Mexico or Oklahoma, that is adjacent to Texas in the out-of-state county or parish where a current reciprocity agreement is in effect with a college or university.**
Contact: [Enrollment Center](#) *Statewide Operating Procedures* [FA 1.12 RESIDENT TUITION FOR STUDENTS OF BORDERING STATES OR NATIONS](#), [Texas Education Code Section 54.231](#)

What is a Reciprocity Agreement? A reciprocity agreement is an arrangement between states or institutions that allows students from one state to attend college in another state at reduced tuition rates, often at the same rate as in-state students.

- **Students from Mexico or Canada enrolled through a Texas Higher Education Coordinating Board approved Exchange Program.**
Contact: [Student Accounting](#)
- **Students from Mexico who demonstrate financial need.**
Contact: [Student Accounting](#)

Only applicable to students attending the Harlingen campus. Statewide Operating Procedures [FA 1.12 RESIDENT TUITION FOR STUDENTS OF BORDERING STATES OR NATIONS](#), [Texas Education Code Section 54.231](#)

- **Nonimmigrant aliens residing in Texas in accordance with NATO treaties and their spouses and children.**
Contact: [Student Accounting](#)

What is a Nonimmigrant Alien? A nonimmigrant alien is a foreign national who is in the United States temporarily for a specific purpose, such as work, study, or diplomatic service, and does not have permanent residency status.
[Texas Education Code Section 54.231](#)

- **Students who reside not more than 100 miles from the boundary of Texas with another state.**
Contact: [Student Accounting](#)
Statewide Operating Procedures [FA 1.12 RESIDENT TUITION FOR STUDENTS OF BORDERING STATES OR NATIONS](#)
[Texas Education Code Section 54.231](#)

07. Installment Payment Plan

If you are a **college credit student**, you may pay your registration charges (state tuition and designated tuition), campus housing (other than Harlingen family and Waco nonstudent housing), and meal plans using an **installment payment plan**. Under state law, we allow you to pay your state and designated tuition in installments for the fall and spring semesters, as well as for certain summer terms.

What is a College Credit Student? A college credit student is someone enrolled in courses that earn credits toward a certificate or an associate degree. This is different from students in workforce training or continuing education programs, who focus on specific job skills but do not typically earn academic college credit.

What does it mean to pay in installments? Paying in installments is a helpful way to break up your total bill into smaller, manageable payments over time instead of paying it all at once.

How to Enroll in a Payment Plan:

1. To enroll in a payment plan, please log in to your TSTC My Apps Dashboard on your computer using your TSTC OneID username and password by visiting login.tstc.edu.
2. Click on the "Touchnet Student Payments" tile to log in to **Touchnet**.
3. Please click on "Payment Plans" to enroll in a new payment plan.
4. To make a payment, please click on "Make Payment." You can also review your account information through this page.

In order to activate your payment plan, you must make your initial payment and sign the **installment Agreement**. This

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must be completed online through Touchnet (or in person) before our published deadlines.

What is Touchnet? Touchnet is our secure payment platform. You can log in to Touchnet through your [TSTC My Apps Dashboard](#).

What is an Installment Agreement? An Installment Agreement is a formal document where you agree to the payment schedule.

Payment Schedules

Your payments are due according to the following schedules:

Fifteen-Week Term:

- 1/3 prior to published deadlines plus the \$25 installment plan fee.
- 1/3 prior to the sixth class week.
- 1/3 prior to the eleventh class week.

Twelve-Week Summer Term:

- 1/3 prior to published deadlines plus the \$25 installment plan fee.
- 1/3 prior to the fifth class week.
- 1/3 prior to the ninth class week.

Less Than Twelve-Week Term:

- 1/2 prior to published deadlines plus the \$25 installment plan fee.
- Remainder 1/2 before the class week prior to the halfway point of the term.

Your Responsibilities

When you elect to pay in installments, you agree to the following:

1. Pay a \$25 installment plan fee.
2. Make payments on or before the due dates we establish at the time of your registration.
3. Pay a \$25 late fee for each payment made more than seven days after the payment is due.
4. Understand that you cannot obtain official copies of your student records (such as your transcripts) until the debt is paid in full.
5. Recognize that you are at risk of being dropped or prevented from attending classes until the debt is paid or acceptable arrangements are made with Student Accounting.
6. Remain responsible for the payment of any remaining balance if you withdraw from the College.

More information on fees can be found on our Statewide Operating Procedures [FA 1.8 PAYMENT BY INSTALLMENTS](#)

08. Emergency Tuition Loan

If you're a **college credit student**—meaning you're enrolled in courses that count toward a certificate or degree—and you're facing **financial hardship** that prevents you from paying your tuition, fees, and/or textbook costs, you may qualify for an emergency tuition loan. These loans are designed to help you stay enrolled when unexpected financial challenges arise.

What is Financial Hardship? Financial hardship refers to a situation where you are temporarily unable to meet your financial obligations due to unforeseen circumstances, such as a sudden loss of income, medical expenses or other emergencies.

Important Details:

- **Funds are limited.** Emergency tuition loans are available on a first-come, first-served basis and depend on available funding.
- **You must meet several qualifications.** To be eligible, you must be registered for at least six credit hours, meet [Satisfactory Academic Progress \(SAP\) standards](#), not be on financial aid suspension, and be in good academic standing with no other outstanding debts to TSTC. For complete eligibility requirements, see our Statewide Operating Procedures [FA 1.17 EMERGENCY STUDENT TUITION, FEE AND TEXTBOOK LOAN PROGRAM](#)
- **Repayment is required.** Emergency tuition loans are loans, not grants, which means you must repay them. The full loan amount is due approximately 30 days after the first class day of the term.

What is Satisfactory Academic Progress (SAP)? SAP is a set of standards you must meet to remain eligible for

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financial aid. It includes maintaining a minimum GPA, completing a certain percentage of attempted courses, and finishing your program within a maximum timeframe.

Need Help? Contact [Student Accounting](#) for more information about emergency tuition loans, application procedures and repayment options. You can also refer to Statewide Operating Procedures [FA 1.17 EMERGENCY STUDENT TUITION, FEE AND TEXTBOOK LOAN PROGRAM](#).

09. Housing Fees

If you are planning to live on campus, there are a few steps you need to take to secure your spot. Required items include your Housing Application along with the appropriate **deposit**, a **Background Check Authorization form**, and a **nonrefundable** application fee.

What is a Deposit? *A deposit is an upfront payment to hold your room.*

What is the Background Check Authorization Form? *This form is a document that gives us permission to review your legal history to help maintain a safe community. You can find the form for your specific campus on our [housing website](#).*

What does nonrefundable mean? *Nonrefundable means that the fee cannot be returned to you under any circumstances, even if you change your plans or do not move into campus housing.*

Please visit the [TSTC Student Housing website](#) for more detailed information regarding **room and board**.

What is room and board? *Room and board refers to the combined cost of your place to live (room) and your meal plan (board) while staying on campus.*

10. Student Insurance

You have the option to purchase accident insurance, **malpractice (liability) insurance**, or **needlestick insurance** directly through the [Student Accounting cashiers](#). Coverage is available each semester and must be arranged by the **census date** of your class(es).

What is Malpractice (Liability) Insurance? *Malpractice (liability) insurance is a type of coverage that protects you financially in the event you are held legally responsible for a mistake made during your professional or clinical training.*

What is Needlestick Insurance? *Needlestick insurance provides coverage for medical testing and care if you are accidentally pricked by a medical needle during your training.*

What is the census date? *The census date is the official date each semester when we finalize enrollment counts. It's an important deadline for financial and registration purposes. Check the Academic Calendar to find the official census date for your semester.*

For current rates on accident, malpractice, or needlestick insurance, please contact the [Student Accounting cashier](#). They can provide you with pricing details and help you enroll in the coverage that fits your program needs.

11. Refunds

Refunds for Drops/Reduction in Course Load

If you drop **credit courses** and **reduce your course load** while remaining enrolled at the College, we will refund your state and designated tuition based on the official drop date recorded by your [Enrollment Coach](#). If you add and drop the same number of credit hours at the same time, you will not be charged or refunded for these simultaneous transactions—as long as they occur by the published deadlines. Please note that any schedule changes must occur by our published deadlines.

What are Credit Courses? *Credit courses are classes where you are eligible to earn semester credit hours toward an institutional award, certificate or associate degree. Credit courses also include support courses required for your*

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enrollment, such as developmental education.

What is a Reduction in Course Load? A reduction in course load happens when you drop a course (or courses) with more credit hours than the courses you add, leaving you enrolled in fewer total credit hours overall.

We calculate refunds for semester credit courses using a formula based on the number of weeks scheduled for a term or class. If you drop a class or withdraw from school before the first **class day**, you will receive a 100 percent refund.

What are Class Days? Class days are defined as calendar days during which classes are normally scheduled, not the specific days a particular class meets.

If you officially **withdraw** from school or drop a course after classes begin, we will refund your state and designated tuition and fees according to the schedule below—unless the fees are specifically designated as nonrefundable.

What is a Withdrawal? A withdrawal happens when you completely end your enrollment at the College for the current term.

Refund Schedule for Semester Credit Hour Courses

Length of Class		
Term in Weeks	Last Class Day for 70% Refund	Last Class Day for 25% Refund
2 or less	2	n/a
3	3	4
4	4	5
5	5	6
6	5	7
7	7	9
8	8	10
9	9	11
10	9	12
11	10	14
12	12	15
13	13	16
14	13	17
15	14	19
16 or longer	15	20

We may approve a refund for normally nonrefundable fees in cases where you are not accepted for enrollment by TSTC or when a class is canceled. TSTC reserves the right to withhold your refund if you are suspended for disciplinary reasons. We will not process refunds until enough time has elapsed for a check to clear the bank. We will give you your refund after we receive your withdrawal notice from the Student Enrollment Center. Cash refunds are not permitted. Any financial aid balances and other **credit balances** are disbursed via the **BankMobile Card** on the date announced at registration.

What are credit balances? Credit balances are money owed back to you.

What is the BankMobile Card? The BankMobile card is your TECH OneCard or Student ID card. All student financial disbursements, such as refunds and financial aid awards, will be handled with [BankMobile Disbursements](#).

Refunds for Federal Financial Aid Recipients

Special refund requirements apply if you receive federal aid classified as **Title IV** funds.

What are Title IV Funds? Title IV funds include federal financial aid money provided by the U.S. government to help pay for school. These are awards such as Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), William D. Ford Federal Direct Loans, PLUS loans, and other federal awards.

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You must attend classes to remain eligible for federal financial aid. If you are considering withdrawing from all of your classes before completing 60 percent of the semester, please contact the [Enrollment Center](#) to learn how this will affect your financial aid.

If you reduce your course load or withdraw from TSTC, the College and/or you may be required to return federal funds awarded to you. You may be eligible for a refund of a portion of the state and designated tuition you paid to TSTC for that term.

What is an Unofficial Withdrawal? An unofficial withdrawal happens when you stop participating in all your classes during the semester and all your final grades are F's. If this happens, you will be responsible for repaying your federal aid. We determine the amount you will need to repay using a **return of Title IV calculation**. This is based on your last date of participation, unless an instructor certifies and documents that you were participating in at least one class after the 60 percent point of the term or until the end of the term. Keep in mind that a term may consist of one or more **blocks or modules**.

What is a Return of Title IV Calculation? *This is a federal formula used to figure out exactly how much aid must be given back to the government based on how much of the semester you actually completed.*

What are blocks or modules? *Blocks or modules are shorter class sessions nestled within the main semester.*

If you received financial assistance, we will return your refund directly to the grant, scholarship, or loan sources from which the assistance was originally received.

A federal formula dictates the amount of Title IV aid that must be returned to the federal government by the College and by you. This formula applies to you if you are receiving Title IV funds and you withdraw from the College before the **60 percent point** in time of the term. The percentage of Title IV aid to be returned is equal to the number of calendar days remaining in the term divided by the total number of calendar days in the term. Scheduled breaks of five consecutive days or more are excluded from this calculation.

If any funds still need to be returned after the refund of Title IV aid, they are used to repay TSTC funds, state funds, and other private sources. If there is an unpaid balance, then all aid sources must be repaid before we return any funds to you. Please note that funds released to you due to a credit balance on your account do not relieve your obligation to repay Title IV funds when you withdraw.

Order of Return of Title IV Funds

We must return the Title IV funds to the programs for which you received aid during the payment period or period of enrollment as applicable. We will return them in the following order, up to the net amount disbursed from each source:

1. William D. Ford Unsubsidized Federal Direct Loan (other than PLUS loans).
2. William D. Ford Subsidized Federal Direct Loan.
3. Federal Pell Grant for which a return of funds is required. Federal Supplemental Educational Opportunity Grant (FSEOG) for which a return of funds is required.
4. State, Institutional, Scholarship or other program requiring a refund for enrollment changes.

For more detailed information on our entire refund procedures for Financial Aid students or about how we calculate refund amounts, please contact the Student Enrollment Center.

Campus Store Refunds

For information on restocking fees and return deadlines, please contact your local [Campus Store](#).

If you are returning textbooks, they must be in sellable condition without broken packaging, and you must provide the original receipt.

Tools, supplies, and **consumables** are nonrefundable, unless they are defective. If they are defective, you must return the items within three weeks of your purchase and include your sales receipt in order to receive a refund.

What are consumables? *Consumables are items meant to be used up during your coursework, for example welding rods or sketchpad paper.*

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Housing Refunds

Upon completion and authorization of your College Housing clearance documents, refunds will be based on the following TSTC approved fee schedule:

- We will refund the refundable portion of your security deposit or the remaining balance after any charges.
- We will not give refunds for your rental fee during the last 10 school days of the semester.
- We base rent refunds on a **pro-rated formula**.

What is a pro-rated formula? In this scenario, a pro-rated formula is a calculation that adjusts your refund based on the exact amount of time you actually lived in housing.

Refund of Other Fees

We do not give refunds for installment plan fees. Additionally, we do not give refunds for health insurance, malpractice insurance, and other miscellaneous student-requested fees after those expenses have already been incurred by the College.

Refunds for Involuntary Withdrawal/Separation

If you are subject to an involuntary withdrawal or separation we will issue any refund of tuition and fees according to the approved refund policy in effect on the date of the administrative withdrawal. *Please see our Statewide Operating Procedures [ES 3.25 INVOLUNTARY STUDENT SEPARATION/WITHDRAWAL](#) for more information.*

For more information on Refunds, please see our Statewide Operating Procedures [FA 1.09 REFUND ON TUITION AND FEES](#)

12. Financial Aid

We offer a variety of financial assistance programs to help eligible students with the cost of attending school. The funds we provide through these programs can be in the form of a grant (Federal or State), payment for part-time employment (Federal or State Work-Study), a Federal Direct Loan, scholarships, or a combination of these programs.

To help you understand your options, here is a breakdown of what each of these funding types means:

- A **grant** is a financial gift that does not need to be repaid.
- The **Work-Study Program** provides part-time employment that allows you to earn money and provides you with the opportunity to gain valuable work experience.
- **Scholarships** are funds awarded to you to help with the cost of your education, and these do not have to be repaid. You may receive a scholarship based on academic merit, financial need or other criteria set forth by scholarship donors.
- A **Federal Direct Loan** is borrowed money that you must repay with interest.

Our philosophy is to provide financial assistance to students who would otherwise be unable to pursue **postsecondary education**.

What is Postsecondary Education? *Postsecondary education is any education or schooling you receive after high school.*

Please see the [Financial Aid web page](#) for a complete listing of our financial assistance programs.

13. Types of Financial Aid

You have access to a variety of financial aid resources at TSTC. Below is a detailed list of the programs available to help you fund your education. Be sure to visit the [Financial Aid web page](#) for more complete information.

Federal Pell Grant

This federal aid program is usually offered to students who display exceptional financial need and who have not yet earned a bachelor's, graduate or professional degree. It is intended to be the base of your financial aid offer. Your eligibility is based on your **FAFSA** need analysis results, your cost of attendance and your enrollment status. You are only eligible to receive six academic years (600%) of Pell Grant funds over your lifetime, which is referred to as your Lifetime Eligibility Used. Keep in mind that you may not receive Federal Pell Grant funds from more than one school at a time.

What is the FAFSA? *FAFSA stands for Free Application for Federal Student Aid, and is the official government form you fill out to request federal, state and school financial assistance.*

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Federal Supplemental Educational Opportunity Grant (FSEOG)

This federal aid program helps college students who have exceptional financial need. To qualify, you must be a U.S. citizen or eligible noncitizen, have a valid Social Security number and maintain satisfactory academic progress. The amount of FSEOG you receive varies according to the availability of other grants, scholarships, loans and student employment. FSEOG funds are limited, so we award them on a first-come, first-served basis.

What is Satisfactory Academic Progress? *Satisfactory Academic Progress means you are consistently meeting our school's grade and credit completion requirements to keep your financial aid.*

Texas Public Education Grant (TPEG)

This state program provides financial assistance to help Texas residents, non-residents or foreign students obtain a postsecondary education. Eligibility is based on your financial need. In addition to having unmet financial needs, you must be registered for Selective Service, unless you are exempt. To be considered for this grant, we require you to complete a Student Eligibility form in Workday.

For more information about TPEG, please see our Statewide Operating Procedures[FA 3.3 TEXAS PUBLIC EDUCATIONAL GRANTS](#).

Texas Educational Opportunity Grant (TEOG)

The purpose of this program is to provide grant aid to students who are enrolled in two-year community colleges, public technical colleges or public state colleges in Texas. To qualify, you must have a **Student Aid Index** that is not greater than the amount determined by the Texas Higher Education Coordinating Board. You must be enrolled in a TSTC certificate or degree-seeking program (Academic Core and non-degree-seeking students are not eligible for this grant). Additionally, you must be within your first 30 credit hours for consideration and cannot have already earned an associate or baccalaureate (bachelor's) degree. If you are a TEOG recipient, you must complete a Student Eligibility form in Workday. TEOG funds are limited and we offer them to students on a first-come, first-served basis.

What is a Student Aid Index? *The Student Aid Index (SAI) is a number calculated from the information you provide on your FAFSA. It helps determine your eligibility for need-based financial aid. A lower SAI generally indicates greater financial need.*

Federal and State Work-Study Program

The Federal College Work-Study Program provides part-time jobs for students with financial need, allowing you to earn money to help pay for your education expenses. The program encourages community service work and work related to your course of study. In addition, the Texas College Work-Study Program provides eligible, financially needy students with jobs, which are partly funded by the state of Texas. We ensure that all students considered for employment under the Work-Study Program are given equal employment opportunities without regard to race, color, religion, gender, national origin, age, genetic information, disability or veteran status.

At all times, your priority should be given to your academics. The Work-Study Program is not intended to interfere with your education, therefore, as a student Work-Study employee, you cannot work during your scheduled class times.

If you are interested in applying for the Work-Study Program, you must complete the Free Application for Federal Student Aid (FAFSA) and must apply online for specific jobs through the [Student Workday page](#).

To be eligible to participate in the Work-Study Program, you must be meeting the Financial Aid Standards of Academic Progress and be enrolled at least half-time in your program of study. Please note that funds awarded are subject to change due to your enrollment status or if you fail to meet program requirements. We require a background check and drug screening for all Work-Study positions. Depending on the specific position and the location of your hire, some positions may also require a fingerprint check. If you apply for a position, you may be selected for an interview. If a department supervisor selects you for an interview, they will notify you by phone and/or email. If you are chosen for the job, you will meet with our Human Resources staff to complete your employment forms.

Texas Workforce Commission-Vocational Rehabilitation Services (TWC-VRS)

The Texas Workforce Commission-Vocational Rehabilitation Services (TWC-VRS) provides financial assistance to eligible students whose disability may result in substantial vocational limitations. In order to provide training assistance, TWC-VRS must determine that such training is necessary for your employment and that you have a good chance of success in your chosen program. You can contact your local TWC-VRS office for more information.

Workforce Innovation and Opportunity Act (WIOA)

The Workforce Development board in your area may offer payment of tuition and/or other expenses to students who qualify for this program. If you are an interested applicant, you should contact the nearest Workforce Center or call 1-800-457-

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5600 or 1-800-457-5633. We recommend that you apply for this program as far in advance of registering for classes as possible.

Federal Loans

Various types of federal loans are available to you, including the Federal Direct Subsidized, Federal Direct Unsubsidized and Federal Direct Parent Loan. To be considered eligible for a loan, first complete the Free Application for Federal Student Aid (FAFSA). If you are a first-time Federal Direct Loan borrower, you will need to complete an **online entrance counseling** and electronically sign a **Master Promissory Note** before completing the loan process at [Federal Student Aid - Loans and Grants](#).

To be eligible for a loan, you must have a current Free Application for Federal Student Aid (FAFSA) on file with us, be enrolled for at least six credit hours, not be on financial aid suspension or in **default**, and meet any other current eligibility requirements. You will also need to meet our satisfactory academic progress guidelines.

If you are a TSTC candidate for graduation who has borrowed a direct loan, we require you to complete a loan exit counseling session at <https://studentaid.gov>. This should be done before graduation.

What is Entrance Counseling? Entrance counseling is a mandatory information session that ensures you understand your responsibilities when taking out a student loan.

What is a Master Promissory Note? A Master Promissory Note is a legal document you sign promising to pay back your loans with interest.

What does it mean to be in Default? Being in default means you have failed to repay a previous student loan.

Private Loans

Private loans are made by private organizations such as banks, credit unions, and state-based or state-affiliated organizations. They have terms and conditions that are set by the lender rather than the government. Private student loans are generally more expensive than federal student loans. For a comparison of the different types of loans, we encourage you to review the differences between [Federal loans vs Private loans](#)

NOTE:

Your financial aid offers may be adjusted accordingly if you have a sponsorship, scholarship, and/or a waiver. We do this to prevent an overaward, which occurs when you receive financial aid that exceeds your demonstrated financial need or the total cost of attendance.

14. Applying for Financial Aid

Financial Aid Philosophy & Purpose

Our financial aid philosophy focuses on accomplishing several goals using the resources we have available.

Our goals are:

- To meet the needs of as many students as possible.
- To provide you with a combination of funds that includes **self-help**, such as a loan or a job.
- To responsibly use all the funds available during the **academic period**.
- To limit the amount of money students need to borrow to a reasonable level.

What is Self-Help? Self-help refers to financial aid that you must earn through work or pay back as a loan.

What is an Academic Period? An academic period is the specific timeframe, such as a semester, during which you are enrolled in classes.

Purpose of financial aid

The primary purpose of financial aid is to provide you with assistance for expenses related to your educational needs.

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While the primary responsibility for meeting college costs lies with you and your parents; we have federal, state and institutional programs available if you meet the eligibility requirements.

We offer financial aid on a first-come, first-served basis or based on program eligibility. Because our funds are limited, we may give preference to full-time students who meet our **priority deadlines**. If you are enrolled at least half-time, you may request to be considered for additional assistance.

What are Priority Deadlines? *Priority deadlines are dates we set to encourage you to apply early so you have the best chance of receiving funds that are limited.*

The key to obtaining financial assistance is to apply early. To make sure that an aid offer is available and ready for you, we recommend that you submit your completed file to the enrollment center by these dates:

Priority Deadlines

- Fall Term: May 1
- Spring Term: Oct. 1
- Summer Term: March 1

We process all applications on a first-come, first-served basis. If you submit a late application, funds may not be available when your payment for tuition is due.

Since financial assistance is not always ready by the date your payment is due, we recommend that you have another way to pay for your registration costs. Please contact [Student Accounting](#) for information on **installment plans** or **emergency tuition loans**.

What are Installment Plans? *An installment plan is a payment arrangement that allows you to pay your tuition and fees in smaller amounts over the course of the semester instead of all at once.*

What are Emergency Tuition Loans? *Emergency tuition loans are short-term loans provided by the college to help you cover your tuition costs when your other financial aid is not yet available.*

To be eligible for assistance, you must:

- Complete the Free Application for Federal Student Aid (FAFSA) at studentaid.gov. Be sure to complete the correct application for the year that you will be attending our school.
- For the fall 2026, spring 2027, and summer 2027 semesters, you must complete the 2026-2027 FAFSA.
- Submit any verification documents and other forms if our office needs to review your application further.
- Complete the admissions requirements, be accepted for enrollment and enroll in an **eligible program**.
- Meet our financial aid standards for **Satisfactory Academic Progress (SAP)**.
- Be a United States citizen or an eligible noncitizen. (Please note that other rules may apply for foreign students and noncitizens).
- Have a high school diploma or a GED.
- Not be in **default** on an educational (student) loan or owe a refund on any federal grants.
- Be registered and pay your tuition by the 11th class day of the 15-week semester, the 9th class day of the 12-week semester, or by the **census date** for the classes you registered for. If you register after these deadlines, you may not be eligible for financial aid for that semester. Other rules apply to short summer sessions and online education courses.
- Your eligibility for federal and state student aid can be affected by [incarceration and/or the type of conviction you have](#).

What is an Eligible Program? *An eligible program is a specific course of study or major that the government has approved for federal financial aid funding.*

What is Satisfactory Academic Progress (SAP)? *SAP is a set of standards you must meet, including maintaining a certain grade point average (GPA) and finishing enough of your classes, to keep receiving financial aid.*

What is a Default? *A default happens when you fail to repay a loan according to the terms you agreed to when you borrowed the money.*

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What is a Census Date? *The census date is the official day we record your enrollment for the semester. Please see the academic calendar to find the census date for your semester.*

Note to prospective students, students and parents of students:

All of your loan information will be submitted to the National Student Loan Data System (NSLDS), which is the U.S. Department of Education's central database for student aid. This data will be visible and accessible by guarantee agencies, lenders and institutions determined to be authorized users of the data system.

Additional requirements for state financial aid

To be considered for state financial aid, you need to be registered with the U.S. Selective Service if you are a male born after December 31, 1959. All males residing in the United States are required to register for Selective Service immediately following their 18th birthday. For Selective Service information, please go to www.sss.gov. Also, you **MUST** complete the **Statement of Student Eligibility** form to be considered for state financial aid.

What is the Statement of Student Eligibility? *This is a required state form confirming you meet the basic criteria to receive state funding.*

Note: If you are reported as not attending class prior to the census date, your financial aid eligibility may be affected. Financial aid is typically based on full-time enrollment and will be reduced if you take fewer than 12 credit hours.

Determination of offers

We do our best to meet your financial needs for school. We determine your financial need by subtracting your **Student Aid Index (SAI)** from your total estimated **Cost of Attendance (COA)**.

This looks like:

Educational Financial Need = COA - SAI.

We offer aid based on your financial need and the money we have available. Since financial aid programs have limited funds, our Financial Aid Processing Center may not be able to meet all of your financial aid expectations, but we will try to meet your direct educational needs. You are responsible for notifying our financial aid office about any additional resources or funding provided to you.

What is the Student Aid Index (SAI)? *The SAI is an evaluation number based on your FAFSA that helps us determine how much financial aid you are eligible to receive.*

What is the Cost of Attendance (COA)? *The COA is the estimated total price for you to attend TSTC for one year, including tuition, housing, food, books and other expenses.*

Note: The Federal Pell Grant is initially granted based on a full-time enrollment status. We will adjust this amount based on your actual hours of enrollment. We use the latest census date for all the classes you are enrolled in within the term as the official lock date for the term. Adjustments will be made to your Pell Grant if you drop classes before this date. Your other grants, loans and scholarships may be canceled if you are enrolled in fewer than six credits.

Student cost of attendance budget (included in COA budget)

Your Cost of Attendance (COA) is based on the number of credit hours you take that are eligible for financial aid funding. We start by calculating your COA for full-time enrollment and then adjust it based on your actual enrollment level on the latest census date for the courses you are enrolled in within the term.

Transportation and housing costs

We make the following assumptions about where you live:

- If you are a **dependent student**, we assume you live with your parents.
- If you are an **independent student**, we assume you live off campus.

You can change your housing status if these assumptions are incorrect.

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What are Dependent Students? *Dependent students are generally those who must provide their parents' financial information on the FAFSA.*

What are Independent Students? *Independent students are those who meet specific rules, such as being 24 or older, married or a veteran, and do not have to provide parent information on the FAFSA.*

We may consider adjustments to your cost of attendance on a case-by-case basis for child care expenses, excessive transportation costs, the purchase of a computer, etc.

If you are an employee of the school or an eligible dependent, you will be charged the adjusted tuition rate approved by the TSTC Board of Regents, if approved by Human Resources.

How to apply for Financial Aid

To apply for financial aid, you need to complete the Free Application for Federal Student Aid ([FAFSA](#)). For information on how to complete the FAFSA and what information you need to have before you begin, please visit [Filling out the FAFSA](#).

If you have any problems completing the FAFSA, you can contact the Federal Student Aid Information Center at 1-800-433-3243 or TTY: 1-800-730-8913.

To finish applying, you must complete our admissions process, submit your required transcripts and officially declare a major at the [Enrollment Center](#). If you have an undeclared major, you are not eligible for financial aid.

Please pre-register according to our college registration dates and guidelines. Keep in mind that financial aid only pays for courses that are strictly within your degree plan.

Next steps:

Once your financial aid eligibility has been determined, we will send you an offer letter by email. After you register, your financial aid will be credited to your student account before classes start. Your financial aid may not be enough to cover all of your charges, so be sure to carefully review your billing statement in Workday.

If you wish to receive a student loan and have never had one at TSTC you will need to complete the additional steps of signing a **Master Promissory Note**, completing **entrance counseling**, and officially accepting your loans in Workday. Please contact the enrollment center for more information and assistance.

You may find the estimated cost of attendance on our [Payment Information website](#).

What is a Master Promissory Note? *A Master Promissory Note, is a legal document you sign promising to pay back your loans with interest.*

What is Entrance Counseling? *Entrance counseling is a mandatory information session that ensures you understand your responsibilities when taking out a student loan.*

Denial of aid and/or repayment

We may reduce, deny or cancel your financial assistance, and you may owe a repayment, if you:

- Purposely give false or misleading information (you may be fined \$20,000, sent to prison, or both).
- Are on academic or financial aid suspension.
- Owe money to the school or to the Department of Education.
- Fail to report any changes in your circumstances that may affect federal and/or state financial aid. This includes assistance from the Workforce Innovation and Opportunity Act (WIOA), Department of Assistive and Rehabilitative Services (DARS), outside scholarships, child care assistance and other programs of assistance.
- Withdraw from the school or drop below half-time enrollment at any time during the semester, or fail to meet eligibility requirements.

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- Fail to begin attendance in one or all of your classes between the first day and census day.
- Are offered a Federal Pell Grant from more than one school for the same period of time.
- Stop attending your classes without officially dropping or withdrawing.
- Fail to notify us about aid you were offered at other institutions.
- Default on a student loan.
- Owe an overpayment of grants.

Change in circumstances

Your financial aid offers are based on the information you reported on your financial aid application and your enrollment status. Any financial situation that has recently changed because of, but not limited to, a loss of a job or benefits, death or other hardship may qualify you for a special circumstances evaluation.

You can [request a special circumstance review](#) through Workday. Starting from the Workday home page, simply use the menu option, then "Finances," then "Financial Aid," and select "FA Special Circumstances." After we review your request, we will ask you for any additional documentation, as needed.

Reapplying/renewal applications

Your financial aid does not renew automatically. You must submit the FAFSA each academic year. Applications for the following academic year are available each prior year on October 1. Our priority application deadline for the fall semester is May 1. An academic year includes three semesters: fall, spring and summer.

Verification of information

You must complete all applications and forms carefully and accurately. The Department of Education or TSTC may select your application for a process called **verification**. If you are selected and need to submit documents, you will receive a notification from us that includes the required form(s) along with a link so that you can easily upload them. You are responsible for submitting accurate information in order to prevent a delay in the processing of your application. Failure to complete the verification process will prevent us from offering you financial aid.

What is Verification? *Verification is a process where we confirm that the information on your FAFSA is correct by looking at official documents, like tax transcripts.*

Note: The documents you submit should be official documents from agencies such as the IRS, Social Security, Office of the Attorney General or other official agencies.

15. Standards of Academic Progress (SAP)

Maintaining Eligibility for Financial Aid

Texas State Technical College (TSTC) **Standards of Academic Progress (SAP)** are the benchmarks you must meet to continue receiving financial aid. If you receive financial aid, you must have a declared major and be enrolled in an eligible degree or certificate program. We evaluate all parts of your SAP at the end of each term of enrollment. This review includes all periods of your enrollment, even terms when you did not receive financial aid. You are expected to monitor your grades and **GPA** continuously. If you fail to meet the standards, you will receive correspondence in **Workday** directing you to an appeal form in your task inbox.

What is a GPA? *Your GPA, or Grade Point Average, is a numerical representation of your academic performance. It is calculated by averaging the grades you earn in your courses, weighted by the number of credit hours each course is worth. For example, if you earn an A (4.0) in a 3-credit course and a B (3.0) in a 3-credit course, your GPA would be 3.5. You can use this GPA Calculator to calculate a GPA here: <https://www.calculator.net/gpa-calculator.html>*

What is Workday? *Workday is TSTC's online Student Information System where you can view and update your personal information, register for classes and access other student services.*

You are required to maintain Satisfactory Academic Progress (SAP). These standards determine your eligibility for all **Federal Title IV aid**, as well as state and institutional aid, and certain waivers and exemptions offered by the state of Texas. Some aid programs such as the **TEOG** (Texas Educational Opportunity Grant) require higher standards, such as a higher GPA and/or a higher completion rate.

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What is Federal Title IV Aid? Federal title IV aid includes federal financial aid money provided by the U.S. government to help pay for school. These are awards such as Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), William D. Ford Federal Direct Loans, PLUS loans, and other federal awards.

What is the TEOG? The TEOG, or Texas Educational Opportunity Grant, is a state grant to help Texas students pay for college.

Minimum Cumulative Grade Point Average (GPA)

You must complete your classes with at least a 2.00 **cumulative GPA** based on all terms of enrollment. This is also known as qualitative progress. All college-level and developmental courses will be evaluated at the end of each term. Transfer courses are not counted towards the GPA evaluation.

What is your Cumulative GPA? Cumulative GPA, or cumulative grade point average, is your overall total combined GPA for your entire academic history at our school.

Minimum Cumulative Completion Rate

You must successfully complete at least 67% (specifically 66.5%) of the cumulative credit hours in which you enroll. This is known as **quantitative progress**. All college-level and developmental courses will be evaluated at the end of each term. Only passing grades count as successful completions. Incomplete, in-progress, failing grades, and drop/withdrawals are not considered completed courses, but they are considered attempted courses and will be calculated into the 67% completion requirement. Any transfer hours that are accepted from other colleges and applied toward the completion of your program are also counted in your cumulative completion rate.

What is Quantitative Progress? Quantitative progress is a measure of the pace at which you complete your degree.

Maximum Timeframe to Complete a Program

You must complete your program within 150% of the minimum hours required to complete your program. For example, if your degree program requires 60 credit hours for completion, you must complete that program within a maximum of 90 attempted credit hours. Once you reach the 150% limit, or if our Financial Aid Office determines that you cannot complete your program within the 150% limit, you will no longer be able to receive financial aid. We consider several variables when calculating the 150% limit, which include, but are not limited to, to:

- Credits attempted for all periods of enrollment are evaluated, even if you were not receiving financial aid to pay for them. Attempted hours are the hours in which you are enrolled as of the census date of the term. If you withdraw from a course or courses after the census date, it is still counted as an attempted course and is included in the SAP calculation. Developmental courses are not counted in this specific calculation.
- Any transfer hours that are accepted from other colleges and applied toward the completion of your program are counted in the maximum time frame. You must submit transcripts from all previously attended colleges before any financial aid is released to you.
- If you repeat a course, both attempts will be counted in the maximum credit hours and progression calculation, even if you did not receive financial aid for both attempts.
- You may receive financial aid when repeating a course that was previously unsuccessful, regardless of the number of times you attempted and failed the course.
- Once a course has been successfully completed, you can retake and receive financial aid for that same course only one additional time (one retake attempt).
- Separate rules apply for developmental courses.

Change of Major and Transfer Credits

If you are receiving financial aid, you must declare a major in an eligible certificate or degree program. You should only register for courses approved for your designated degree plan and catalog year. If you wish to change your major, you may submit a Change of Major request form to your Enrollment Coach or online via your Workday portal. Our Registrar's Office will change your major to ensure your new program is correctly tracked for SAP. Transfer credits that are applicable to your degree plan will be counted in both your attempted and completed credits.

Additional Certificates and Degrees

Changing programs will not change your current SAP status. We will re-evaluate your maximum time frame and only consider those credits that are included in your new program.

Treatment of Developmental Courses

Your enrollment in **developmental courses** is determined by testing or as recommended by an Enrollment Coach or advisor. You may receive financial aid for a maximum of 27 attempted hours of developmental coursework. These courses will be included when determining your cumulative GPA and cumulative completion rate, but they will not be counted in

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determining your maximum time frame. Once you have attempted 27 credit hours of developmental classes, you will not be able to receive additional financial aid to pay for those specific courses.

What are Developmental Courses? Developmental courses (sometimes called remedial courses) are designed to help you build foundational skills in areas like math, reading or writing before you take college-level courses. They do not count toward your degree requirements, but they do count toward your SAP calculations for GPA and completion rate.

Important Reminders

- You may receive financial aid when repeating a course that was previously unsuccessful, regardless of the number of times the course was attempted and failed.
- Once a course has been successfully completed, you can retake and receive financial aid for that same course only one additional time (one retake attempt).
- Financial aid will not pay for:
 - Courses that are not in your degree plan, unless there is documentation from the program explaining why the course is needed.
 - Courses taken by audit.
 - Continuing education courses.
 - Courses for which you enroll after the census date of the class, or for which you begin attendance after the official census date of the course, unless approved due to unusual circumstances.
 - Credits exceeding the 27 maximum credits for developmental courses.
 - Credit hours earned by placement tests.
 - Credit hours in excess of the 150% maximum time frame limit.
 - Courses taken without declaring a major in an eligible program (such as being enrolled as undeclared, undecided or non-degree seeking).

Failure to Meet the Financial Aid Standards of Academic Progress Warning

The first time that you fail to meet the minimum 2.0 cumulative GPA and/or the cumulative completion rate of 67%, you will be placed on financial aid warning. The only exception is if you exceed the maximum timeframe hours, which results in immediate suspension. While on "warning" status, you may continue to receive financial aid without needing to complete an appeal.

Financial Aid Suspension (Failed Status)

You may be placed on financial aid suspension for several reasons:

- Failing to meet the 2.0 cumulative GPA and/or the 67% completion rate during your warning period.
- Reaching the maximum time frame for your program of study, which is calculated by multiplying the number of hours in your program by 1.5.
- If you filed an appeal and were placed on an academic plan or on probation, but failed to meet the conditions of the appeal.

Reinstatement of Financial Aid Eligibility

If you are on financial aid suspension, you may have your aid reinstated in one of the following ways:

- Continue to attend Texas State Technical College without financial aid until you achieve both a cumulative GPA of 2.0 and a cumulative completion rate of 67%. Please note, it may require multiple terms to regain financial aid eligibility if you have an extremely low GPA and/or completion rate.
- File a Satisfactory Academic Progress Appeal demonstrating **mitigating circumstances** and have that appeal approved.
- If you have reached the maximum time frame for your program of study (150%), you may not regain eligibility to receive additional financial aid unless an appeal is granted.

Keep in mind that the maximum time frame limit is reached when you have attempted 150% of the credits needed to complete your program at TSTC. This limit could also be reached if you are returning for an additional associate degree or certificate. At this point, you are no longer eligible for financial aid. There is no warning prior to reaching this status.

What are Mitigating Circumstances? Mitigating circumstances are serious, unexpected events beyond your control that negatively affected your academic performance. Examples include the death of a family member, a serious illness or injury, or other significant hardships. You must provide documentation (such as medical records or death certificates) to support your claim.

Appeal Process

If you are placed on a failed status due to financial aid suspension or reaching the maximum timeframe, you may file an appeal based on **mitigating circumstances**. All appeals must be completed online, and we cannot accept them unless they include supporting documentation. Once we notify you that you are not eligible for aid due to not making satisfactory

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academic progress, you have five working days to submit an appeal, or up to the census date of the subsequent semester, whichever comes first. You are responsible for any payments and meeting payment deadlines during the appeal process. You should not miss payment deadlines while waiting for a response. Failure to pay for tuition and fees may result in being dropped from your classes. You are also responsible for any balances due if you withdraw before or after an appeal is denied.

We will only grant appeals for conditions causing extenuating hardship to you, such as the death of a family member, your own illness or injury, or other mitigating circumstances.

Your appeal must require supporting documentation regarding your mitigating circumstance, such as medical statements, death certificates, or other official records. We cannot accept appeals for mitigating circumstances without documentation. Remember, submitting an appeal does not guarantee it will be approved. Sitting out a semester or more does not change your SAP calculation result. Your appeal will be reviewed by our Enrollment Coaches, and if denied, you may appeal to the Associate/Senior Manager of Enrollment, whose decision is final.

An appeal must include the following:

- A completed Satisfactory Academic Progress Appeal Form.
- Documentation to support any claims.
- A description of the steps you have taken to remedy the situation.
- A success plan showing a plan of action you intend to take for your academic success.

Appeal Decisions Maximum Time Frame Appeal Approved

If approved, we will place you on an academic plan and review your progress at the end of each term. Failure to meet the 2.0 term GPA and/or 67% term completion rate will result in suspension from aid. The conditions of your appeal may require a higher term GPA and/or completion rate at the discretion of your Enrollment Coach.

Probation

We will place you on probation if we determine that you should be able to reach both the 2.0 cumulative GPA and 67% cumulative completion rate requirements by the end of your next term of enrollment. If you fail to meet these standards by the end of that term, you will be placed on suspension.

Academic Plan

We may place you on an academic plan designed to help you achieve a 2.0 GPA by the end of your second year of enrollment so that you will be eligible for graduation. While in this status, you must make progress according to an academic plan which dictates that you achieve a term GPA of 2.0 or higher and a term completion rate of at least 67% in order to retain your aid eligibility. The conditions of the appeal may require a higher term GPA and/or completion rate at the discretion of your Enrollment Coach. The first term that you are under an academic plan will be a probationary term. If you comply with the terms of the academic plan, you will be making academic progress and can continue to receive aid as long as you meet the conditions of the plan. Failure to achieve these conditions will result in suspension.

Appeal Denied

If your appeal is denied, you will not be eligible to receive financial aid until you meet the Satisfactory Academic Progress (SAP) standards as listed above: both a cumulative 2.0 GPA and a cumulative completion rate of 67%. It may take several semesters for you to regain your aid eligibility.

16. Managing Student Debt

We are committed to supporting you in managing student debt and developing strong **financial literacy** skills. We know that navigating student loans and repayment options can feel overwhelming, so we have partnered with organizations and created resources specifically to help you build financial stability.

Getting Help with Student Loans

If you are facing challenges with student loan payments, or if you just need help understanding your repayment options, we proudly partner with Wright International Student Services (WISS). You can contact WISS toll-free at (800) 257-4757 or visit www.wiss.info for assistance.

Why Financial Literacy Matters

Research shows that high debt levels can impact your ability to stay enrolled, progress through your program from semester to semester, and graduate. That's why we want to help you build financial stability early and throughout your time at TSTC.

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What is Financial Literacy? *Financial literacy means understanding how to manage your money effectively—including budgeting, saving, borrowing responsibly, and planning for your future.*

Additional Resources

To help you build financial stability we offer additional resources through our [Advocacy & Resource Center](#). There you can meet with coaches for financial planning and budgeting support.

We also strongly encourage you to explore www.financialliteracy101.org/financial-literacy to learn more about financial planning, saving, and investing. This resource offers practical tools and information to help you take control of your financial future.

17. Veteran Benefits

TSTC is approved to train service members, veterans and their eligible dependents under the provisions of various laws commonly called the **GI Bill®**. If you are using these benefits, please note that you are responsible for any tuition and fees not covered by the GI Bill® or the **Hazlewood Tuition Exemption**. Spouses or children of veterans may also receive benefits under certain conditions. To get started, we require your **DD Form 214** and transcripts for evaluation of prior credit in accordance with VA regulations. If you are eligible for assistance under any Department of Veterans Affairs programs, please contact our [Veteran Services](#) team.

We encourage you — whether you are a service member, veteran or dependent — to review all your benefits at benefits.va.gov/gibill before applying for educational benefits. If you are a Texas veteran or dependent, you may be eligible for benefits under the Texas Hazlewood Act, which encompasses many different tuition exemptions and waivers. Please visit tvc.texas.gov/education/hazlewood/ to view all eligibility requirements. If you are a Texas veteran interested in using the Hazlewood Tuition Exemption, you must submit the proper application and all supporting documentation to our Veterans Services team.

NOTE: If you are an active-duty, reservist or National Guard service member, we encourage you to speak with your educational service officer (ESO) or a counselor within your military service prior to enrolling with us.

What is the GI Bill®? *The GI Bill® is a federal program that provides educational benefits to service members, veterans and their families. It can help cover tuition, fees, housing and books.*

What is the Hazlewood Tuition Exemption? *The Hazlewood Tuition Exemption is a Texas state benefit that provides eligible veterans and their dependents with an exemption from tuition and certain fees at public colleges and universities in Texas.*

What is DD Form 214? *DD Form 214 is the official military discharge document that verifies your service history, discharge status and eligibility for veteran benefits.*

What is an Educational Service Officer (ESO)? *An ESO is a military representative who provides guidance on educational benefits and helps service members navigate the process of using their military education benefits.*

Check In Status

If you are reported as not checking into your courses, your enrollment certification will be interrupted and may impact your VA education benefits. If you receive an overpayment due to not checking into your courses, you are responsible for that overpayment, and money may be owed to TSTC and/or the Department of Veterans Affairs.

Enrollment Certification

We will only certify classes to the VA that earn credit toward your VA-approved, signed degree plan. We will not certify repeat courses that are already considered completed. It is your responsibility to meet with your [Enrollment Coach](#) and register for the required classes. You may request a printout of your program evaluation from your program advisor, Veteran Services or print the program evaluation that is available in Workday.

What is Enrollment Certification? *Enrollment certification is the process by which TSTC verifies your enrollment status*

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and course load to the VA so that your benefits can be processed and paid.

What is a Program Evaluation? A program evaluation is a document showing your academic progress and the courses required for your degree.

Pending Payment Compliance

In accordance with Title 38 US Code 3679(e), Texas State Technical College adopts the following additional provisions for any student using U.S. Department of Veterans Affairs (VA) Post-9/11 G.I. Bill® (Ch. 33) or Veteran Readiness & Employment (Ch. 31) benefits.

While payment to our institution is pending from the VA we will not:

- Prevent your enrollment
- Assess a late penalty fee to you
- Require you to secure alternative or additional funding
- Deny you access to any resources (such as access to classes, libraries or other institutional facilities) that are available to other students who have satisfied their tuition and fee bills to the institution

However, to qualify for this provision, you may be required to provide the Veteran Services team with:

- Proof of entitlement for your VA education benefit by the first day of class — for example, a VA Certificate of Eligibility (COE)
- A written request to utilize that entitlement
- Additional information needed to properly certify your enrollment as described in other institutional policies

What is Title 38 US Code 3679(e)? This is a federal law that protects students using certain VA education benefits from being penalized by their school while waiting for VA payments to arrive.

What is Chapter 33 (Post-9/11 G.I. Bill®)? Chapter 33 is a VA education benefit for service members and veterans who served on active duty after September 10, 2001. It covers tuition, fees, housing and books.

What is Chapter 31 (Veteran Readiness & Employment)? Chapter 31, formerly called Vocational Rehabilitation and Employment (VR&E), is a VA program that helps veterans with service-connected disabilities prepare for, find and maintain suitable employment.

What is a Certificate of Eligibility (COE)? A COE is an official document from the VA that confirms you are eligible to receive education benefits and shows how much benefit you have remaining.

18. Textbooks and Supplies

The Campus Store

We want to make sure you are completely prepared for your coursework! Our TSTC Campus Stores offer a wide variety of the books, tools and supplies you will need for your classes and labs. You can visit us in person at our store locations in Fort Bend County, Harlingen, Marshall, Sweetwater and Waco. If it is more convenient for you, you can shop online through our [Campus Stores](#) for everything you need.

07. First Steps at TSTC

01. Advising

Texas State Technical College recognizes advisement as an essential contributor to the educational experience, student learning and student success. TSTC provides strong institutional support and has developed a comprehensive advisement program to support student success. In support of student success, advisement services are designed to guide students through the various levels of the college experience to enable them to realize their personal, career and educational goals, as well as prepare them for lifelong learning. Advisement services are available to all degree and non-degree-seeking prospective and current students.

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TSTC students are responsible for:

- Seeking advisement;
- Understanding assessments and Texas Success Initiative (TSI) requirements for their program of study;
- Enrolling in courses in the appropriate sequence to ensure progress and success toward their educational objectives; and
- Understanding and adhering to all policies and procedures.

Each TSTC campus provides faculty program advisors and enrollment coaches to assist with TSI advisement.

New Student Advising

During the admissions process, an Enrollment Center staff member acts as a guide for new students to make sure that all admissions requirements are met. All new students are encouraged to contact an admissions advisor to begin the advising process prior to or upon completing the admissions requirements. If you know your Admissions Advisor's or Enrollment Coach's name, you can schedule an appointment with them directly by visiting <https://tstc.appointment451.sites.451.io/>. If you are looking for general information or not sure whom you need to speak with, you can submit a Request for Information form directly from the TSTC website at <https://www.tstc.edu/contact-us/>.



Enrollment Center

Current/Returning Student Advising

Enrollment coaches in the Enrollment Center assist in the retention and advising of current and returning students. Assistance includes continuing registration advising, maintaining financial aid, managing the Early Alert system which serves as an intervention tool when faculty request assistance, academic appeals, financial aid appeals and monitoring progress toward graduation.

The Enrollment Center staff works on a caseload management basis with students from application through graduation.

You can schedule an appointment with your Enrollment Coach directly by visiting <https://tstc.appointment451.sites.451.io/>.

Program Advisors

Program Advisors serve as an additional resource for students in Performance-Based Education (PBE) programs. Program Advisors help promote student success by assisting students as they progress through their program and course competencies. They help students stay on track to meet their academic goals, connecting them with appropriate interventions, including strategies in study habits, time management and other academic resources. Program Advisors also help answer any questions about the PBE program in general, and connect students with other support services to facilitate progress and successful completion of their program at TSTC.

02. Testing Center

Our testing centers offer testing services to help you reach your goals in your education. We also welcome members of our communities to use our services to support their own educational and career goals. Our testing centers follow the **National College Testing Association (NCTA) Professional Standards and Guidelines** to maintain the integrity of our institution.

What is the National College Testing Association (NCTA)? The NCTA is a professional organization that sets standards and best practices for college testing centers across the country. By following these guidelines, we ensure your testing experience is always fair, secure, and professional.

Hours of Operation

8 a.m.-5 p.m., Monday through Friday

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Please contact a testing center near you for specific test dates and times. While our hours are subject to change and you are required to make an appointment, we may be able to accommodate walk-ins depending on seat availability and our current office hours.

Maintaining Academic Integrity

To protect academic integrity, we use continuous monitoring through video surveillance, walk-throughs, and observation windows during your tests. This acts as a deterrent against any acts of misconduct or academic dishonesty (cheating). This proactive approach ensures that you and all students are aware of the consequences of cheating, which helps us promote a fair and honest testing environment for everyone. For more information on our specific guidelines, please visit the [Testing Center webpage](#).

Testing Accommodations

If you need disability accommodations, please contact the Access and Learning Accommodations (ALA) Office at adarequest@tstc.edu at least one week before your test date. Late requests will be considered, but cannot be guaranteed.

Academic Testing Accommodated Exams

Accommodated exams are for enrolled students who need to take TSTC course exams at the testing center based on their testing accommodations. Please note that these testing accommodations are in effect only after you have completed the accommodations process through the Access and Learning Accommodations (ALA) Office.

What are accommodated exams? Accommodated exams are tests that have been modified to meet your specific needs based on a documented disability. Examples include extended time, a quiet room, or assistive technology.

Proctored Exams

Some courses may require you to take **proctored exams** at the testing center. During these sessions, a trained staff member (a proctor) monitors the exam to ensure you follow all testing rules and maintain academic honesty. Security measures are in place to prevent cheating and protect academic integrity for all students.

What is a proctored exam? A proctored exam is a test that is officially supervised to ensure fairness and honesty throughout the testing process.

Placement Testing Texas Success Initiative (TSI) Assessment 2.0

The TSI Assessment 2.0 (also called TSIA2) is a standardized test designed to help higher education institutions determine if you are ready for college-level coursework in the general areas of reading, writing, and mathematics. Your scores help us place you in the right courses so you can succeed. Your **enrollment coach** plays a crucial role in helping you figure out if you need to take the TSI Assessment 2.0. Before you take the assessment, you must participate in a mandatory Pre-Assessment Activity (PAA), unless you have already completed it. The PAA is a required online activity that aims to prepare you for the TSIA2 assessment by providing practice test questions and information about the test to help you prepare.

What is an enrollment coach? An enrollment coach is a staff member dedicated to helping you navigate your academic journey, from choosing courses to understanding testing requirements.

College Level Examination Program (CLEP)

The **CLEP** exam allows you to move ahead in your coursework based on what you already know. The exam covers diverse subjects like business, science, history, languages, and literature. If you are a veteran student, you can use your G.I. Bill funds to cover CLEP exams and administration fees. TSTC awards course credit for CLEP subject exams, provided you have obtained the minimum score on the specific subject. However, we do not award credit for the CLEP General Exams. Your CLEP scores are valid for 10 years from the date you took the test.

What is CLEP? The College Level Examination Program (CLEP) is a series of tests that allow you to earn college credit by demonstrating your knowledge in specific subject areas. If you score high enough, you can skip certain courses and save time and money.

For more information, see Statewide Operating Procedures [ES 2.10 CREDIT AWARD FOR ASSESSMENT AND TRAINING](#)

Additional Testing

Our testing centers provide a variety of other exams, including allied health and nursing admission exams like the **ATI TEAS** and **HESI**. We also offer professional certification and licensing exams for fields such as aviation, computer

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networking, surgical instrument specialist, and phlebotomy technician. Please keep in mind that not all tests are available at every testing location, so you should confirm the availability of your specific exam beforehand to ensure a smooth testing experience. For a complete list of exams, please visit the [Testing Center webpage](#).

What are ATI TEAS and HESI? ATI TEAS (Test of Essential Academic Skills) and HESI (Health Education Systems, Inc.) are standardized entrance exams required for admission to many allied health and nursing programs. They assess your readiness for health science education.

03. New Student Orientation

After you complete the registration process, you will receive information about the New Student Orientation (NSO) schedule. We offer both in-person sessions and an online option to best fit your needs.

NSO is a great way to begin your TSTC journey. During orientation, you will be introduced to campus resources and learn how to get involved with campus activities. Whether you attend in person or online, NSO gives you the tools and information you need to navigate your first semester with confidence.

[For NSO details, click here.](#)

05. Special Population Services

Some special population students have historically struggled to complete their college education due to economic and physical struggles. At TSTC, we recognize that students who choose to enter career and technical programs may benefit from additional support and resources. That's why we offer specialized services through the Advocacy & Resource Center (ARC).

What is a Special Population?

Individuals: with disabilities; from economically disadvantaged families, including low-income youth and adults; those preparing for non-traditional fields, single parents, including single pregnant women; out-of-workforce individuals; English learners; homeless individuals; youth who are in or aged out of the foster care system, and youth with a parent who is in the armed forces, and on active duty.

Who Qualifies for Services?

You may qualify if you meet one or more of the special populations listed above and are enrolled at least part-time.

How Are These Services Funded?

These services are funded through the Carl D. Perkins Vocational & Applied Technology Act. Please keep in mind that this support depends on the availability of funds during the pertinent semester and your adherence to program policies.

What is the Carl D. Perkins Vocational & Applied Technology Act?

The Carl D. Perkins Act is federal legislation designed to increase the quality of technical education in the United States by providing funding for career and technical education programs, including support services for students in nontraditional fields.

How to Connect with ARC

If you would like more information on the services we provide to special population students, please reach out to our Advocacy & Resource Center (ARC) by emailing cultureofcaring@tstc.edu or visiting [our Google site](#). Here you can find ARC staff contact information, ARC locations on your campus, and the request for support form. Whether you are taking classes at one of our physical TSTC locations or you are taking classes fully online, you can easily connect with an ARC staff member by contacting us.

06. Student Identification Cards

If you are a college-credit student, you are required to obtain a TSTC identification (ID) card when you register for your classes. If you are a dual credit student or are enrolled in Accelerated Training, getting an ID card is optional, though it may be required depending on your specific course or program.

What is a College-Credit Student? A college-credit student is someone enrolled in courses that earn credits toward a formal associate degree or certificate of completion.

What is Accelerated Training? These are specialized, often short-term programs designed to teach specific job skills rather than a full academic degree.

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You should carry your ID card with you at all times while you are on campus. You will need to present it for various purposes, such as paying fees, accessing library resources, or gaining entrance into labs. You must also show your ID if it is requested by an **authorized official**. Please use your ID card responsibly. Any misuse of your ID card may result in disciplinary action.

Who is an Authorized Official? *An authorized official is any TSTC staff member, faculty member or campus security officer who has the responsibility to verify your identity to maintain a safe and organized campus environment.*

08. Scholastic Information

01. Academic Integrity

As a student at TSTC, we expect you to approach all your coursework with complete honesty and integrity. Academic integrity is a fundamental principle of the learning environment, and TSTC recognizes the rights and responsibilities of faculty and students to uphold appropriate standards of academic integrity.

Academic dishonesty is a serious matter, and any student found guilty of it will be subject to disciplinary action. Academic dishonesty includes, but is not limited to, cheating on academic work, plagiarism, collusion and falsifying academic records.

Cheating

What is Cheating? Cheating is any activity that gives you an unfair advantage in your academic work. It includes, but is not limited to:

- Copying from another student's assignment, test or other academic work.
- Possessing material, such as class notes or textbooks, during a test that is not authorized by the **instructor of record**.

What is an Instructor of Record? *The instructor of record is the teacher who is officially leading the class.*

- Collaborating without authority, or seeking aid from another student during an examination or assignment, or in preparing your academic work.
- Using, buying, selling, stealing, transporting or **soliciting**, in whole or in part, the contents of a test that hasn't been given yet, test key, homework solution or computer program.

What is Soliciting? *Soliciting means asking for or trying to obtain.*

- Substituting for another student or permitting another student to substitute for you to take a test or prepare other academic work.
- Paying, offering money or other valuables, or coercing another person to obtain an unadministered test, test key, homework solution or computer program, or to obtain information about an unadministered test, test key, homework solution or computer program.
- Falsifying laboratory reports and/or other academic work offered for credit.
- Taking, keeping, misplacing or damaging the property of the college, or of another individual student, if you know or reasonably should know that an unfair academic advantage would be gained by doing so.
- Willfully failing to comply with instructions given by a person administering a test.
- Discussing, without express permission from the instructor of record, the contents of an examination with another student who will take the examination.
- Divulging the contents of an examination for the purpose of preserving questions for use by another person when the instructor has designated that the examination is not to be removed from the examination room or not to be returned to you.
- Misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining academic or financial benefit, or for the purpose of injuring another student academically or financially.

Plagiarism

What is Plagiarism? Plagiarism means claiming another person's work as your own without acknowledging its origin and doing so for credit. This includes the appropriation, buying, receiving as a gift or obtaining by any means another's work and submitting it as your own.

While we recognize the benefits of technological advancements in supporting your success, you are expected to use these tools responsibly and ethically. Plagiarism includes the use of artificial intelligence (AI) not as a research or learning aid, but as a means to generate work that should originate from you. This applies to assignments or courses where AI use is restricted or prohibited by the instructor.

Collusion

What is Collusion? Collusion means the unauthorized collaboration with another person in preparing academic or lab assignments offered for credit, or the collaboration with another person to commit a violation of academic integrity.

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Falsifying Academic Records

What is Falsifying Academic Records? Falsifying academic records includes, but is not limited to, the alteration of grades or other falsification of an academic record such as a grade report, test paper, registration material or reporting form used by the College.

What Happens If You Violate Academic Integrity?

For more information and procedures regarding a violation, please see the [Student Code of Conduct, Acts of Academic Dishonesty](#) as well as our Statewide Operating Procedures [ES 4.27 ACADEMIC INTEGRITY](#).

02. Credentials

At TSTC, we offer programs of study that lead to **stackable credentials**. You may earn an Occupational Skills Award (OSA), Level 1 Certificates, Level 2 Certificates, a Core Curriculum Completer institutional certificate (CCC), Associate of Applied Science degrees (AAS), and/or Advanced Technical Certificates (ATC). If you are a high school student attending one of our participating partnering high schools, you may participate and complete [dual credit](#) pathways while still enrolled in high school. All of our programs are approved by the Texas Higher Education Coordinating Board, the state agency that oversees public higher education in Texas.



What are Stackable Credentials? *Stackable credentials are different levels of degrees and certificates that you can build upon over time to advance your career.*

TSTC participates in the Texas Common Course Numbering System (TCCNS) to make it easier for you to transfer your freshman and sophomore level general academic coursework to other colleges.

What is Academic Core Curriculum? *Academic core curriculum is your required foundational general education classes.*

What is a Prerequisite? *A prerequisite is simply a course you must successfully complete before you are allowed to register for a more advanced course.*

What are Semester Credit Hours? *Semester credit hours are the number of credits you earn for a course based on the hours spent in class per term.*

Associate of Applied Science (AAS) Degree

An Associate of Applied Science (AAS) degree is a two-year technical degree that prepares you for direct entry into the workforce. It combines hands-on training with technical theory to give you the skills employers need right now.

AAS degree programs are designed to train technicians who work with professionals. We award the AAS for our technical programs of study. These programs prepare you to be an in-demand technician working on a level between engineers and skilled craftsmen. Because you must be able to understand the profession and translate ideas into actual processes as a technician, we combine theory and classroom instruction with hands-on laboratory and shop experience. As a graduate of an associate degree program, you must show you are competent in communication and the use of computers by satisfactorily completing at least one course in which communication and basic computer skills are covered. Graduates of these programs receive an Associate of Applied Science degree.

The AAS curriculum contains 60 semester credit hours, other than the Dental Hygiene AAS 68 semester credit hours.

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Advanced Technical Certificate (ATC)

An Advanced Technical Certificate (ATC) is a specialized credential you can pursue after you already have an associate degree, a bachelor's degree, or have reached junior status in a bachelor's degree program. It provides advanced, specialized preparation in a particular career to supplement your degree.

ATC programs are comprised of 16-45 semester credit hours.

Certificate of Completion

A Certificate of Completion is a credential you earn by completing a skill development program. These programs focus on hands-on practical training and are designed to produce the skilled workers needed by modern industry.

Our skill programs emphasize hands-on laboratory and shop experience rather than classroom theory to teach you specific skills for entry-level careers. As a graduate of a certificate program, you will show that you are competent in oral communication and the use of computers by satisfactorily completing at least one course where oral communications and basic computer skills are covered. Graduates of these programs receive certificates of completion.

Certificate 3

A Certificate 3, also called an Enhanced Skills Certificate, is an optional certificate associated with an AAS degree program. It provides advanced training in skills, identified by business and industry, that go beyond what is covered in the AAS degree itself.

It is comprised of a minimum of 6 semester credit hours and a maximum of 12 semester credit hours.

Certificate 2

A Certificate 2 is a mid-level credential that requires more coursework than a Certificate 1 but less than an associate degree. It prepares you with a solid foundation of technical skills for your chosen career field.

Certificate 2 programs are comprised of a minimum of 30 semester credit hours and a maximum of 51 semester credit hours.

Certificate 1

A Certificate 1 is an entry-level credential that provides foundational technical training in a specific field. It requires fewer credit hours than a Certificate 2 or an associate degree.

Certificate 1 programs are comprised of at least 15 semester credit hours and a maximum of 42 semester credit hours.

Core Curriculum Completer Certificate

A Core Curriculum Completer Certificate is awarded when you successfully complete all elements and courses in the TSTC approved 42 semester credit hours Core Curriculum. This certificate demonstrates that you have completed the general education foundation required for many degree programs. The state of Texas guarantees acceptance by a public four-year university of any complete general education core transferred from any other Texas public college.

Occupational Skills Award (OSA)

An Occupational Skills Award (OSA) is a short-term credential that provides you with basic technical skills needed to start an entry-level career. These focused courses are designed to get you into the workforce quickly.

An OSA is a sequence of courses that meet the minimum standard for a program length specified by the [Texas Workforce Commission for the Federal Workforce Innovation and Opportunity Act \(WIOA\) program](#). WIOA is a federal act designed to help job seekers access employment, education, training, and support services. These short-term, skills-focused courses provide you with the basic technical skills needed to start an entry-level career. Your OSA awards will consist of 9-14 semester credit hours for credit courses and 144-359 **contact hours** for workforce continuing education courses.

What are Contact Hours? Contact hours are the actual amount of time you spend interacting with an instructor in a class or a lab.

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03. Degree and Certificate Plans

Your degree or certificate plan is your roadmap to graduation. It lists all the courses you must complete to earn your specific degree or certificate, along with any **electives** you are approved to take. Your **Enrollment Coach** will work with you to select electives that align with your goals and add them to your plan. You can earn your course credits right here with us at TSTC, transfer them from another college or university, or even earn them by taking an examination.

Please see our Statewide Operating Procedures [ES 2.10 CREDIT AWARD FOR ASSESSMENT AND TRAINING](#) for more information on earning credits by examination.

Course Substitutions

Sometimes you may need to substitute one course for another in your plan. Students are required to provide adequate documentation about the course to be used as a substitute when requesting the substitution of credit. This documentation is reviewed by the Director of Alignment to ensure course equivalence. Please keep in mind that there is no guarantee a course substitution will be approved. We look at every request individually on its own merit.

Transfer Credit

The **Office of the Registrar** (the department responsible for maintaining your academic records and processing official transcripts) processes all transfer credit using the **Texas Common Course Numbering System (TCCNS)** [Transfer Guide](#) for courses offered at Texas public institutions.

What is the Texas Common Course Numbering System (TCCNS)? *The TCCNS is a statewide system that assigns uniform course numbers to general academic courses, making it easier to transfer credits between Texas public colleges and universities.*

To transfer a course, you must have earned a grade of "D" or better. However, if the course is for your major or closely related to your major, we cannot accept grades lower than a "C". Any credits you earned at other colleges and universities must be approved for transfer credit by the Subject Matter Expert in your major field of study. If you are transferring courses in related areas, the Subject Matter Expert for that specific program area may also need to approve them. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught has final authority for awarding transfer credit. See our Statewide Operating Procedures [ES 3.12 Transfer and Substitution of Credit](#) for additional information.

If you are in a Health Sciences program please note that these programs may have particular acceptance of academic course policies outlined in their program application documentation or program handbook references.

Certification for Graduation

You will be **certified for graduation** only when you have earned credit for all required courses and met all graduation requirements. Before this happens, any approved course substitutions or transfer credit authorizations must be officially on file with our Office of the Registrar. Please note, at least 25% of your total program credit hours must be completed at TSTC to be eligible for graduation. You must also meet your program's minimum **Grade Point Average (GPA)**. Although our friendly advisors are here to assist you, you are ultimately responsible for keeping track of your own progress toward meeting your program requirements. If you ever need help figuring out where you stand, please contact your Enrollment Coach for assistance!

For a full breakdown of graduation requirements please see our Statewide Operating Procedure [ES 4.17 REQUIREMENTS FOR GRADUATION](#).

Additional Degrees and Certificates

Did you know you can earn more than one **credential**? The credit hours you earn may be applied toward more than one degree and/or certificate, as long as those hours meet the specific requirements of those credentials.

Definition Guide:

What are Credentials? *Credentials are the official degrees or certificates you are working to earn.*

What are Electives? *Electives are courses that you can choose from a set of approved options to fulfill part of your*

degree requirements.

What is an Enrollment Coach? An Enrollment Coach is a staff member who guides you through course selection, registration, and degree planning to ensure you meet all graduation requirements.

What is a Subject-Matter Expert (SME)? A subject-matter expert is a faculty member or academic professional with specialized knowledge in a particular field who reviews transfer coursework to determine if it is equivalent to courses offered at TSTC.

What is the Office of the Registrar? The Office of the Registrar is the administrative office that manages student records, processes transfer credits, and certifies students for graduation.

What does it mean to be Certified for Graduation? Certification for graduation means we formally confirm you are ready to receive your diploma.

What is a Grade Point Average (GPA)? Your GPA is a numerical measure of your overall academic performance. It is calculated by dividing the total number of grade points you earn (based on your letter grades) by the total number of credit hours you attempt.

04. Change of Major

We understand that your academic goals might shift, and we are here to support you! You may change your major, but you can only do so during specific windows between terms. Specifically, you must make the change prior to:

Semester Length Change by

15-week	The 11th class day
12-week	The fifth class day
10-week	The fourth class day
6-week	The fourth class day

If you are considering a program change, we strongly encourage you to [meet with an Enrollment Coach](#) first. You must meet any specified entry requirements for the new program, and if you receive financial aid, you should also speak with the [Enrollment Center](#) before making the change to understand how it might impact your funds.

What is an Enrollment Coach? An Enrollment Coach is a staff member who helps you navigate registration, degree planning and program changes to keep you on track toward graduation.

What is the Enrollment Center? The Enrollment Center is the office that manages your registration, records and financial aid coordination.

How to Change Your Major

You have two options for submitting a change of major:

Option 1: Submit an Electronic Request

1. Log in to Workday, the college's Student Information System.
2. Go to "Academics" on your profile overview page.
3. Click the button "Add Program of Study" if you are adding a new program.
4. To change an existing program, click the "Request" button.
5. Complete the questionnaire with information about your desired location and effective date.
6. Submit your request. An Enrollment Coach will review and approve your change.

What is the Student Information System? The Student Information System is the online platform where you manage your academic records, register for classes and submit official requests like program changes. Our student information system is Workday Student.

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Option 2: Complete a Change of Major Form

1. Obtain a Change of Major Form from your Enrollment Coach or the Enrollment Center.
2. Complete the form and gather all required signatures.
3. Return the completed form to your Enrollment Coach for processing.

Additional Requirements

Depending on the program you wish to enter, you may be required to meet additional admission criteria. Your Enrollment Coach will inform you of any extra steps you need to take to be accepted into your new major.

05. Institutional Awards

At TSTC, we offer technical training in defined skill sets that can be grouped in various combinations to meet the specific job requirements of Texas business and industry. These **pathways** are designed with flexibility in mind—whether you're a new student or an **incumbent worker**, you can enter, exit and re-enter TSTC training as your career needs and life circumstances evolve.

What are Pathways? *Pathways are structured sequences of courses and credentials that build upon one another, allowing you to progress from entry-level skills to advanced technical expertise over time.*

What is an Incumbent Worker? *An incumbent worker is someone who is already employed and seeks additional training or credentials to advance in their current career or transition to a new role.*

Credits you earn in these pathways may be applied toward a variety of **institutional awards**, including:

- Occupational Skills Awards (OSA): This is a short-term award showing you have mastered specific job skills.
- Certificates of Completion: This is a document proving you have finished a specific technical training program.
- Associate of Applied Science (AAS) degrees: These are two-year college degrees focused on preparing you directly to enter the workforce.
- Associate of Science degree: These are two-year college degrees focused on preparing you to transfer to a university. These are only offered at the Harlingen location.

These stackable credentials allow you to build your education incrementally, earning recognized awards at each stage that demonstrate your growing expertise to employers.

What is an Institutional Award? *An institutional award is a credential—such as a certificate or degree—that TSTC grants to you upon successful completion of a defined set of courses and requirements.*

06. Course Load

If you are a student in **good standing** you may register for the course load specified in your instructional program.

You are welcome to register for a lighter schedule than normal, but please keep in mind that you must register for a minimum of 12 **credits** to be considered a full-time student.

What does "good standing" mean? *Good standing means you maintain a minimum 2.0 cumulative and term GPA, meet the college's conduct expectations, and are eligible to continue enrolling in classes.*

What is a credit? *A credit (also called a credit hour) is a unit that measures how much time you spend in class and on coursework. Most courses are worth a specific number of credits based on their workload.*

If you would like to take on a heavier schedule, you may register for up to 18 credits. If you want to enroll in more than 18 credits, we require you to get approval from the appropriate **Program Team Lead** and **Senior Manager for Campus Enrollment**.

Who is the Senior Manager for Campus Enrollment? *The Senior Manager for Campus Enrollment is a college official*

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who oversees student registration and enrollment processes at your campus.

What is a Program Team Lead? A Program Team Lead at TSTC typically serves as the primary lead for a specific instructional program or cluster of programs.

07. Classification

At our school, we base your **classification** on the number of college credit hours you have earned. We will classify you as a freshman if you have earned less than 30 hours of college credit. Once you have earned 30 to 72 hours of **college credit**, we will classify you as a sophomore.

What is a college credit? A college credit (also called a credit hour) is a unit that measures how much time you spend in class and on coursework. Most courses are worth a specific number of credits based on their workload.

Why does classification matter? Your classification helps us track your academic progress and may affect your eligibility for certain scholarships or academic support services.

08. Grading Standards

At TSTC, we measure your achievement of skills, knowledge and **competencies** through a system of grading standards. Four grades (A, B, C, D) indicate that you received credit and earned a grade. One mark (CR) indicates that you received credit but no grade was awarded. One grade (F) and various other marks indicate that you did not receive credit and no grade points were awarded.

Note: This minimum grade requirement may vary for some of our health-related programs.

What are Competencies? Competencies are the specific abilities and practical skills required for your career field.

For information beyond what is contained here in the handbook please see our Statewide Operating Standard [ES 4.06 GRADING SYSTEM](#).

Traditional Grading Standards

The following system of final grades and marks applies to courses offered in a traditional format. We use grades or marks to report your performance for each course you attempt and/or credit toward graduation.

Note: The grading standards listed below do not apply to Performance-Based Education (PBE).

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Grade Interpretation		Grade Points
A	Excellent/Superior Performance Level	4
B	Above Required Performance Level	3
C	Minimum Required Performance Level	2
D	Below Required Performance Level	1
F	Failure to Meet Performance Requirements	0
	Pass/Meets Required Performance Level	
P	For use in a developmental course or a specialized course. At our discretion, the grade of a "P" may also be used for up to six credit hours in a program. During critical extenuating circumstances we may allow more than six hours of Pass/Fail to be applied and additional course offerings may be made available for Pass/Fail grading. The grade of "P" should only be applied to developmental or Technical WECM courses .	NC (Not Calculated)
	In Progress	
IP	For use when you have not had sufficient time to complete the course due to your registration date, extended illness or other circumstances beyond your control. The grade of "IP" will be changed to a grade of "F" if you do not complete the course requirements by a date specified by your faculty member or within one year from the end of the term in which the "IP" grade was issued, whichever is less.	NC
	Incomplete-Military Leave	
IM	For use by students who are called to active military service near the end of a term. The grade of "IM" will be changed to a grade of "W" if you do not complete the course requirements within two years of the date the "IM" grade was awarded.	NC
W	Withdrawal	NC
	Credit	
CR	Represents credit for courses that we accept toward your program completion and graduation as a result of transfer from other institutions or programs, advanced standing evaluation , credit by examination, articulation agreements , or other validations of course-required knowledge and skills.	NC
	Audit of Course	
AUD	Taking a class for your own learning without earning academic credit.	NC
	Satisfactory	
S	For use in Continuing Education courses and programs—short-term, non-degree training.	NC
	Unsatisfactory	
UN	For use in Continuing Education courses and programs—short-term, non-degree training.	NC
	No Pass	
NP	Represents a grade of "Unsatisfactory" and may be used at our discretion during critical extenuating circumstances. A grade of "NP" does not meet the required performance level for the course. Grades of "NP" will count as hours you attempted, but they have no effect on your GPA.	NC

What is a Developmental Course? A developmental course is a preparatory class that builds basic academic skills.

What are Extenuating Circumstances? Extenuating circumstances are unavoidable emergencies beyond your control.

What are Technical WECM Courses? Technical WECM (**W**orkforce **E**ducation **C**ourse **M**anual) courses are our standard technical courses in Texas. The WECM is the [Texas Higher Education Coordinating Board's \(THECB\) web-based inventory of approved workforce education courses](#) available for use by the state's public community and technical colleges. WECM courses are sometimes referred to as technical courses.

What is an Advanced Standing Evaluation? An advanced standing evaluation is when we review your prior experience for credit.

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What are Articulation Agreements? Articulation agreements are formal transfer partnerships between schools.

Performance-Based Education (PBE) Grading Standards

The following system of final grades and marks applies to courses offered in a **Performance-Based Education (PBE)** format. We use grades or marks to report your performance for each course you attempt and/or credit toward graduation.

What is Performance-Based Education (PBE)? Performance-Based Education (PBE) is TSTC's competency-based education framework. In PBE, you progress by mastering specific skills rather than by meeting traditional deadlines. This approach prepares you for your career by focusing on your ability to demonstrate real-world competencies.

Technical Courses:

In PBE technical courses, you must earn at least a "B" to receive credit.

What are Technical Courses? Technical Courses, or [Technical WECM \(Workforce Education Course Manual\) courses](#), are technical program

courses and are developed in close partnership with instructional specialists representing a wide variety of technical fields.

Grade Interpretation		Grade Points
A	Excellent/Superior Performance Level	4
B	Above Required Performance Level	3
F	Failure to Meet Performance Requirements	0
	Incomplete-Military Leave	
IM	For use by students who are called to active military service near the end of a term. The grade of "IM" will be changed to a grade of "W" if you do not complete the course requirements within two years of the date the "IM" grade was awarded.	NC (Not Calculated)
W	Withdrawal	NC
	Credit	
CR	Represents credit for courses that we accept toward your program completion and graduation as a result of transfer from other institutions or programs, advanced standing evaluation , credit by examination, articulation agreements , or other validations of course-required knowledge and skills.	NC
	Audit of Course	
AUD	Taking a class for your own learning without earning academic credit.	NC
	Satisfactory	
S	For use in Continuing Education courses and programs—short-term, non-degree training.	NC
	Unsatisfactory	
U	For use in Continuing Education courses and programs—short-term, non-degree training.	NC
	No Credit Earned	
NE	The grade of "NE" is non-punitive and is not calculated in grade-point averages. A grade of "NE" can be assigned to you if you enroll in performance-based courses that are over 12.00 Semester Credit Hours (full-time status) in one term and you have not had sufficient time to complete the course due to your registration date.	NC
	Not Applicable	
NA	The grade of "NA" is non-punitive and is not calculated in grade-point averages. A grade of "NA" may be used for a midterm grade in a scheduled PBE course in which you have not yet reached the midpoint of the course.	NC

What does Non-Punitive mean? Non-punitive means that it will not negatively impact your grade point average.

What does NE (No Credit Earned) mean? The grade of NE is a non-punitive mark that does not affect your GPA. We may assign you an NE if you enroll in more than 12 credit hours of performance-based courses in one term and have not had enough time to complete the course due to when you registered.

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What does NA (Not Applicable) mean? The grade of NA is a non-punitive mark that does not affect your GPA. We may use NA as a midterm grade in a scheduled PBE course when you have not yet reached the midpoint of the course.

Academic and Developmental Education Courses:

In PBE academic and developmental courses, you must earn at least a "C" to receive credit.

Grade Interpretation		Grade Points
A	Excellent/Superior Performance Level	4
B	Above Required Performance Level	3
C	Minimum Required Performance Level	2
F	Failure to Meet Performance Requirements	0
	Incomplete-Military Leave	
IM	<i>For use by students who are called to active military service near the end of a term. The grade of "IM" will be changed to a grade of "W" if you do not complete the course requirements within two years of the end date of the term in which the "IM" grade was awarded.</i>	NC (Not Calculated)
W	Withdrawal Credit	NC
CR	<i>Represents credit for courses that we accept toward your program completion and graduation as a result of transfer from other institutions or programs, advanced standing evaluation, credit by examination, articulation agreements, or other validations of course-required knowledge and skills.</i>	NC
AUD	Audit of Course <i>Taking a class for your own learning without earning academic credit.</i>	NC
S	Satisfactory <i>For use in Continuing Education courses and programs—short-term, non-degree training.</i>	NC
UN	Unsatisfactory <i>For use in Continuing Education courses and programs—short-term, non-degree training.</i>	NC

Note: If you have **transcribed courses** from a traditional program and you move into a PBE program, you will receive credit for your previously transcribed courses. The grades you received in the original course(s) will transfer into the PBE program as determined by the program administrator.

What are Transcribed Courses? Transcribed courses are classes that are already officially recorded on your academic transcript.

Notification of Grades

We expect you to actively monitor your own academic progress. Your grades are available upon course completion, and you can view them by accessing your **Student Information System portal**. Please review your grade reports carefully for accuracy. All requests for review or correction must be submitted to your Enrollment Coach within 12 months of the close of the semester in which you took the course.

What is the Student Information System portal? The Student Information System portal is your online gateway to view your grades, register for classes, check your account balance, and access other important academic and financial information. We use Workday Student as our Student Information System.

Grade Changes

Your grades are among the most important records we keep at the College. Our policies and procedures ensure the privacy and integrity of your grade records while giving you a process to appeal final course grade decisions.

You must follow the policies and procedures below to request a grade change:

- You must request a grade change within one year from the end of the term for which the original grade was issued.
- We may change a grade for the following reasons:

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- Due to an error,
- Your completion of coursework previously graded "IP" (In Progress), or
- Through a fact-supported finding by appropriate members of our administration or appeal committee operating in accordance with established college procedures.
- We cannot change a grade to a "W" (Withdrawal) unless doing so is in conjunction with an **administrative drop** or withdrawal from the College that is approved in accordance with college procedures.
- A change of grade form must be completed or submitted via the Student Information System (Workday). The reason for the grade change must be noted on the form and it must be signed by your instructor, the appropriate department designee, and the Office of the Registrar.
- When the Office of the Registrar receives your completed and signed grade change form or request via Workday, they will make the official change to your transcript record.
- If submitted via a paper form, we will place a copy of the change of grade form in your permanent file for audit purposes.

What is an Administrative Drop? An administrative drop is when the school officially removes you from a class.

For more information on grade changes please see our Statewide Operating Standards [ES 4.13 CHANGING A GRADE ON A STUDENT'S PERMANENT ACADEMIC RECORD](#) as well as [ES 4.06 GRADING SYSTEM](#).

09. Grade Point Averages

Your grade points for each course are calculated by multiplying the point value of your grade by the number of credit hours the course carries. For example, if you take a three-hour course and earn an "A," you accumulate 12 grade points for that course:

3 hours × 4 points for an "A" = 12 points

Your grade-point average (GPA) is calculated by adding the grade-point values for all college-level courses for which grade-point values may be computed (A, B, C, D, F, FA, U, WF), and dividing this total by the number of credit hours attempted during the same period. Only hours for which grades are awarded are used in calculating your GPA.

Term Grade-Point Average

Your Term GPA is calculated for all TSTC college-level courses with grades of A, B, C, D, and F recorded during a specific term. Developmental education courses are excluded from the Term GPA calculation.

Cumulative Grade-Point Average

Your Cumulative GPA is calculated for all TSTC college-level courses using all the grades and grade points you have earned since you first enrolled at TSTC. Developmental education courses are excluded from the Cumulative GPA calculation. We use your Cumulative GPA to determine your eligibility for graduation and for graduation honors.

10. Scholastic Standing

At TSTC, our scholastic standards are built on a philosophy of helping students progress toward successful course and program completion. The criteria for scholastic standing are designed to monitor your progress so that faculty and staff can step in and assist you if you are having difficulty meeting minimum requirements. Your scholastic standing is calculated at the end of each enrollment period and is based on term and cumulative GPAs.

Good Standing

You will be in good academic standing as long as you maintain a minimum 2.00 for both your cumulative and term grade point averages.

Scholastic Probation

If your cumulative or term grade point average drops below a 2.00 at the end of an enrollment period, we will place you on scholastic probation. Scholastic probation is an official warning status meaning you are still enrolled, but you need to raise your grades to stay in your program. You will be removed from scholastic probation and return to good standing as soon as both your cumulative and term grade point averages reach a 2.00 or higher.

Scholastic probation is a serious warning that the quality of your work must improve for you to continue enrollment at the College. If you are on scholastic probation, you must meet with a program advisor or enrollment coach before registration to discuss options for improving your grade point average.

Scholastic Suspension

If you are already on scholastic probation and both your term GPA and cumulative GPA remain below a 2.00, you will be placed on scholastic suspension. Scholastic suspension means you are required to take a forced break from taking classes at the College for a designated period of time (a minimum of one semester). You may submit an appeal to waive

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suspension to Retention Services in Workday. If your appeal is approved or you re-enter the College after having been suspended, you will be placed on scholastic probation.

For full details, please read our official policy: [Statewide Operating Procedures ES 3.02 SCHOLASTIC STANDARDS](#)

11. Scholastic Honors

Term Scholastic Honors

We want to celebrate your hard work! If you are enrolled full-time as of the end of the term and earn a Term Grade Point Average of 3.50–3.99, you will be recognized on the Vice Chancellor's Honor Roll and we will also add a notation of "Scholastic Excellence" to your academic record.

If you are enrolled full-time as of the end of the term and earn a Term Grade Point Average of 4.00, you will be recognized on the Chancellor's Honor Roll, and this honor will appear on your academic record.

Graduation Scholastic Honors

We also love to recognize your outstanding achievements when it is time for you to graduate. Whether you graduate with an Associate Degree, Applied Associate Degree or Certificate of Completion (credit-based program), we will award you graduation honors based on your cumulative grade point average:

Board of Regents Honors: 4.00

With Honors: 3.50–3.99

What is a Cumulative Grade Point Average? Your cumulative GPA is calculated using all college-level courses you have completed at TSTC, excluding developmental courses. This is the GPA that will be used to determine graduation honors.

Your graduation honors will be proudly listed on your official transcript.

Please view our Statewide Operating Procedures [ES 3.13 CRITERIA FOR SCHOLASTIC HONORS](#) for more information.

12. Transcript of Credit

Your **transcript of credit** is the official statement of your complete academic record accumulated at TSTC. Whether you are applying for a job or transferring to another school, this document serves as the formal proof of your hard work and achievements.

What is a Transcript of Credit? A transcript of credit is a permanent record of every course you have taken at TSTC, the grades you earned and any certificates or degrees you have been awarded.

How to Request Your Transcript

When you need a copy of your record, you can submit a written or online request to any TSTC campus. Our Enrollment Center will then release your official transcripts to you or to any third party you have authorized to receive them.

Processing Times

We aim to process your transcript requests within 24 hours. However, please plan ahead if you are making a request at the end of a term or during a holiday, as processing may take a little longer during those busy times.

If you are requesting your transcript before the current term ends, but want your current courses and grades to be included, please be sure to clearly note this in your request.

Transcript Holds

There are certain situations where we may have to withhold your official transcripts, such as, an outstanding financial debt to the college, a pending disciplinary process, or other **holds** on your account.

What is a Hold? A hold is a notice on your student account that flags an unresolved issue—such as an unpaid fee or a missing document—which may prevent you from accessing services like registration or transcript releases until the matter is settled.

Please view our Statewide Operating Procedures [GA 1.5.2 STUDENT RECORDS \(FERPA\)](#) for more information.

13. Repeat Courses

At Texas State Technical College, we want to help you achieve your very best. Because of this, you may repeat a course, but only if the grade you earned the first time was below an "A."

What is a Repeat Course? A repeat course is when you retake a class you have already completed, usually to improve your grade or meet a higher standard required by your program.

When you repeat a course where your initial grade was below an "A," we will exclude the first grade, and only the last grade you earn will count toward your cumulative grade point average. Please keep in mind that the most recent grade will be the one that counts, regardless of whether it is higher or lower than your first grade.

For full details, please review our official policy: Statewide Operating Standard (SOS) [ES 4.15 REPEATED COURSES AND GPA CALCULATION](#).

What is a Cumulative Grade Point Average (GPA)? Your cumulative GPA is the overall average of all your grades across all terms at TSTC. It's calculated by dividing the total quality points you've earned by the total credit hours you've attempted.

Important Note for Financial Aid Recipients:

While repeating a course can improve your cumulative GPA, all course attempts—including the original grade—still count toward your financial aid eligibility. Federal financial aid will typically cover only one repeat of a previously passed course. If you have questions about how repeating a course may affect your financial aid, contact the Financial Aid Office before you register.

09. Graduation and Commencement

01. Graduation Requirements

We want to make sure you have a clear path to finishing your program. Within five years of initial enrollment in credit courses at Texas State Technical College, a student may graduate with a degree or certificate according to the **catalog** requirements in effect at the time of first enrollment at the college provided the degree, certificate, technical program and requisite courses are still being offered.

If a student fails to complete within five years all requirements of the catalog in effect at the time of initial enrollment, the student will be required to graduate under a catalog not older than five years.

Interruptions in Enrollment

Students who have an interruption or break in their enrollment at TSTC and return later to complete their program of study will be required to update the program of study regardless of **modality**. Program requirements in effect at the time of re-enrollment will apply.

Exceptions

We understand that life can be unpredictable. If you experience **extenuating circumstances**, an exception to these requirements at the time of re-enrollment may be approved. Any exceptions must be approved by the appropriate designated College official.

Definition Guide

What is a Catalog? A catalog is an official publication that describes the academic programs, course descriptions and the rules and regulations you must follow while attending the college.

What is Modality? Modality refers to the way your courses are delivered, such as in-person, online or a hybrid of both.

What are Extenuating Circumstances? Extenuating circumstances are serious, unexpected events beyond your control—such as a documented medical emergency or a family crisis—that significantly impact your ability to meet standard requirements.

02. Graduation Procedures

You've worked hard throughout your time at TSTC, and now you're approaching the finish line. Here's what needs to happen for you to officially graduate and earn your credential.

The Registrar (or their designee) will review your academic record and certify that you have met all graduation criteria and requirements for your degree or certificate.

We will notify you of your eligibility for graduation once you have achieved all of the following requirements for your applicable degree or certificate:

What You Need to Graduate: 1. Complete All Required Coursework

You must satisfactorily complete every course listed in your degree or certificate plan. This means passing each required class with the appropriate grade.

2. Earn at Least 25% of Your Credits at TSTC

At least 25% of the total required credit hours for your program must be earned directly at TSTC. This is known as the **residency requirement** and ensures that a meaningful portion of your education comes from our institution.

3. Maintain a 2.0 Cumulative GPA

Your cumulative grade point average must be 2.0 or higher across all coursework applied to your degree or certificate.

4. Meet Grading Requirements for Your Major Courses

The minimum grade you need in your major courses depends on how those courses are taught:

- **Courses Taught in Traditional Format**

Your grades in all major courses must be C or better. Courses with a grade of "Pass" may be counted toward your degree requirements.

Note: This minimum grade requirement may vary for some TSTC health-related programs. Check with your program advisor if you are in a health sciences field.

- **Courses Taught in Performance-Based Education (PBE) Format**

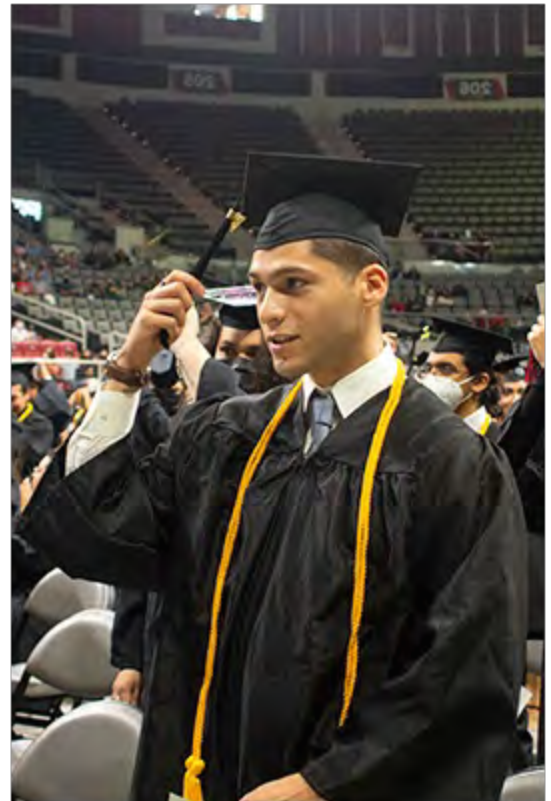
Your grades in all major courses must be B or better.

Important: If you have transcribed courses from a traditional program and later move into a PBE course, you will receive credit for your previous transcribed course, if applicable, as determined by your program administrator.

5. Have All Transfer Credits Officially Accepted and Applied

All transfer credits accepted by TSTC and applied to your degree or certificate must have been credited according to our approved procedures for evaluation and award of credit. For more information, see our Statewide Operating Procedures [ES 3.12 TRANSFER AND SUBSTITUTION OF CREDIT](#).

The Office of the Registrar evaluates all transfer credits using the **Texas Common Course Numbering System (TCCNS) Transfer Guide** for courses offered at state institutions.



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You are responsible for providing the necessary documentation about your transfer course(s), such as course descriptions, syllabi or catalogs from your previous institution.

6. Have No Pending Disciplinary Issues

You must have no pending disciplinary issues as defined in the TSTC Catalog and Student Handbook. This means your conduct record must be clear before you can be certified for graduation.

7. Settle All Financial Obligations

Important: You must settle all financial obligations to TSTC before you can graduate. If you have any outstanding balance or pending business with TSTC by commencement, we will withhold your official TSTC transcript until you receive clearance approval.

Questions? If you have any questions about your graduation eligibility or need help understanding your status, contact your [Enrollment Coach](#) or the Office of the Registrar. We're here to help you cross the finish line.

Definition Guide:

What is a Residency Requirement? *The residency requirement is a rule that mandates you complete a minimum percentage of your program's credit hours at TSTC, rather than transferring them all in from other schools.*

What is Performance-Based Education (PBE)? *Performance-Based Education (PBE) is TSTC's competency-based education framework. In PBE, you progress by mastering specific skills rather than by meeting traditional deadlines. This approach prepares you for your career by focusing on your ability to demonstrate real-world competencies.*

What are Transcribed Courses? *Transcribed courses are classes officially finalized and recorded on your academic record.*

What is the Texas Common Course Numbering System (TCCNS)? *The TCCNS is a statewide system that assigns uniform course numbers to general academic and some technical courses offered at Texas public colleges and universities. This makes it easier to transfer credits between schools because the same course number means the same content.*

What if My Courses Aren't in the TCCNS?

If your courses are:

- Not listed in the TCCNS,
- From an out-of-state institution, or
- From a foreign institution,

We will forward them to the appropriate department or **subject-matter experts** for further review and approval.

What is a Subject-Matter Expert (SME)? *A subject-matter expert is a faculty member or academic professional with specialized knowledge in a particular field who reviews transfer coursework to determine if it is equivalent to courses offered at TSTC.*

What if There's a Dispute About My Transfer Credits?

If you disagree with a transfer credit decision or wish to appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation, or a designee who oversees the department in which the course is taught, has final authority for awarding transfer credit.

See our Statewide Operating Procedure [ES 3.12 TRANSFER AND SUBSTITUTION OF CREDIT](#) for additional information.

What does it mean to Settle Financial Obligations? *Settling your financial obligations means paying any remaining tuition, fees, fines, or other charges you owe to the college. Until your account is cleared, you will not receive your official transcript.*

03. Graduation Honors

We love to celebrate your hard work and academic success! When you complete your Associate Degree, Applied Associate Degree, or credit-based Certificate of Completion at TSTC, we recognize outstanding academic achievement through graduation honors. These honors appear on your official transcript and celebrate the hard work you've put into your studies.

TSTC Board of Regents Honors

If you earn a **Cumulative GPA** of 4.0, you will receive TSTC Board of Regents Honors, our highest academic recognition at graduation.

Honors



If you earn a **Cumulative GPA** between 3.50 and 3.99, you will receive Honors at graduation.

Both of these distinctions reflect your dedication to excellence and will be proudly displayed on your transcript as you move forward in your career or continue your education.

What is a Cumulative GPA? Your Cumulative GPA is your overall grade point average for all college-level courses that count toward your degree or certificate. It does not include developmental education courses.

04. Commencement Ceremonies

Attending your **commencement ceremony** is completely voluntary, but we encourage you to celebrate your accomplishments by walking across the stage.

Participating Before Official Certification:

Students may participate in a graduation ceremony upon the recommendation of faculty, even before their degree has been officially certified. This is because commencement ceremonies are generally held before final grades are officially recorded and certification of graduation status has occurred.

If you choose not to attend, you can pick up your diploma, cover, cords and Board of Regents medallion at the Enrollment Center

once your **degree has been certified**. You also have the option to have these items mailed to the address we have on file in our administrative database.

If you plan to participate in the commencement ceremony, you must wear TSTC-designated regalia, which includes your cap, gown and tassel. You can purchase these items at the [TSTC Campus Store](#). Dual credit graduates may also wear approved high school regalia in recognition of their high school affiliation.

If you need accommodations for commencement, such as accessibility support or other assistance, please contact [Access and Learning Accommodations](#) before the ceremony so we can make the necessary arrangements.

What is a commencement ceremony? A commencement ceremony is a formal graduation event where you will walk across the stage and be presented with your hard earned certificate or diploma.

What does "Certification of Degrees" mean? Certification is the official process where the Registrar confirms that you have met all graduation requirements, including completing your coursework, maintaining the required GPA and fulfilling any financial obligations.

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What is Access and Learning Accommodations? This is the office that provides support services and accommodations to students with disabilities or other needs to ensure equal access to college programs and events.

05. Diploma Reprint Request

Once you have graduated, if you need a replacement diploma because your original was lost, damaged or you just want a copy, we can help you get a new one printed.

To request a diploma reprint, follow these steps:

1. Get the diploma reorder form from the Office of the Registrar.
2. Complete the form with all required information.
3. Submit your completed form to registrars@tstc.edu for processing.

The **Office of the Registrar** will review your request and process your diploma reprint. If you have questions about the form or the reprint process, contact the Office of the Registrar directly.

What is the Office of the Registrar? The Office of the Registrar is the department responsible for maintaining your academic records, processing transcripts and handling diploma requests.

06. Graduate Guarantee

If a graduate from a credit-bearing program is judged by his/her employer to be lacking in technical job skills identified as exit competencies for the program under which the student graduated or completed, TSTC will provide the graduate with up to nine tuition-free semester credit hours of additional skill training, in accordance with the following:

1. The graduate must have earned the degree, certificate or award in a technical or occupational program or pathway published in the TSTC catalog.
2. The graduate must have earned at least 75 percent of the total credits of the associate degree or certificate of completion at TSTC and must have completed the degree or certificate of completion within five years of initial enrollment.
3. The graduate must be employed full-time in an area directly related to the program concentration, as certified by the Provost.
4. The employment must have commenced within 12 months of graduation or completion.
5. The Graduate Guarantee process must be initiated in writing to the TSTC Office of the Chancellor and CEO by either the graduate or the employer.
6. The employer must certify in writing that the employee is lacking entry-level skills identified by TSTC as program exit competencies and must specify the areas of deficiency within 90 days of the graduate's initial employment.
7. The employer, the graduate, career counselor and appropriate chairperson will develop a written educational plan for retraining.
8. Retraining will be limited to nine semester credit hours related to the identified skill deficiency and to those classes regularly scheduled during the period covered by the retraining plan.
9. All retraining must be completed within one calendar year from the time the educational plan is agreed upon.
10. The graduate and/or employer will be responsible for the cost of books, insurance, uniforms, fees and/or other course-related expenses.
11. The guarantee does not imply that the graduate will pass any licensing or qualifying examination for a particular career.

A student's sole remedy against TSTC and its employees for skill deficiencies shall be limited to nine semester credit hours of tuition-free education, as described above.

07. The TSTC Alumni Network

The TSTC Alumni Network serves and supports Texas State Technical College, its students and alumni. Through the Alumni Network, students and alumni can connect with job opportunities (hireTSTC) and participate in job fairs. For more information on job search assistance for alumni, contact your campus Career Services representative.

10. Academic Planning

01. Areas of Study

With more than 40 programs in a wide range of industries, we've got the high-demand skills training for the career you want.

You can explore your future in the following areas:

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[Allied Health](#)

[Aviation](#)

[Computer & Information Technology](#)

[Construction & Maintenance](#)

[Engineering & Manufacturing](#)

[Environmental & Safety](#)

[Hospitality](#)

[Online Programs](#)

[Transportation](#)

02. Degree & Certificate Options

TSTC offers stackable credentials designed to help you build your expertise step by step, whether you're starting your career, advancing in your current field, or preparing to transfer to a four-year university. Each option serves a specific purpose and can be combined to create a personalized pathway to your goals.

Please refer to the official curriculum and degree plans for your [specific program](#) for the most up-to-date requirements.

Associate of Science

The Associate of Science degree is designed specifically for students who plan to transfer to a four-year university. This two-year undergraduate degree emphasizes math, science, and general education courses, providing the foundational coursework you need to make a smooth transition into a bachelor's degree program. We offer this degree in biology, engineering, and physics.

Note that only residents of the Rio Grande Valley who are attending [TSTC in Harlingen](#) are eligible to enroll in these programs.

Associate of Applied Science

The Associate of Applied Science degree is the core credential for TSTC's technical programs. Our AAS programs combine hands-on training with academic coursework — including general education courses — to give you the technical skills and knowledge employers are looking for. These two-year degrees focus on technical and vocational training, preparing you for direct entry into the workforce as a high-demand technician at a skill level between an engineer and skilled craftsman.

Certificates of Completion

Our Certificates of Completion teach you the specific skills you need for entry-level jobs in a particular field. You earn this credential by completing a focused set of courses and specialized training in a technical area. These programs range from 15 to 51 semester credit hours and are designed to be completed in a shorter timeframe than a degree, allowing you to enter the workforce quickly with the practical expertise you need to start your career.

Advanced Technical Certificate

If you have already completed an Associate of Applied Science (AAS) degree or higher, an Advanced Technical Certificate is generally designed to help you gain specialization in a particular career to supplement your degree. This credential ranges from 16 to 45 semester credit hours and provides advanced training beyond an associate's degree to help you deepen your expertise in a specific technical area.

Occupational Skills Award

We offer Occupational Skills Awards as short-term, skills-focused programs which consist of 9 to 14 semester credit hours and provide you with the basic technical skills needed to start an entry-level career. These programs meet [Texas Workforce Commission](#) standards and focus on teaching you specific job skills needed for immediate employment in a particular field.

Core Curriculum Completion Certificate

A Core Curriculum Completion Certificate is awarded to all students who complete the TSTC **general education core**. This credential verifies you have completed the general education requirements recognized across Texas public colleges and universities. The [state of Texas guarantees](#) that any public four-year university will accept a complete general education core transferred from any other Texas public college, meaning you will not be required to repeat those courses. You can complete your core coursework at TSTC and transfer it with confidence.

Note that only residents of the Rio Grande Valley who are attending [TSTC in Harlingen](#) are eligible to enroll for the Core Curriculum Completion Certificate.

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What is the General Education Core? *The general education core is a state-mandated set of foundational courses spanning nine component areas—including English, mathematics, life and physical sciences, language/philosophy/culture, creative arts, U.S. history, government/political science, social and behavioral sciences, and a component area option — that all students must complete, regardless of their major.*

03. Money-Back Guarantee

MONEY-BACK GUARANTEE OVERVIEW:

The Texas State Technical College (TSTC) Money-Back Guarantee (MBG) program exemplifies TSTC's unwavering commitment to student success by ensuring graduates are well-prepared and equipped for industry. This program not only offers financial reassurance but also enhances the employability of our students through strategic support and skill development.

PROGRAM ELIGIBILITY:

All technical programs are included in the MBG program.

The MBG program excludes degrees focused on continued education (AS degrees, Academic Core Curriculum and Pre-Allied Health).

Satisfactory grade completion of HIRE 1000 determines eligibility for the Money-Back Guarantee program after graduation.

Contact the Money Back Guarantee Program Specialist (mbg@tstc.edu) for more information.

04. Course Information

Developmental Education Courses

At TSTC, we provide courses and learning activities designed to help you improve your reading, writing and math skills so you are prepared to succeed in college-level courses. **Developmental education courses** do not count as credit toward graduation, but they are used along with **credit courses** when we determine your course load, scholastic standing and your satisfactory academic progress for financial aid.

What are Developmental Education Courses? *These are classes designed to build your foundational academic skills before you tackle standard college-level work. These courses do not count as credit courses and cannot be transferred to other colleges or universities.*

What are Credit Courses? *Credit courses are classes for which you are eligible to earn semester credit hours toward an institutional award, certificate or associate degree. These credits serve as a unit of measure for your progress, become a permanent part of your official academic record, and can often be transferred to other colleges or universities.*

Why do I need Developmental Education Courses?

In compliance with the Texas Success Initiative (TSI), TSTC assesses all entering students in reading, writing and math skills unless the student qualifies for an exemption or has demonstrated college readiness through successful completion of related college-level coursework.

Students who do not meet the college-readiness benchmark will be:

1. **Assessed** through the TSI Assessment (or approved alternative);
2. **Placed** into appropriate developmental education coursework or co-requisite support; and
3. **Advised** based on a personalized plan for academic success, as required by the TSTC Texas Success Initiative Plan.

How Developmental Courses Affect Your Academic Standing and Financial Aid

Developmental education courses are counted toward:

- Your course load (full-time/part-time enrollment status);
- Your Satisfactory Academic Progress for federal and state financial aid; and
- Your lifetime limit of six course drops (a Texas state rule).

Developmental education courses are **not counted** in the Cumulative or Term GPA used to determine scholastic

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probation, suspension or scholastic honors.

If you have questions about your placement, your TSI status or how developmental coursework affects your specific academic plan or financial aid, please consult your [Enrollment Coach](#).

General Education Courses

If you are pursuing an Associate of Applied Science (AAS) degree your program must contain a basic core of five general education courses. This core requires a minimum of 15 semester credit hours and must include at least one course from each of the following areas:

- Humanities/Fine Arts
- Communication/Writing
- Social/Behavioral Sciences
- Natural Sciences/Mathematics

You'll find the specific general education core courses listed within your associate degree plan.

If you're pursuing an Associate of Science (AS) degree, your program incorporates the college's approved academic CORE curriculum unless an exemption exists. The Curriculum Department maintains a list of exemptions defined by the **Texas Higher Education Coordinating Board** for offering specialized academic associate degrees.

For more details and a complete list of the college's approved academic CORE curriculum see the listing of [general academic Core courses](#).

What is the Texas Higher Education Coordinating Board? *The Texas Higher Education Coordinating Board is the state agency that oversees public higher education in Texas, including the approval of degree programs, the Texas Core Curriculum, and workforce education guidelines that govern programs at TSTC.*

General education is an integral component of your degree program. Through these courses, you will encounter the basic content and methodology of the principal areas of knowledge: humanities and fine arts, social and behavioral sciences, and math and natural sciences. Courses in each of these specific areas introduce a breadth of knowledge and reinforce your cognitive skills, creating effective learning opportunities for you. Unlike your technical classes, these general education courses do not focus on skills, techniques and procedures specific to your chosen occupation or profession.

Purpose

General education courses are foundational to our purpose at TSTC and represent our commitment to offer breadth as well as depth to your technical education program of study. Through these courses, you encounter the principal areas of human knowledge and develop the broad skills employers and transfer institutions expect from a college graduate.

We offer a comprehensive general education program for the following reasons:

1. **Employer Expectations.** Employers seek technically trained graduates who, in addition to their occupational skills, can communicate effectively, work collaboratively, think critically, make sound decisions, adapt to change, and continue learning throughout their careers.
2. **Foundational Knowledge.** General education courses provide a thorough academic foundation that complements the specific skills, techniques, procedures, and vocational competencies developed in your technical coursework.
3. **THECB Core Objectives.** General education courses at TSTC are designed to develop the six **Core Objectives** established by the Texas Higher Education Coordinating Board (THECB) and adopted as TSTC's general education student learning outcomes:
 - o **Critical Thinking Skills** — creative thinking, innovation, inquiry and analysis, evaluation, and synthesis of information
 - o **Communication Skills** — effective development, interpretation, and expression of ideas through written, oral, and visual communication
 - o **Empirical and Quantitative Skills** — manipulation and analysis of numerical data or observable facts to reach informed conclusions
 - o **Teamwork** — the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
 - o **Personal Responsibility** — the ability to connect choices, actions and consequences to ethical decision-making
 - o **Social Responsibility** — intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national and global communities
4. **Accreditation Requirements.** General education courses are required to meet the standards of TSTC's institutional accreditor, the **Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)**, as well as the standards of the **Texas Higher Education Coordinating Board (THECB)**. Some TSTC programs are also subject to additional requirements from specialized programmatic accreditors specific to their

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occupational field. Your program advisor can identify any specialized accreditation requirements that apply to your program.

5. **Transferability.** General education courses fulfill the requirements of **articulation agreements** TSTC has established with other colleges and universities, supporting your ability to transfer credits when those agreements apply to your specific coursework.

What is SACSCOC? *The Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) is the institutional accreditor that reviews and accredits TSTC. Accreditation means TSTC has been evaluated by an independent peer-review body and found to meet established educational quality standards.*

What are Articulation Agreements? *An articulation agreement is a formal agreement between TSTC and a partner institution that defines how specific TSTC courses or programs will be accepted for transfer credit at the partner institution. Articulation agreements support — but do not automatically guarantee — credit transfer. Final acceptance of transfer credit depends on the receiving institution's degree requirements, the grade you earned in the course, and the agreement's current terms. Consult your advisor or the receiving institution's registrar before relying on transferability.*

Our General Education Department strives to deliver courses that impart the common knowledge, intellectual concepts and attitudes every person should have for career and life roles. In addition to providing some of the basic competencies you need as a technical student, the General Education Department seeks to provide you support in:

- **Degree programs** with instruction in knowledge and skills designed to impart common knowledge, intellectual concepts and appropriate attitudes for work and life. These courses assist your participation in social, technological and cultural environments and contain college-level content in areas of communication, social and behavioral sciences, humanities, mathematics, and natural science. Their common course numbers are recognized by the Texas Higher Education Coordinating Board in the [Lower Division Academic Course Guide Manual](#) and meet all requirements for transfer to other accredited colleges and universities.
- **Certificate programs** with instruction in knowledge, skills and attitudes appropriate for and in support of your technical program of study. These college-level courses are in the areas of communications, human relations, mathematics, natural sciences, social and behavioral sciences, business, and humanities. These related courses of study in certificate programs have numbers from the [Workforce Education Course Manual](#) as recognized by the Texas Higher Education Coordinating Board. They typically are transferable for courses in occupational programs of study at other colleges or as part of an articulation agreement with another college. Additional courses come from the [Lower Division Academic Course Guide Manual](#) and meet all requirements for transfer to other accredited colleges and universities.
- **Developmental education** provides courses that strengthen your academic skills, teach positive study habits, and seek to make you better prepared to complete your studies in your major program of study. They also promote skills that you must acquire to successfully meet the requirements of TSTC's Texas Success Initiative (TSI) plan.

What is the Lower Division Academic Course Guide Manual? *This is a state manual of approved academic courses put forth by the Texas Higher Education Coordinating Board.*

What is the Workforce Education Course Manual? *The Workforce Education Course Manual (WECM) is a state manual of approved technical and career courses recognized by the Texas Higher Education Coordinating Board.*

What is the Texas Success Initiative? *The Texas Success Initiative is a state-mandated program designed to ensure that you are ready for college-level coursework. It assesses your skills in reading, writing and mathematics to determine if you need additional support before taking college-level courses.*

Humanities/Fine Arts Electives

Credits for humanities and fine arts electives are based upon the definition of the Shared Vision Task Force of the National Council for Occupational Education and the Community College Humanities Association:

"Humanities in associate degree occupational programs are studies which expand the student's awareness of the human condition and appreciation of human needs, values and achievements. The humanities assist in developing insights, capacities and well-reasoned convictions essential for a fulfilled public and private life, as well as a success in a career. They include studies of literature and all languages, history, philosophy and religion, and the history and appreciation of the fine arts. They do not include the development of basic communication skills in any human language."

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In plain terms, humanities courses are designed to broaden your perspective beyond your technical field — helping you think critically, understand different cultures, and develop the kind of well-rounded judgment that serves you both on the job and in everyday life. These courses cover areas like literature, history, philosophy, religion, and the fine arts. They do not include basic writing or communication skills courses, which are covered separately under the Communication/Writing requirement for your AAS degree.

General Education Courses Listing

Below is a list of general education courses, organized by category, that satisfy the 15 semester credit hour basic core requirement for any TSTC Associate of Applied Science (AAS) degree. These courses are taught by the TSTC General Education Department and/or affiliated programs:

Humanities/Fine Arts: (choose 3 hrs. = one course)

ARTS 1301 Art Appreciation
ENGL 2321 British Literature
ENGL 2326 American Literature
ENGL 2331 World Literature
ENGL 2341 Forms of Literature
HUMA 1301 Introduction to Humanities
HUMA 2323 World Cultures
MUSI 1306 Music Appreciation
PHIL 1304 Introduction to World Religions
PHIL 2306 Introduction to Ethics

Social/Behavioral Sciences: (choose 3 hrs. = one course)

ECON 2301 Principles of Macroeconomics
ECON 2302 Principles of Microeconomics
GOVT 2305 Federal Government
GOVT 2306 Texas Government
HIST 1301 United States History I
HIST 1302 United States History II
PSYC 2301 General Psychology
PSYC 2314 Lifespan Growth & Development
SOCI 1301 Introductory Sociology

Math/Natural Sciences: (choose 3 hrs. = one course)

BIOL 1306 Biology for Science Majors I
BIOL 1307 Biology for Science Majors II
BIOL 1308 Biology for Non-Science Majors I
BIOL 1309 Biology for Non-Science Majors II
BIOL 2301 Anatomy & Physiology I
BIOL 2302 Anatomy & Physiology II
BIOL 2404 Anatomy & Physiology
CHEM 1305 Introductory Chemistry I
CHEM 1311 General Chemistry I
CHEM 1312 General Chemistry II
MATH 1314 College Algebra
MATH 1316 Plane Trigonometry

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MATH 1332 Contemporary Mathematics

MATH 1342 Elementary Statistics

PHYS 1315 Physical Science I

PHYS 1317 Physical Science II

Communication/Writing: (choose 3 hrs. = one course)

ENGL 1301 Composition I

ENGL 2311 Technical & Business Writing

General Education Electives: (choose 3 hrs. = one course. Choose a course that is not used to satisfy any of the above categories.)

ENGL 1301 Composition I

ENGL 1302 Composition II

ENGL 2311 Technical & Business Writing

HIST 2321 World Civilizations I

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1318 Interpersonal Communication

SPCH 1321 Business & Professional Communication

ARTS 1301 Art Appreciation

ENGL 2321 British Literature

ENGL 2326 American Literature

ENGL 2331 World Literature

ENGL 2341 Forms of Literature

HUMA 1301 Introduction to Humanities

HUMA 2323 World Cultures

MUSI 1306 Music Appreciation

PHIL 1304 Introduction to World Religions

PHIL 2306 Introduction to Ethics

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

GOVT 2305 Federal Government

GOVT 2306 Texas Government

HIST 1301 United States History I

HIST 1302 United States History II

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth & Development

SOCI 1301 Introductory Sociology

BIOL 1306 Biology for Science Majors I

BIOL 1307 Biology for Science Majors II

BIOL 1308 Biology for Non-Science Majors I

BIOL 1309 Biology for Non-Science Majors II

BIOL 2301 Anatomy & Physiology I

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BIOL 2302 Anatomy & Physiology II

CHEM 1305 Introductory Chemistry I

CHEM 1311 General Chemistry I

CHEM 1312 General Chemistry II

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1332 Contemporary Mathematics

MATH 1342 Elementary Statistics

PHYS 1315 Physical Science I

PHYS 1317 Physical Science II

Note: Transfer courses not listed may be evaluated on an individual basis. Not all courses may be offered on all TSTC campus locations. Additional General Academic courses to be determined by program advisor and campus location.

More Information

If you have questions regarding transfer credit, please contact the [Enrollment Center](#). If you have questions regarding special partnerships, contact the Educational Partnerships Office.

Additional courses may be accepted on transfer from other colleges.

If you have questions on the transferability of outside courses to meet your Humanities/Fine Arts elective, Natural Sciences/Mathematics elective, Behavioral/Social Science elective, Communication/Writing elective, or General Education elective requirements, please address them to the [Director of Alignment for Academic Core/Designated AS Programs](#)

Academic Core Courses

The following general education courses are offered by TSTC General Education departments and/or programs. These courses satisfy the 42 semester hour **Academic Core Curriculum Certificate (CCC)** and the general education core component for Associate of Science (AS) degrees.

What is the Academic Core Curriculum Certificate (CCC)? *The CCC is a 42-semester hour package of transferable general education courses. Completing it means any public college or university in Texas is guaranteed to accept your general education core — so your credits won't be lost if you decide to transfer.*

Our [Harlingen campus](#) offers the Texas Core Curriculum, a set of transferable academic courses defined by the Texas Higher Education Coordinating Board that will transfer to any college or university in the state of Texas. You can find more information on course content, lecture hours and lab hours included in the course descriptions section of this catalog.

When selecting courses within each category, your choices should be based on your demonstrated abilities, your desired major and your graduation goals. Your Enrollment Coach is available to help guide those decisions. Keep the following in mind:

- Not all courses are offered every semester. Plan ahead with your Enrollment Coach to make sure the courses you need are available when you need them.
- You must earn a "C" or better in all Academic Core courses to be eligible for the Certificate of Completion.
- You may take additional hours beyond the minimum required in any category.

The categories and minimum hours for the basic core are as follows:

Communication (6 hours)

ENGL 1301 Composition

ENGL 1302 Composition II

Mathematics (3 hours)

MATH 1314 College Algebra

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MATH 1316 Plane Trigonometry

MATH 1332 Contemporary Mathematics

MATH 2312 Pre-Calculus Math (3 SCH version)

Life and Physical Sciences (6 hours)

BIOL 1306 Biology for Science Majors I (Lecture)

BIOL 1307 Biology for Science Majors II (Lecture)

BIOL 1308 Biology for Non-Science Majors I (Lecture)

BIOL 1309 Biology for Non-Science Majors II (Lecture)

BIOL 2301 Anatomy & Physiology I (Lecture)

BIOL 2302 Anatomy & Physiology II (Lecture)

CHEM 1311 General Chemistry I (Lecture)

CHEM 1312 General Chemistry II (Lecture)

PHYS 1301 College Physics I (Lecture)

PHYS 1302 College Physics II (Lecture)

PHYS 1315 Physical Science I (Lecture)

PHYS 1317 Physical Science II (Lecture)

Language, Philosophy & Culture (3 hours)

ENGL 2321 British Literature

ENGL 2331 World Literature

ENGL 2326 American Literature

PHIL 1304 Introduction to World Religions

Creative Arts (3 hours)

ARTS 1301 Art Appreciation

MUSI 1306 Music Appreciation

American History (6 hours)

HIST 1301 U.S. History I (to 1877)

HIST 1302 U.S. History II (since 1877)

Government/Political Science (6 hours)

GOVT 2305 Federal Government

GOVT 2306 Texas Government

Social/Behavioral Science (3 hours)

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

PSYC 2301 General Psychology

PSYC 2314 Life Span Growth & Development

SOCI 1301 Introductory Sociology

Component Area Option A (minimum of 3 hours)

BIOL 1106 Biology for Science Majors I (lab)

BIOL 1107 Biology for Science Majors II (lab)

BIOL 1108 Biology for Non-Science Majors I (lab)

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BIOL 1109 Biology for Non-Science Majors II (lab)

BIOL 2101 Anatomy/Physiology I (lab)

BIOL 2102 Anatomy/Physiology II (lab)

CHEM 1111 General Chemistry I (lab)

CHEM 1112 General Chemistry II (lab)

ENGL 2321 British Literature

ENGL 2326 American Literature

ENGL 2331 World Literature

PHYS 1101 College Physics I (lab)

PHYS 1102 College Physics II (lab)

PHYS 1115 Physical Science I (lab)

PHYS 1117 Physical Science II (lab)

PSYC 2314 Life Span Growth & Development

Component Area Option B (3 hours)

SPCH 1311 Introduction to Speech Communication

SPCH 1315 Public Speaking

SPCH 1318 Interpersonal Communication

SPCH 1321 Business & Professional Communication

Other Academic Transfer Courses

The Texas Higher Education Coordinating Board approves the following courses for academic credit. However, these courses are not part of the required basic general education core (15 hours) for AAS degrees nor part of the General Education Academic Core and will not satisfy the core requirements for graduation. Certain programs require these courses as part of their curricula, and you may also take the course as an elective beyond the requirements of the basic general education core for AAS degrees and the General Education Academic Core. The Texas Higher Education Coordinating Board does not permit that a Core course be substituted.

ACCT 2301 Principles of Accounting I - Financial

ACCT 2302 Principles of Accounting II - Managerial (ACCT 2301*)

ANTH 2346 General Anthropology

CHEM 1105 Introductory Chemistry Laboratory I (Lab)

COSC 1336 Programming Fundamentals I

COSC 1337 Programming Fundamentals II

COSC 2325 Computer Organization

COSC 2336 Programming Fundamentals III

ENGR 1201 Introduction to Engineering

ENGR 1304 Engineering Graphics

ENGR 2301 Engineering Mechanics I - Statics

ENGR 2304 Programming for Engineers

ENGR 2305 Circuit Analysis I

ENGR 2105 Circuit Analysis I Lab

ENGR 2402 Engineering Mechanics II - Dynamics

ENVR 1401 Environmental Science I

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MATH 2305 Discrete Mathematics (MATH 2413*)

TECA 1354 Child Growth and Development

(*Course Prerequisites)

Prerequisites and Corequisites

Before you register for certain courses, you must complete any **prerequisites** or enroll in any required **corequisites** during the same term. These requirements are listed in the course descriptions, and it's your responsibility to take courses in the right sequence and at the right level. If you don't meet these requirements, you may be withdrawn from the course.

What is a Prerequisite Course? A prerequisite course is a class you are required to pass before you can take a more advanced class.

What is a Corequisite Course? A corequisite course is a class you are required to take at the exact same time as another class.

If you need to request a Prerequisite Override you will need to [complete the request in Workday](#) for the appropriate course and section number.

Credit Award for Assessments and Training

If you're planning to enroll at TSTC or are already a student here, you may be eligible to earn **credit awards**.

What are Credit Awards? Credit awards are college credits granted based on prior exams, training or experience rather than completing a course at TSTC.

We award credit for several types of assessments and training, including:

- College Board Advanced Placement (AP) exams
- College-Level Examination Program Subject Exams (CLEP-S)
- Training received while serving in the United States Armed Services
- Credit earned through the International Baccalaureate Diploma Program
- Credit earned through high school dual enrollment courses

You may also be eligible for credit based on other types of training and experience, subject to review and approval by the appropriate college official.

General Rules and Regulations

There are a few key rules that apply to all credit awards:

- The total number of **semester credit hours (SCH)** awarded through credit awards can vary depending on your program. However, the total credit awarded, including any transfer credits, **cannot exceed 75%** of the total credits required for your declared program of study.
- At least **25% of the total credits** in your certificate or AAS degree plan must be earned through regular SCH instruction at a TSTC campus or at a partner institution of higher education.

What is a Semester Credit Hour (SCH)? A semester credit hour is the unit used to measure how much credit a course is worth.

Credit awarded through external exams or training may not automatically satisfy the specific requirements of your program. Check with your Program Team Lead to confirm whether your credit awards will count toward your degree or certificate requirements.

Any course in which you receive a credit award will be assigned a grade of CR (credit). This grade is not included in your grade point average (GPA) and the credit does not count toward your course load for that term.

You are responsible for obtaining your external exam scores and any other required documentation and submitting them

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to the [Enrollment Center](#) at a TSTC campus. Scores for CLEP and AP exams, along with other credit award documentation, should be submitted before enrollment so they can be used for course advisement and placement.

To get started, you'll need to complete the appropriate [Credit Award Request form](#) along with the required documentation. Any associated fees must be paid before credit can be posted to your transcript.

If your request for a credit award is denied, you have the right to appeal that decision. You may submit your appeal through the published student appeal process outlined in the Student Grievances and Complaints section of this handbook.

Cooperative Education

Most certificate and degree programs give you the chance to participate in cooperative education for at least one semester. Cooperative education is a structured training experience offered through the collaborative effort between you, the industry and TSTC. It allows you to gain work experience and earn up to 12 credit hours working at off-campus jobs related to your field of study.

Cooperative education is competitive, meaning not all students who apply will be selected. Those who are selected may also have the opportunity to earn income to help support their education. If you're interested, talk with your Program Team Lead to learn more about the opportunities available to you.

Any course in which you receive a credit award will be assigned a grade of CR (credit). This grade is not included in your grade point average (GPA) and the credit does not count toward your course load for that term.

For more information on Cooperative Education please view our Statewide Operating Procedure [Collaborative Educational Partnerships ES 2.18](#).

Advanced Placement

Advanced Placement (AP) exams are offered by the College Board to students who complete AP courses in high school. These exams cover a wide range of subject areas, including:

- Business
- Science and Mathematics
- History and Social Sciences
- Foreign Languages
- Composition and Literature

For more details about how AP exam credit is awarded, see [ES 2.10 Credit Award for Assessment and Training](#)

Credit for Military Training

If you received training while serving in the United States Armed Services, you may be eligible to earn college credit for that experience, as long as you can provide the appropriate documentation and your training is equivalent to a course offered at TSTC.

Credit for military training is based on recommendations from the **American Council on Education (ACE)** in its [Guide to the Evaluation of Educational Experiences in the Armed Services](#) and must be approved by the appropriate TSTC **Director of Alignment** for the relevant subject area.

What is the American Council on Education (ACE)? A national organization that evaluates military training and recommends how much college credit it should be worth.

What is a Director of Alignment? A Director of Alignment works with industry partners to make sure your program and training line up with real-world job requirements.

The **Military Registries** provide quality assurance and policy guidance to the U.S. Army, Navy and Marine Corps in support of two official transcript programs:

- AARTS — Army/ACE Registry Transcript Service
- SMART — Sailor/Marine/ACE Registry Transcript

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More than 2,300 colleges and universities recognize these ACE-endorsed transcripts as official documentation of military experience and accurate records of applicable ACE credit recommendations.

What are the Military Registries? *These are official systems that track and document the training and education records of U.S. military service members, used to support credit transfer to colleges and universities.*

To request credit for your military training, you'll need to obtain a transcript from the Defense Activity for Non-Traditional Education Support (DANTES). DANTES maintains educational records for service members who have completed any of the following:

- DANTES Subject Standardized Tests (DSSTs)
- CLEP examinations
- USAFI (United States Armed Forces Institute) courses
- High school equivalency exams

If your courses or tests were completed before July 1, 1974, under the **USAFI program** (United States Armed Forces Institute, disestablished 1974), those records are also available through the DANTES Program. You can contact them at:

DANTES Program

The Chauncey Group International

P.O. Box 6605

Princeton, NJ 08541-6605

What was USAFI (United States Armed Forces Institute)? *This was a program that provided educational courses and testing opportunities to active-duty military personnel. It was disestablished in 1974, but records from that program are still accessible through DANTES.*

International Baccalaureate Diploma Program (IBD)

If you've earned an International Baccalaureate (IB) Diploma, you may be eligible to receive TSTC course credit for your IB exams. Here's how it works:

- If you have an IB Diploma, you can receive credit for scores of 4 or higher on either **Standard Level (SL)** or **Higher Level (HL)** exams.
- If you do not have an IB Diploma, you can still receive credit for scores of 5 or higher on Higher Level (HL) exams only.

The table below shows which exams qualify, the minimum scores required, how many credits you can earn, and which TSTC courses those credits apply to.

***n/a:** This exam level is not eligible for credit without an IB Diploma.

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IBD Exam Name	Minimum Score with IB Diploma	Minimum Score without IB Diploma	Credits	TSTC Course(s)
Biology (HL)	4	5	8	BIOL 1406, 1407
Biology (SL)	4	n/a	8	BIOL 1406, 1407
Chemistry (HL)	4	5	8	CHEM 1411, 1412
Chemistry (SL)	4	n/a	8	CHEM 1411, 1412
Economics (HL)	4	5	6	ECON 2301, 2302
Economics (SL)	4	n/a	6	ECON 2301, 2302
English Language A1 (HL)	4	5	6	ENGL 2322, 2323
English Language A1 (SL)	4	n/a	6	ENGL 2322, 2323
Mathematics (HL)	4	n/a	6	MATH 1314, 1316
Math Methods (SL)	4	n/a	3	MATH 1314
Math Studies (SL)	4	n/a	3	MATH 1324 or 1325
Philosophy (HL)	4	5	3	PHIL 1301
Philosophy (SL)	4	n/a	3	PHIL 1301
Physics (HL)	4	5	4	PHYS 1401
Physics (SL)	4	n/a	4	PHYS 1401
Psychology (HL)	4	5	3	PSYC 2301
Psychology (SL)	4	n/a	3	PSYC 2301

What is a Standard Level (SL) exam? A Standard Level (SL) exam is a foundational IB exam in a subject area, typically requiring less depth of study than a Higher Level exam.

What is a Higher Level (HL) exam? A Higher Level (HL) exam is a more in-depth IB exam in a subject area, requiring greater breadth and depth of study than a Standard Level exam.

Credit Award for Continuing Education and Experiential Learning

There are several ways you can earn TSTC college credit for learning you've already done — whether through continuing education courses, work experience, or a skills-based exam.

Continuing Education (CE) Credit

If you've completed **continuing education (CE) courses** offered at a TSTC campus, you may be able to apply those hours toward semester credit hour technical course credit. To qualify, the CE coursework must be shown to be substantially the same as the equivalent credit course.

If your CE training led to an industry-recognized credential, licensure or certification, you may use that credential to request college credit as well.

To get started, sign and submit a [Continuing Education Hours Course Equivalency Evaluation](#) form to the Office of the Registrar. The CE courses will be evaluated by the Director of Alignment for the technical program that manages the course, and approved for credit only if they are found to be substantially the same as the equivalent credit course. Final approval authority rests with the Associate Vice Chancellor for Instructional Alignment and Innovation.

What are Continuing Education (CE) Courses? CE courses are non-credit courses designed to build job skills or professional knowledge.

You can obtain more specific information on credit awards for continuing education units and experiential learning from the Program Team Lead for the program you are looking to enroll in. Testing center and/or evaluation fees may apply.

Experiential Learning Credit

Experiential learning credit recognizes college-level knowledge and skills you've gained outside the classroom; through earlier schooling, work experience, on-the-job training, or life experiences. With approval from the appropriate director of alignment and/or a designated subject matter expert, you can develop a petition for credit in one or more TSTC courses.

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Petitions are evaluated using recommendations from the [ACE Guide to the Evaluation of Educational Experiences](#) and reviewed by the appropriate director of alignment and/or subject matter expert, then submitted to the associate vice chancellor for Instructional Alignment & Innovation for final approval.

What is Experiential Learning Credit? *Experiential learning credit means you can earn college credit for equivalent educational experiences acquired through earlier schooling situations, work/on-the-job training or life experiences.*

Challenge Exams

If you already have strong skills and knowledge in a technical subject, you may be able to earn credit for technical courses by passing a **challenge exam**. These exams are designed and written by qualified faculty and authorized by the College's Directors of Alignment. Challenge exams may be administered in the technical department or a testing center.

You are not eligible to take a challenge exam for courses that:

- You have previously received a grade in at TSTC;
- You are currently enrolled in; unless you have received proper authorization.

Additionally, if you have previously audited a course, you cannot subsequently challenge that course for credit. Because challenge exam fees are non-refundable, we encourage you to verify your eligibility with the Office of the Registrar before submitting payment.

A few things to keep in mind about challenge exam fees:

- You must pay the Challenge Exam testing fee before taking the test.
- The fee is set by the Board of Regents (BOR), the governing body that oversees TSTC's policies and operations.
- The fee is non-refundable, regardless of how you perform on the exam.

What is a Challenge Exam? *A challenge exam is a comprehensive test designed to measure your proficiency in a specific course.*

Audited Courses

You can audit a course with permission from the course instructor, provided classroom and laboratory space is available. Auditing allows you to attend and participate in a class for learning purposes without earning a grade or college credit.

How to Audit a Course

If you are enrolling to audit a course you must meet all applicable admissions requirements as well as the same class requirements and prerequisites as students taking the course for credit.

Additionally, to audit a course you must:

1. Obtain written permission from the instructor of the course you wish to audit; and
2. Complete and file a "[Course Audit Request](#)" Form with the Office of the Registrar.

We encourage you to start this process early so your audit is on record before the term begins. For more information, contact the [Enrollment Center](#).

Restrictions and Disclosures

- **Credit Load:** Audited courses do not count toward your credit hour load for the term.
- **Grading and Transcripts:** A grade of "AUD" will appear on both your grade report and your official TSTC transcript in place of a letter grade. This notation carries no grade points and is not calculated into your Grade Point Average (GPA).
- **Academic Standing:** A course being audited will not be used in determining your "good standing" or "satisfactory progress." It will not count toward Satisfactory Academic Progress (SAP) for financial aid purposes, nor will it improve your status if you are on Scholastic Probation or Scholastic Suspension.
- **Credit Limitations:** If you take a course for credit after auditing it, please keep in mind:
 - You cannot receive credit by examination for a course you have audited
 - Audited courses cannot be used as course substitutions in your degree or certificate plan
- **Fees:** If you choose to audit a course, you will be charged state and designated tuition plus an audit fee. These fees must be paid in full before your audit is processed. For the specific fee amount, please see the Tuition and Fees section of this Catalog.
- **Cancellation:** Prior to the census date of the course, permission to audit may be canceled if the student space is needed to admit a student enrolling for credit.

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You may refer to our Statewide Operating Procedures [ES 3.11 Auditing Courses](#) for more information.

Schedule Changes

The [TSTC academic calendar](#) outlines the specific dates during which you can make schedule changes. Here's how the process works depending on timing:

Before classes begin, you can add or drop courses or change sections by contacting your enrollment coach.

In order to change your schedule after classes begin, you'll need to:

1. Obtain a course schedule change form from the Enrollment Center, your instructor, or your lead instructor.
2. Complete the form and submit it to the Enrollment Center by the deadline listed in the TSTC academic calendar.

Schedule changes are only official once this process has been completed and recorded by the Records Office.

Drops and Withdrawals

If you need to drop a course or withdraw from TSTC entirely, here's how the process works:

1. Complete a course schedule change form.
2. Obtain the appropriate approval signatures.
3. Submit the form to the Enrollment Center.

Alternatively you can submit a [request to drop your course within Workday](#).

The effective date of your drop or withdrawal is the date recorded by the Office of the Registrar (Records Office), which determines your refund eligibility and final approval of dropped classes. All deadlines for drops and withdrawals are published in the [TSTC academic calendar](#).

For information about how drops and withdrawals affect your tuition, see "Refunds for Changes in Enrollment" in the Refunds section.

How Drops Appear on Your Transcript

- If you drop a course before the **official census date** the course will not appear on your transcript at all.
- If you drop a course or withdraw from TSTC after the official census date, you will receive a grade of "W" (Withdrawal) on your transcript, as long as your form is submitted by the published deadline. A "W" does not affect your GPA, but it does impact the completion rate component of your Satisfactory Academic Progress (SAP) which can affect your financial aid eligibility.

If you withdraw from TSTC, you may be asked to meet with a college representative.

What is the Official Census Date? *The official census date is the specific date each term when TSTC finalizes enrollment numbers for state reporting and financial aid.*

What is the difference between a drop and a withdrawal? *A drop is removing one or more courses while remaining enrolled in at least one course for the semester while withdrawing is leaving all courses for the term.*

Six-Course Drop Limit

Under [Section 51.907 of the Texas Education Code](#) an institution of higher education in Texas may not allow you to drop more than six courses total, including any courses you dropped at another **Texas public institution**. Drops at out-of-state and private institutions do not count toward the six-drop limit.

This rule was enacted in spring 2007 and applies to you if you enrolled as a first-time freshman at a public Texas institution in fall 2007 or later.

A dropped course counts toward your six-course limit if all three of the following are true:

- You were able to drop the course without receiving a grade or academic penalty.
- Your transcript shows or will show that you were enrolled in the course.
- You are not dropping the course as part of a full withdrawal from the institution.

Once you reach the six-course drop limit, the Office of the Registrar will block further course drops. Your TSTC official

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transcript will only reflect the drops processed at TSTC that count toward the six-drop limit.

Drops that do not Count Toward the Six-Drop Limit

The following drops are exempt from the six-course limit:

- Drops processed on or before the official census date
- Administrative drops initiated by the College
- Drops from developmental education, continuing education, dual credit, or block-scheduled courses
- Drops from private or out-of-state institutions
- Drops approved for Good Cause (see below)

Good Cause Exemptions

In some cases, a drop may not count toward the limit if you can demonstrate **good cause**. To request a Good Cause exemption, submit supporting documentation to the Office of the Registrar. The following drop reason codes qualify as Good Cause:

- Needed care in the student's family or close relationship
- Death in the student's family or close relationship
- Sickness or illness of the student or family member
- Change in work schedule beyond the student's control
- Active-duty military service of the student or family member
- Other good causes as determined by an appropriate institutional official (supporting documentation may be required)

It is your responsibility to establish and document good cause.

What is "Good Cause"? Good cause is a valid reason for your drop, such as a serious illness or other extenuating circumstance.

Military Service Withdrawal

If you've completed at least 75% of the term and are called to active military service, you may request an excused absence instead of a full withdrawal. Here's what that means for you:

- You will receive a grade of "IM" in all of your courses. The "IM" is non-punitive and is not calculated in Grade Point Averages.
- You will have two years from the end of the term to complete your coursework.
- If you do not complete the required coursework within that two-year window, your "IM" grades will be changed to "W" grades.

Service members who are called to qualifying active duty for more than 30 consecutive days are eligible to be readmitted to TSTC with the same academic status, provided their total service-related absence does not exceed five years and they notify the registrar of their intent to reenroll. Students returning from service do not need to reapply, and if their original program is no longer available, they will be advised on the closest available alternative.

Before You Leave

If you withdraw from TSTC, make sure you:

- Return all library books and laboratory equipment.
- Settle all financial obligations before your departure.

Administrative Withdrawals

In some cases, TSTC's Student Learning or Administrative Offices may initiate an administrative withdrawal. If you are administratively withdrawn, TSTC's Refund and Grading Policy will apply. Administrative drops and withdrawals shall not count toward the six-course drop limit.

What is an Administrative Withdrawal? This is a withdrawal processed by the college rather than by you.

Student Participation

You are responsible for attending your classes and actively participating. Your instructors may set specific participation requirements for both inside and outside the classroom, and may factor those requirements into your final grade.

If you experience an unforeseen event beyond your control that prevents you from meeting participation requirements, a faculty member or college administrator may submit a request to withdraw you from one or more courses. Events that may

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qualify include:

- Serious illness
- Death in the immediate family
- Changes in your employment status
- Military deployment

Students will be notified of the withdrawal by the office of the Registrar, and the notice shall include an outline of the appeal process. Administrative withdrawals are subject to TSTC's Refund and Grading Policy.

Student Absence and Religious Holidays

Under [Texas Education Code 51.911](#), if you miss class to observe a religious holiday, you have the right to make up any exam or assignment that was scheduled for that day. Your instructor will set a reasonable deadline for completing the makeup work.

To use this accommodation, you must:

- Complete an [absence request form](#).
- Submit it in writing to your instructor within the first 10 days of the term.

For more information, contact the [Enrollment Center](#).



Transfer of Credit

When you're ready to transfer your course credits between TSTC and other Texas colleges and universities, the process is guided by two state-approved resources: the [Texas Higher Education Coordinating Board \(THECB\) Academic Course Guide Manual](#) and the [Workforce Education Course Manual](#).

In general, you may submit an official transcript to a college or university for them to consider your transfer credits. Please keep in mind that the **receiving institution** has the final say on which credits they will accept.

What is the Academic Course Guide Manual (ACGM)? The Academic Course Guide Manual is the official list of general academic courses that are approved for transfer among all Texas public institutions of higher education.

What is the Workforce Education Course Manual (WECM)? The Workforce Education Course Manual is a state-mandated inventory of technical and workforce courses. It ensures that the skills you learn at TSTC meet the same high standards as other technical programs across the state.

What is a Receiving Institution? The receiving institution is any college or university that is evaluating your transfer credits for acceptance. This could be TSTC if you are bringing credits from another school, or it could be another institution if you are moving credits from TSTC to them. They have the final authority to decide which of your previous credits will count toward your new degree or certificate.

All transfer credits accepted by TSTC and applied to your degree or certificate have been credited according to our approved procedures for the evaluation and award of credit. If your transfer courses are not listed in the Texas Common Course Numbering System (TCCNS), are from an out-of-state institution, or are from a foreign institution, we will forward them to the appropriate department or subject-matter experts for further review and approval. [You are responsible for providing the necessary documentation about your transfer course\(s\).](#)

If you have questions or need more information, please contact the appropriate Director of Alignment.

Resolution of Transfer Disputes for Lower Division Courses

We follow the procedures specified in the [Texas Higher Education Coordinating Board Rules \(Chapter 4, Subchapter B, Section 4.27\)](#) to resolve any credit transfer disputes involving **lower-division courses**.

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What are Lower-Division Courses? *Lower-division courses are introductory college-level classes, typically taken during your first two years of college, that provide foundational knowledge in a subject area.*

If Your Credits Aren't Accepted

1. If a **receiving institution** (whether that's TSTC or another school) does not accept course credit you earned at a **sending institution** (your previous school), the receiving institution must give you and the sending institution written notice that the transfer is denied. This notice will include the reasons for the denial. Attached to this notice will be the procedures for resolving transfer disputes and clear instructions on how to appeal the decision to the **commissioner**.

What is a Commissioner? *The Commissioner of Higher Education leads the Texas Higher Education Coordinating Board (THECB), the state agency that oversees public higher education in Texas. The Commissioner resolves transfer credit disputes between institutions.*

1. If you receive this notice, you may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution.
2. Both institutions and you will work together to try to resolve the transfer of the course credit according to the board's rules and guidelines.
3. If the dispute is not resolved to your satisfaction within 45 days after you received the written notice of denial, the sending institution may notify the commissioner in writing to request a resolution. The institution denying the credit must also notify the commissioner in writing of its denial and the reasons why.

The Commissioner's Decision

The commissioner (or their designee) will make the final determination regarding the dispute and will provide written notice of that decision to you and both institutions.

We are required to publish these procedures from Section 4.27 of the Texas Higher Education Coordinating Board rules in our course catalogs. The board also collects data on the types of transfer disputes reported and how each case is resolved by the commissioner.

Quality Concerns About Transfer Courses

If a receiving institution has reason to believe a course you are preparing for transfer is not of an acceptable level of quality, they should first contact the sending institution to try to resolve the problem. If a satisfactory resolution cannot be reached, the receiving institution may notify the commissioner, who may investigate the course. If the quality is found to be unacceptable, the board may stop funding for that course.

Note: In the event of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation, or a designee who oversees the department in which the course is taught, holds the final authority for awarding transfer credit.

For additional information, see our Statewide Operating Standard [ES 3.12 Transfer and Substitution of Credit](#)

05. Flexible Program Options

Performance-Based Education (PBE)

We offer some programs of study in a Performance-Based Education (PBE) format, which is our version of **Competency-Based Education (CBE)**. In PBE technical programs, your success depends on mastering course skills and competencies, graded on an A, B, or F scale. In PBE technical programs you must earn a grade of B or better to pass and demonstrate mastery. In Academic, General Education and Developmental Education courses, your success is measured on an A, B, C, or F scale to keep your grades eligible for transfer. You must earn a grade of C or better to pass in these courses. Grades below these thresholds, B for technical and C for academics, are considered non-mastery and will not satisfy course completion.

What is Competency-Based Education (CBE)? *CBE is an approach to learning that measures your progress by what you can do, not just how long you've been in class.*

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We offer some PBE programs entirely online, while others follow a hybrid format, meaning lecture content is delivered online and hands-on lab sessions are held in person on a set schedule. The nature of PBE instruction may allow you, depending on your program, to move through coursework at your own pace and finish ahead of schedule. Please keep in mind that failure to meet the performance requirements of the PBE course within the allotted time frame will result in the grade of an F. It is your responsibility to attend course lectures and laboratory sessions as required by your instructors.

Online Learning

Online courses and programs let you complete coursework through the internet on your personal computer. Each TSTC online program may have its own specific requirements, so check with your program advisor to confirm what applies to you. Whether your online program is offered in a PBE or traditional format will determine if you can work through the course material at your own pace with the opportunity to accelerate. In a PBE format, you may have the opportunity to accelerate. In a traditional format, you'll follow a set course schedule.

Regardless of format, you will complete your requirements and communicate with your instructors using our **Learning Management System (LMS)**. Some online courses may also require specific software or **proctored exams**. Check your course syllabus for those details. If you ever need help, [virtual tutoring](#) through our Office of Student Success is available for some online courses.

What is a Learning Management System (LMS)? An LMS is simply the online platform or software we use to deliver your course materials, assignments and grades. We use the Canvas LMS at TSTC.

What are Proctored Exams? Proctored exams are exams monitored to verify your identity and ensure academic integrity. Test proctoring is available at some TSTC locations. You may need to use alternative proctoring sites or software if you live in an area where TSTC proctored testing centers are not available.

You are required to take the Student Online Learning Orientation (SOLO) course if you are taking online classes during your first semester at TSTC. This course will teach you how to use the LMS and give you great strategies for succeeding in an online learning environment. You can contact our Instructional Design and Support team for more information on the SOLO course.

In most cases, your tuition for online learning courses is exactly the same as it is for on-campus courses. You can find more details in the Tuition and Fees section of this catalog. If you are planning to take only online courses, please let the [TSTC Enrollment Center](#) know so we can arrange the right information and advising for you.

Day, Evening and Weekend Courses

We teach the majority of our college credit courses on weekdays during the day, but we also offer selected courses at available campuses during the evenings and/or on weekends. Our **Accelerated Training Solutions courses** are scheduled throughout all of these time periods. Contact the [Accelerated Training Solutions Office](#) for more details!

What are Accelerated Training Solution Courses? Accelerated Training Solution courses are specialized, short-term classes designed to help you build specific career skills or advance in your current job.

06. Dual Credit

Our TSTC **dual credit** program gives you the opportunity to earn college credit while you are still in high school!

What is Dual Credit? Dual credit is a program that allows eligible high school students to enroll in college level courses and earn credit that counts toward both a high school diploma and a college degree or certificate at the same time.

To participate, your high school must have a **Memorandum of Understanding (MOU)**. Additionally, you must meet all applicable student eligibility requirements, as well as TSTC's admissions and course prerequisite requirements, before enrolling in any dual credit course. We recommend working closely with your high school counselor to select a dual credit technical pathway, and make sure the pathway you choose is listed on your school's approved Pathway Offering Form.

What is a Memorandum of Understanding (MOU)? An MOU is a formal written agreement between your high school and TSTC that establishes the terms of the dual credit partnership and confirms that your school is an approved program partner.

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Applicable student eligibility requirements can be found listed in [Rule 4.85 of the Texas Administrative Code, Title 19, Part 1, Chapter 4, Subchapter D](#) and TSTC's admissions requirements are found in our Statewide Standard [ES 4.07 ADMISSION OF STUDENTS](#). Course prerequisites can be found listed within this catalog under Program Areas and Courses.

As an active dual credit student, you are expected to follow all rules and regulations outlined in the TSTC Catalog and Student Handbook, just like any other TSTC student.

Ready to get started? Reach out to the [Dual Credit](#) Office! We're happy to answer your questions and help you take that first step.

07. Accelerated Training Solutions

At TSTC, we offer a wide range of Accelerated Training courses and programs designed to help you build skills fast, whether you're entering a new career, updating your current skills, or pursuing professional development. When you successfully complete the objectives for these courses, we award your credit as **Continuing Education Units (CEUs)**, or Clock Hours, which simply measure the actual time you spend learning. We offer these courses to the general public and in customized formats built specifically for businesses and industries.

Typical offerings include:

- Training and retraining programs that respond to the requests or needs of businesses, institutions and agencies.
- Specialized customized training courses, workshops, seminars, and clinics — delivered at our training facilities, on-site at employer locations or online.
- Training for industrial start-up or expansion programs.
- Accelerated training for new careers, skill updates, professional development, personal improvement, and recreation.

What are Continuing Education Units (CEUs)? CEUs are standard measurements where one CEU equals 10 hours of participation in non-credit classes.

Admission and Registration

The majority of our Accelerated Training courses and programs have no admission requirements. However, we do require you to complete an online or in-person registration form with your basic **demographic information**. Once registered, make sure you receive confirmation of your enrollment, including course details and start dates.

Keep in mind that some programs may require demonstrated skills, competencies, certifications, or prior experience. Certain programs may also require a background check, drug screening and a physical examination before you can enroll.

What is Demographic Information? Demographic information are details about who you are, such as your age, address and background.

Tuition and Fees

Accelerated Training course pricing varies depending on the length of the course, any special equipment or lab use, and other factors. If your training is customized for a specific employer, the cost may be billed directly to the sponsoring business or industry, provided a signed and dated training contract is finalized and on file with TSTC by the course census date.

Unless your course or your **enrollment is sponsored** by a business or agency, full payment of all tuition and fees is due three business days before the first class meeting.

Sponsorship is only recognized by TSTC when a formal training contract between TSTC and the sponsoring entity has been signed, dated and finalized on or before the course census date. If your sponsoring employer has not finalized the required contract with TSTC by the census date, your enrollment will not be considered sponsored and you will be responsible for paying all tuition and fees out-of-pocket. To avoid disruption to your enrollment, confirm with your employer and with the Accelerated Training Solutions office that your sponsorship contract has been executed before the start of class.

What is Sponsored Enrollment? Sponsored enrollment means that an employer or outside agency has agreed to pay for your tuition, fees, and/or training costs on your behalf.

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Class Records and Certificates for CEU Programs

When you complete our Accelerated Training courses, you earn one CEU for every 10 hours of participation in a course or program.

Grades in Accelerated Training classes are typically awarded as Satisfactory (S) or Unsatisfactory (U). Depending on the requirements of the course sponsor, other grade types may be used. If you successfully complete a Accelerated Training course, you may request a transcript documenting the number of CEUs you earned.

Class Records and Certificates for Clock Hour programs

If you are completing a course or program through Accelerated Training Solutions, you earn one hour of credit for every hour of participation.

We use the following grading scale for our **clock hour** programs:

Grade Range

A	90-100
B	80-89
C	75-79
D	70-74
F	0-69

What is a Clock Hour? A clock hour is a 60-minute period consisting of at least 50 minutes of actual class instruction or supervised laboratory work.

Earning College Credit for Accelerated Training Courses

CEUs, as well as clock hours earned in TSTC-taught classes, may be eligible for conversion to semester-hour (college) credit applicable toward a certificate of completion or an associate degree. Eligibility is subject to the following conditions:

- Only clock hour courses approved as workforce education courses in the [Workforce Education Course Manual \(WECM\)](#) offered by TSTC are eligible for conversion.
- You must demonstrate that the clock hour coursework is substantially equivalent to the corresponding semester credit hour course in both content and learning outcomes.
- You must submit a [Credit Award for Assessment and Training request form](#) to the instructional administrator of the appropriate WECM technical program.
- Evaluation fees approved by the Board of Regents may apply and must be paid prior to evaluation.
- At least 25% of the total required credit hours for your degree or certificate must be earned through regular semester credit hour instruction at TSTC.
- Final approval of credit conversion rests with the Associate Vice Chancellor for Instructional Alignment & Innovation or designee.

For more details, refer to the *Credit Award for Assessments and Training* section of this catalog as well as our *Statewide Operating Procedures* [ES 2.10 CREDIT AWARD FOR ASSESSMENT AND TRAINING](#)

Satisfactory Pursuit of Program

To successfully complete your program, you must finish each course with a grade of C or better. If you do not maintain acceptable classroom attendance or fail to meet learning objectives and grade requirements, you may be removed from the program.

Your standing in the program is measured as follows:

- **Good Standing** — You have earned a C or better.
- **Probation** — You have earned less than a C.
 - ***What is Probation?*** Probation is a warning status indicating you are not meeting the minimum academic requirements. It is a signal to work closely with your instructors to get back on track.
- **Suspension** — Program-level suspension occurs if you do not meet the C-or-better requirement on your third attempt of the same course. This program suspension is separate from institutional scholastic suspension.
 - ***What is Suspension?*** Suspension means you are not permitted to re-enroll in that specific course or program until the conditions for reinstatement are met.

Refund Policy for Accelerated Training Courses

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If you need to change your enrollment in an Accelerated Training course, refunds are based on when you notify us, measured by class meetings (the actual scheduled meeting days of your course section) — not calendar days:

- **100% Refund** — If you voluntarily end your enrollment before the first class meeting.
- **70% Refund** — If you voluntarily end your enrollment before the third class meeting, for courses scheduled with three or more class meetings. No course credit will be issued.
- **0% Refund** — If you end your enrollment on or after the third class meeting. No course credit will be issued.
- **Courses with One or Two Class Meetings** — For shorter courses scheduled with only one or two class meetings, a refund is available only if requested before the first class meeting. No refund will be issued thereafter.
- **No Refund** — If you are removed from the program due to attendance violations or other administrative action, you will not receive a refund or course credit.

Institution-Initiated Cancellation: We reserve the right to cancel an Accelerated Training course due to low enrollment, instructor unavailability or other unforeseen circumstances. If we cancel a course, we will notify you promptly and issue a full refund of tuition and refundable fees. Note that certain fees specifically designated as non-refundable (such as installment plan fees once classes have begun) may be retained in accordance with TSTC's refund policy.

Pilot Training Programs

If you are enrolled in a pilot training program (non-contract or individual contract pilot training), a different refund schedule applies based on a prorated formula tied to flight hours and course completion. Pilot training students should contact the Accelerated Training Solutions office or refer to your program-specific enrollment documents for the applicable refund schedule.

Accelerated Training Attendance Policy

To maintain satisfactory progress, you must maintain a minimum of 90% attendance per course. Some programs may have different attendance requirements set by an external governing agency — if so, those requirements will be listed in your course syllabus.

How Attendance Is Tracked: Your attendance and participation are documented by your instructor for each scheduled class meeting. For online or hybrid courses, "participation" means measurable, documented engagement in course activities (such as logging in to coursework, submitting assignments or participating in instructor-led discussions) — simply logging in is not sufficient. Attendance records are used to verify your contact hours for state reporting and, where applicable, federal financial aid eligibility.

Your Right to Review: You may request to review your attendance record at any time by contacting your instructor or program representative. If you believe your attendance record contains an error, you may submit a written request to correct it through your program representative.

Important: If you fail to meet attendance and participation expectations, you may be dismissed from the program without a refund or course credit.

Customized Training for Business and Industry

We have dedicated representatives who work with businesses, institutions and agencies to develop specialized training programs for employees. We can provide this training at our college campus or at a location of the employer's choice.

Quality and Institutional Control: All customized and contracted training programs that award TSTC credit or CEUs are maintained under TSTC's sole and direct control. This means:

- All instructors are TSTC-approved and have credentials on file with TSTC.
- All course content and learning objectives are evaluated and approved by TSTC.
- Student evaluations of instruction are conducted and maintained by TSTC.
- Student complaint procedures are stipulated in every training contract.
- Courses that do not meet these standards are not eligible to award a TSTC CEU.

For more information on specialized business and industry training, contact our Accelerated Training Solutions team at acceleratedtraining@tstc.edu.

08. College Readiness

At TSTC, our College Readiness programs are designed to help you build the academic skills, confidence and college know-how you need to step into college-level work successfully. These programs include:

- Upward Bound

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- Upward Bound Math & Science
- Educational Talent Search (ETS)
- A variety of other summer bridge and enrichment programs

Upward Bound, Upward Bound Math & Science, and Educational Talent Search are federally funded TRIO programs sponsored by the U.S. Department of Education. They are designed to support students as they prepare for and transition into higher education.

When you participate in any College Readiness program, you are part of the TSTC community — which means you are expected to follow the rules and regulations set forth in this Catalog/Handbook. Keep in mind that your specific program may also have its own additional policies that you will need to follow.

A Note for Participants Under 18 (and Their Families)

Many of our College Readiness participants are high school students under the age of 18. We take the safety of minors on our campuses seriously. In accordance with Statewide Operating Procedure [GA 1.6.7 Minors on Campus](#) and [Texas Education Code §51.976](#) and [§51.9761](#), TSTC takes the following measures:

- **Staff Training:** Requires program operators and staff who interact with minors to complete sexual abuse and child molestation awareness training and pass an examination approved by the Texas Department of State Health Services. Staff must verify this training was completed within the preceding two years, or must complete it within the first five days of employment or program start.
- **Background Checks:** Conducts criminal background checks on all employees, student workers and volunteers who work directly with minors.
- **Mandatory Reporting:** Follows mandatory reporting requirements under Texas Family Code Chapter 261 for any suspected abuse or neglect of a minor. Reports must be made immediately to the TSTC Title IX Coordinator (via the Maxient reporting system), the TSTC Police Department, and to the relevant ISD personnel when applicable.

If you are a parent or guardian and have questions about how we protect minors in our programs, please contact [TSTC Human Resources](#) or your program coordinator.

"College Readiness" and the Texas Success Initiative (TSI)

Participating in a College Readiness program is a great head start, but it does not automatically satisfy the state's college-readiness requirements for enrollment at TSTC. Under Statewide Operating Procedure [ES 3.07 Developmental Education Program](#) and [Texas Education Code §§ 51.331-51.344](#), you must meet the Texas Success Initiative (TSI) requirements before enrolling in college-level coursework, unless you qualify for an exemption.

What is TSI? The Texas Success Initiative is a state-mandated program that assesses your readiness in reading, writing and math. For more information, please refer to the Texas Success Initiative (TSI) Requirements section of this handbook.

Enroll at TSTC After Your Program

If you decide to enroll at TSTC during or after your College Readiness experience, you will follow the specific admissions pathway that fits your situation, as outlined in [Statewide Standard ES 4.07 Admission of Students](#) and [ES 2.19 Dual Credit Partnership](#):

Dual Credit Students: If you are still in high school and do not yet have a diploma or GED, you may be admitted through the Individual Approval B pathway.

Concurrent or Exceptional Admission: If you are a high school student (including homeschool) seeking concurrent enrollment, or you are 17 or older and currently preparing for a high school equivalency exam, you may be admitted under Individual Approval A.

Standard Admission: Follow the regular TSTC application process after high school graduation.

In all cases, standard TSTC admission requirements still apply — including a completed application, TSI compliance or exemption documentation, immunization records, and any program-specific prerequisites. For more details on these pathways, please refer to the Enrollment Information section of this Catalog/Handbook or speak with a [College Pathways Advisor](#) or an [Admissions Advisor](#).

11. Student Services

01. Student Housing

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At TSTC, we offer student housing as an added service to support your college experience. Housing is assigned on a first-come, first-served basis, so acting early gives you the best chance of securing a space. Our facilities are conveniently located on campus, within walking distance of classroom buildings, laboratories, and recreation facilities.

Visit tstc.edu/campus-housing to explore housing options, photos, and room layouts.

Housing Reservations

Because space is limited, you should complete a campus housing application as early as possible — ideally at least one semester before your expected enrollment date. To complete your application, you will need to submit:

- A completed housing application
- A deposit (payable by cash, credit card, check, or money order to Texas State Technical College)
- **A release of background information form**
- A nonrefundable application fee

Your deposit must be paid before we place you on the housing assignment list. If you decide not to enroll or not to live in campus housing, your deposit will be refunded. If you do move in, we hold your deposit until you properly clear and vacate (officially move out of) housing, and we may deduct any applicable cleaning fees or charges owed.

Please note that all housing rates are subject to change due to economic conditions beyond our control.

What is a Release of Background Information Form? A release of background information form is a document granting us permission to verify your legal and criminal history.

Housing Assignments

If you are a returning student, you have priority for housing assignments. However, you are still responsible for reserving your own space for future semesters according to the policy of your assigned facility.

Once a space is confirmed for you, we will notify you in writing. If housing reaches capacity, we will also notify you in writing that a space is not available.

You are welcome to request a specific space or roommate, and we will give every request full consideration. That said, we reserve the right to make final housing assignments. You must remain in your assigned facility unless you receive written permission from Housing to move. Moving without permission may result in eviction from campus housing.

Housing also reserves the right to relocate you to a different space for reasons such as energy conservation, safety, repairs or remodeling, or other circumstances that serve the best interest of the college.

Missing Housing Resident Notification

If anyone in the TSTC community has reason to believe a student living in on-campus housing is missing, they should immediately contact the TSTC police or security department. TSTC police will file a missing person report and begin an investigation.

If TSTC police determine that you have been missing for 24 hours, they will contact your designated emergency contact or a **confidentially identified individual** of your choosing.

What does "Confidentially Identified Individual" mean? In addition to your standard emergency contact, you have the option to privately designate a separate person — whose identity is kept confidential — to be contacted specifically if you are reported missing for 24 hours.

If you are under 18 years old and are not an emancipated individual — meaning a minor who has been legally granted adult status — federal law requires TSTC to notify your parent or guardian, in addition to any other contact designated by the student, within 24 hours of your being confirmed missing.

Housing Regulations

When you move into campus housing, you will receive a copy of the housing regulations in your lease contract and in the

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[Housing student handbook](#). Move-in policies vary by facility and campus, so review your specific facility's guidelines carefully.

Your lease will end and you must vacate your residence if you are no longer enrolled as a TSTC student.

When you properly vacate your assigned space, we will refund the unused portion of any advance rent after Housing staff complete an inspection and you return all room keys. Please be aware that refunds will not be issued during the last 30 school days of the semester.

Regarding your housing deposit:

- A portion may be withheld to cover the cost of cleaning, repairs, or replacement of lost items where your responsibility is clear.
- Any remaining portion may be withheld to cover unpaid rent or fees.

All rental rates are based on the TSTC approved fee schedule.

Housing Accommodations for Students with Disabilities

If you have a disability that requires housing accommodations, contact [Access & Learning Accommodations](#) as early as possible for guidance on the accommodations process. We encourage you to self-disclose your needs when you begin the housing application — the sooner you reach out, the better we can support you.

02. Access and Learning Accommodations

Students with Disabilities

Welcome to the Access and Learning Accommodations (ALA) office! We are committed to providing equal access to college programs and services for students with disabilities. We work with students through an interactive process to determine reasonable accommodations based on each student's individual needs. Both permanent and temporary disabilities may qualify for accommodations.

What are Reasonable Accommodations? Reasonable accommodations are adjustments, services or modifications that provide equal access to educational programs and activities. Accommodations cannot fundamentally alter an essential requirement of a course or program or impose an undue administrative or financial burden on the college.

Requesting Accommodations

Students are encouraged to contact ALA as early as possible to begin the interactive process. During this process, an ALA staff member will discuss your disability-related barriers and determine what accommodations may be appropriate.

You may be asked to provide documentation that supports your accommodation request. Documentation should help us understand your disability-related limitations and accommodation needs.

Information about your disability is kept confidential and shared on an educational need-to-know basis in the interest of implementing approved accommodations.

Student Rights and Responsibilities

Students with disabilities have the right to equal access under:

- [Section 504 of the Rehabilitation Act of 1973](#)
- [The Americans with Disabilities Act of 1990 \(ADA\)](#)
- [The ADA Amendments Act of 2008 \(ADAAA\)](#)
- [The Fair Housing Act](#)

Students are responsible for:

- Requesting accommodations in a timely manner.
- Participating in the interactive process.
- Providing requested documentation when appropriate.
- Meeting the same academic and technical standards as all students.
- Communicating with ALA if approved accommodations are not being implemented.

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- Updating ALA if accommodation needs or disability-related barriers have changed.

Reasonable accommodations do not excuse students from meeting course requirements, completing assignments or maintaining academic standards.

Additional Support

The ALA office also connects you with community assistance programs and serves as the **liaison** for the [Texas Workforce Commission – Vocational Rehabilitation Services \(TWC-VRS\)](#).

Contact the ALA office

To request accommodations, contact the ALA office via:

- Email: adarequest@tstc.edu
- Phone: 254-867-3600
- Complete the online [Accommodations Request](#) Form

An ALA staff member will contact you to discuss next steps.

Service Animals

A service animal is generally a dog that has been individually trained to do work or perform tasks for a person with a disability. For example, a service animal might guide someone who is blind, alert someone who is deaf, pull a wheelchair, or protect someone having a seizure. **Keep in mind that providing emotional support, well-being, comfort, or companionship does not qualify an animal as a service animal.**

Service animals are permitted in campus buildings and other areas where members of the public are allowed, consistent with federal law. This is in accordance with [Titles II and III of the Americans with Disabilities Act \(ADA\)](#)

Students are not required to register a service animal with ALA or provide certification.

College employees may only ask the following two questions:

1. Is the dog required because of a disability?
2. What work or task has the dog been trained to perform?

Handlers are responsible for maintaining control of their service animals at all times. If a leash, harness, or handle interferes with your service animal's work — or if your disability prevents you from using those devices — you must maintain control through voice, signal or other effective means. A service animal may be excluded if it is out of control and the handler does not take effective action or if the animal is not housebroken.

Service Animals in Training

A service animal in training is typically a dog being trained by an approved trainer who works for a reputable organization and is qualified to train assistance animals and/or their handlers.

Service animals in training are welcome on campus during active training sessions. The trainer may be asked to submit proof of their approved trainer status to the Access and Learning Accommodations (ALA) office, as required under [Texas Human Resources Code Sec. 121.003](#).

Off-Campus Internships

If you are completing an internship off campus, the ALA office can serve as a liaison connecting you with the site's **ADA designee** to work out any requirements for service animals or service animals in training to enter that facility.

Public Etiquette Toward Service Animals

All faculty, staff, students, visitors, and members of the public should avoid the following when a service animal is present:

- Pet, feed, or intentionally distract a service animal.
- Separate a handler from their service animal.
- Interfere with the animal while it is working.

Individuals found in violation of these expectations may be subject to disciplinary action as outlined in the Student Code of

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Conduct or SOS ES 3.23.

Emotional Support Animals (ESA)

An Emotional Support Animal (ESA) may be approved as a reasonable housing accommodation in accordance with the [Fair Housing Act of 1988](#), when there is a disability-related need for the animal. ESAs are permitted only within approved campus housing and designated outdoor areas.

Process to Request an ESA

Our Access and Learning Accommodations office manages your requests to have an emotional support animal in your college housing assignment. Faculty or staff residing in housing should direct their requests to the Housing Department and Human Resources office instead.

To request approval for an ESA, you must complete the following steps:

1. Complete the Request for Accommodations. 2. Submit supporting documentation to the ALA office by one of these methods:

- Upload with your accommodations request
- Email (adarequest@tstc.edu)
- Fax (254-777-6507)

This documentation must come from a licensed healthcare professional with whom you have an established professional relationship and must include:

- A description of your limitations
- An explanation of the connection between your disability and the expected impact of the ESA

Caution: Some websites sell certificates and licensing documents. Based on guidance from the [U.S. Department of Housing and Urban Development](#), which enforces the Fair Housing Act, internet documentation by itself is not enough to prove you have a non-observable disability or a disability-related need for an assistance animal. Because of this, we may ask for more reliable documentation when your disability or need for accommodation is not obvious or otherwise known.

3. Schedule an intake meeting with an ALA Staff Member.

- ESA approval must be reconfirmed each academic year.

After You Submit

Once you submit everything, we will review your ESA request and share our decision with the Housing Office. If approved, the Housing Office will collect additional information from you, including the animal's veterinary records and a Housing Agreement Form. If we deny your request for an ESA, you have the right to appeal the decision to the college ADA coordinator. You can find the appeal process in our Statewide Operating Procedure [ES 3.26 Students with Disabilities](#)

Your request could be denied for any of the following: (a) documentation is unsupported or inadequate; (b) the animal would pose a direct threat to health or safety not mitigated by another accommodation; (c) the animal would cause substantial property damage; (d) the request would fundamentally alter an essential program element; or (e) the accommodation would impose an undue burden.

Important: Your ESA is not permitted in the residence hall until you have received official approval from both the ALA Office and the Student Housing Office. Please submit all your necessary information with plenty of lead time so we can fully review your request.

Rules for Emotional Support Animals

All ESAs are considered for approval on a case-by-case basis and must comply with the local ordinances (city laws and regulations) of the campus location where you live.

Licensing and Vaccinations

Dogs and cats must have current vaccinations as recommended by a licensed veterinarian, including rabies, and must meet all local licensing requirements. Proof of vaccinations must be submitted to the Housing Office. Animals that do not meet these requirements may be subject to removal from campus.

Owner Responsibilities

You are responsible for your animal's behavior at all times. That includes the following:

- Your animal must be under your complete control and must not pose a hazard to people or property. A muzzle

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alone does not count as control.

- On campus grounds, your animal must be secured to a leash, cord, chain, or similar physical restraint no longer than 6 feet, held securely by a person at all times.
- Your animal must not be tethered to a stationary fixture or tree when left unattended.

Housing Rules

- Generally, only one emotional support animal is approved to be in residence in a single college housing unit.
- Your ESA is only permitted inside your assigned campus residence. It may not accompany you into any other public buildings on campus, including the dining area.
- Your ESA must be housebroken. Animals that are not housebroken may be removed from campus housing.

Animals Left in Vehicles

If your animal is left in a vehicle and TSTC determines there is imminent danger due to temperature or inadequate ventilation, we may take reasonable steps to remove the animal. TSTC is not liable for any repair or damage costs to your vehicle, and you assume full responsibility.

When We May Remove Your ESA

We reserve the right to remove your emotional support animal if:

1. It poses a direct threat to the safety of others or causes significant property damage.
2. Its presence creates an undue burden (an unreasonable cost or difficulty) or fundamentally changes a college program or service.
3. The animal is left unattended for eight or more hours.
4. It creates an unmanageable disturbance or interference with the college community.
5. You do not comply with the conditions set by the Access and Learning Accommodations (ALA) Office and the Student Housing Office.

If your ESA is removed, you have the right to appeal this decision through the process described in the Access and Learning Accommodations grievance procedure section of this Handbook and in SOS ES 3.26.

Roommates and Allergies

Some people have allergic reactions to animals severe enough to qualify as a disability. We will consider the needs of your assigned roommate, suitemates or apartment mates when working to reasonably accommodate everyone involved, and we will work to resolve any conflicts as efficiently and quickly as possible. Conflicts will be addressed through an interactive process managed by the ALA Office in coordination with the Housing Office. Resolution options may include mediation, room reassignment or other reasonable accommodations for either party.

Any removal of an animal and any necessary cleaning, repairs or pest control will be at your expense as the owner. You may also face disciplinary action if your animal poses a substantial and direct threat to health or safety, or if its presence fundamentally changes the nature of a program or service. We make those determinations on a case-by-case basis.

Animal Etiquette

As the handler, you should make every reasonable effort to ensure your animal does not:

- Sniff people, outdoor campus dining tables, or others' personal belongings.
- Display behaviors that are disruptive to those around you.
- Block any passageway used for fire egress (emergency exit routes).
- Behavioral violations by your animal may result in disciplinary action against you as the student handler.

Handler Responsibilities

Cleaning up after your animal is your responsibility alone. If you are not physically able to do so, you must arrange for someone who is both capable and explicitly willing to clean up after the animal. Whoever handles cleanup must:

1. Always carry sufficient equipment to clean up the animal's waste while on campus
2. Properly dispose of all waste in appropriate containers

If TSTC staff is needed to clean up after your animal, we may impose a financial responsibility on you as the handler.

Grievance Procedure for Disability or Access-Related Complaints

As a student, you have the right to file a grievance if you believe you have been denied equal access in the form of appropriate accommodations, modifications, auxiliary aids, or effective communication, or if you have experienced discriminatory harassment as outlined in any of the following laws:

- [Section 504 of the Rehabilitation Act of 1973](#)— prohibits discrimination based on disability in programs receiving federal funding and requires such programs to provide reasonable accommodations and published grievance procedures.

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- [The Americans with Disabilities Act of 1990 \(ADA\)](#)— prohibits disability-based discrimination in public life, including education.
- [The Americans with Disabilities Act Amendments Act of 2008 \(ADAAA\)](#)— expanded the definition of disability under the ADA.
- [The Fair Housing Act](#) — prohibits discrimination in housing-related matters and requires reasonable accommodations in housing for individuals with disabilities, including approved emotional support animals.

Primary responsibility for ensuring compliance with Section 504, the ADA, and the ADAAA rests with the college's **ADA/504 Coordinator**.

Who is the ADA/504 Coordinator? *This is the college official responsible for making sure TSTC follows federal disability laws. They are your go-to contact when you have a disability-related concern that hasn't been resolved through the Office of Access and Learning Accommodations. You can reach them directly at: ADACoordinator@tstc.edu.*

Student education records are maintained and disclosed in accordance with the Family Educational Rights and Privacy Act (FERPA).

Note: If your complaint involves broader student rights concerns beyond disability access, you may also be eligible to file under the general Student Grievances and Complaints procedure (SOS ES 3.24).

Procedure for filing student-related grievances

Our procedure for filing student-related grievances regarding ADA, ADAAA, Section 504, and Fair Housing Act violations is as follows:

Step 1 — Submit a Written Complaint

You must submit a written complaint to the Office of Access and Learning Accommodations at adarequest@tstc.edu as soon as you become aware of the alleged violation, but no later than 10 working days after the alleged action occurred.

The 10-working-day deadline may be reconsidered for good cause, as determined by the Office of Access and Learning Accommodations

Your written complaint must include:

- Your name and address
- A brief description of the alleged violation
- Any documents that support your complaint

The Office of Access and Learning Accommodations (ALA office) will work with you through an interactive process to help clarify and resolve the issue. When needed, the ALA office may consult with the ADA/504 Coordinator, staff and/or other relevant parties to assist in reaching a resolution.

Step 2 — Review and Response

The ALA office will review your complaint and provide a written response within 10 working days of receiving it. If more time is needed, an extension of up to 15 working days may be granted, and you will be notified if that extension is applied.

Step 3 — Written Appeal

If you are not satisfied with the ALA office's decision, you may submit a written appeal to the ADA/504 Coordinator within 10 working days of receiving that decision. The 10-working-day deadline may be waived for good cause, as determined by TSTC's ADA/504 Coordinator.

Your written appeal at this stage must include:

- Your name and address
- A description of the reason for your complaint

Upon receipt, the ADA/504 Coordinator will review your appeal with members of the College's ADA Compliance Committee within 10 working days (or up to 15 working days with notice to you). When necessary, the ADA/504 Coordinator will consult with the ALA office and/or the ADA compliance committee to assist in reaching a resolution.

You may request accommodations at any time during this grievance process by contacting the Office of Access and Learning Accommodations at adarequest@tstc.edu.

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TSTC strictly prohibits retaliation against any student who files a grievance, participates in an investigation, or exercises any right described in this procedure. Retaliation is itself a violation of federal law and TSTC policy. Report suspected retaliation to the ADA/504 Coordinator immediately.

The ADA/504 Coordinator's decision is final at the college level. If your appeal is not resolved at the college level, you may choose to file a complaint with one or more of the following federal agencies:

- [United States Department of Education — Office for Civil Rights](#)
- [U.S. Department of Justice](#)
- [U.S. Department of Housing and Urban Development](#)

Federal agency complaints generally must be filed within 180 calendar days of the alleged discrimination. Filing a complaint with TSTC does not automatically extend federal agency deadlines. Contact the relevant agency for specific filing requirements.

Access and Learning Accommodations Contacts

ALA offices are staffed during regular College business hours (M-F, 8:00 AM – 5:00 PM). For urgent accommodation needs, please note 'URGENT' in the subject line or leave a message specifying the deadline.

Office (Statewide)

254-867-3600
adarequest@tstc.edu **Abilene, Breckenridge, Brownwood, and Sweetwater (West Texas)**

650 E. Hwy 80
Abilene, TX 79601
325-734-3645 **Fort Bend County & New Braunfels**

Brazos Center
26706 SW Freeway
Rosenberg, TX 77471
337-936-3739 **Harlingen**
Student Services Bldg. EK, Room 216
1902 N. Loop 499
Harlingen, TX 78550

956-364-4520
TTY: 956-364-4526 **Marshall**
Administration Building, Room 150
2650 E. End Blvd. South
Marshall, TX 75671

903-923-3231 **North Texas**
119 N. Lowrance Road
Red Oak, TX 75154

469-820-6811 **TSTC Online**
254-867-3600

adarequest@tstc.edu **Waco**
Student Services Center
3801 Campus Drive
Waco, TX 76705

254-867-3600 **Williamson County**
East Williamson County Higher Education Center
1600 Innovation Blvd.
Hutto, TX 78634

512-759-5907 **ADA/504 Coordinator**
Edda Urrea

Sr. Executive Director of HR Learning & Development
and Compliance – Title IX & ADA/504 Coordinator
Texas State Technical College
1902 N. Loop 499
Harlingen, TX 78550
O: 254-867-4748 (1HR4U) / 956-364-4042
Email: ADACoordinator@tstc.edu

Note: Ms. Urrea serves as both the Title IX Coordinator (for sex-based discrimination complaints under SOS HR 2.4.15) and the ADA/504 Coordinator (for disability-related complaints under SOS ES 3.26). If your complaint involves both areas, please indicate this in your written submission.

03. Counseling Services

At TSTC, your well-being matters to us. We are committed to supporting your wellness and helping you find a safe, positive environment where you can grow, develop, and reach your full potential.

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Our counselors are here to promote positive mental health, which can improve your personal, career, and academic growth. In counseling, you get to work with a caring professional who has no stake in your personal choices. Whatever you share, our experienced counseling staff is in your corner.

Who can use Counseling Services?

Counseling services are available to all currently enrolled TSTC students at every campus location. Walk-ins are welcome! Keep in mind that sessions depend on availability, if another student has a scheduled appointment, they will be seen first. The only exception is a **crisis situation**, which always takes priority.

If you are taking online classes, you can still access counseling through virtual appointments.

What is a Crisis Situation? *This is an immediate risk to the health or safety of an individual.*

Drug and Alcohol Policy Statement

Texas State Technical College is a drug- and alcohol-free college and workplace. The unlawful manufacture, distribution, purchase, dispensation (meaning the giving out or supply of a substance), possession, or use of illegal drugs or alcohol by students and employees is prohibited on college property and at any college-sponsored activity.

Student and Employee Violations

If you violate this policy as a student, you may face disciplinary sanctions ranging from probation and suspension to expulsion, or referral for criminal prosecution. Employees who violate this policy may face disciplinary action up to and including termination.

Possible Alcohol Sanctions:

- Probation
- Online alcohol education course
- Community service
- Workshops
- Removal from TSTC housing facilities
- Suspension
- Expulsion

Possible Drug Sanctions:

- Probation
- Online drug education course
- Community service
- Removal from TSTC housing facilities
- Suspension
- Expulsion

Our Conduct Officer has the authority to issue sanctions for any violation of the [Code of Student Conduct](#) involving drugs and alcohol. For more information on the disciplinary process, please review the [Code of Student Conduct](#).

The **Family Educational Rights and Privacy Act (FERPA)** permits colleges and universities to inform the parents or guardians of students under 21 years of age when their student has been found in violation of college alcohol and drug regulations.

Who is the Conduct Officer? *This is the school official responsible for reviewing and responding to student behavioral issues.*

What is the Family Educational Rights and Privacy Act (FERPA)? *This is a federal law that protects the privacy of your student education records.*

Alcohol and Drug Use

Drug and alcohol use, misuse, and abuse are complex issues with serious consequences — both for individuals and for communities. Understanding the dangers is a critical part of protecting your health and your future.

Negative consequences can show up in two main ways:

- **Physical dependence** — when your body has learned to require a substance in order to function normally.
- **Psychological dependence** — when you experience persistent cravings or feel that you cannot function without the substance.

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Abuse of any drug or alcohol — whether legal (licit) or illegal (illicit) — can cause damage ranging from minor to severe, temporary to permanent, and in some cases can result in death. Because many illicit drugs are manufactured and sold outside of any regulated system, their contents are unpredictable and may include especially harmful ingredients or dangerous amounts of a substance.

Regardless of the substance, continued use often leads to dependence. Dependence changes the way a person thinks and functions. Obtaining drugs or alcohol can become the central focus of daily life, which frequently leads to:

- Reduced performance at school or work
- Strain on family and personal relationships
- Criminal behavior as a means of financing a habit
- Increased risk of violence and assault
- Social and psychological isolation
- Serious medical problems

If you or someone you know needs support, help is available. For drug and alcohol counseling and referrals, contact Counseling Services at your campus.

If you exhibit signs of excessive drug or alcohol consumption, you will be transported via Emergency Medical Services (EMS) at your own expense to receive medical attention. Refusing to cooperate with EMS personnel may result in your arrest by TSTC campus police.

Health Risks Associated With Alcohol Abuse:

- Increased risk of liver cancer
- Increased risk of cirrhosis of the liver
- Increased risk of heart disease
- Adverse reactions when combined with many medications, including over-the-counter drugs
- Overdose resulting in respiratory failure
- Impaired concentration
- Impaired coordination
- Risk of permanent nerve damage from long-term abuse

Health Risks Associated With Marijuana Use:

- Lowered sperm counts in men
- Decreased testosterone levels in men
- Increased testosterone levels in women
- Enhanced cancer risk
- Impaired short-term memory
- Psychological dependence

Health Risks Associated With the Use of Cocaine and Crack:

- Addiction
- Heart attack
- Stroke
- Respiratory failure
- Brain seizures
- Hepatitis or AIDS through sharing needles
- Decreased ability to combat infections
- Violent, erratic or paranoid behavior
- Anxiety, depression
- Cocaine psychosis

Health Risks Associated With the Use of Hallucinogens:

- Sleeplessness and tremors
- Convulsions
- Heart and lung failure
- Depression, anxiety and paranoia
- Violent behavior

For more information, please visit the [Drug Free Schools and Campus Act](#) page on our website.

Counseling Services Contacts

Counseling offices are staffed during regular College business hours (M-F, 8:00 AM – 5:00 PM).

Abilene, Breckenridge, Brownwood, Sweetwater

650 E. Highway 80

Abilene, TX 79601

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325-734-3653

Williamson County

1600 Innovation Blvd.

Hutto, TX 78634

254-867-3026

Fort Bend County & New Braunfels

26706 Southwest Freeway

Rosenberg, TX 77471

346-239-3232

Harlingen

1902 N. Loop 499

Harlingen, TX 78550

956-364-4314 or 956-364-4300

Marshall

2650 East End Blvd. South

Marshall, TX 75672

903-923-3543

North Texas and Online

119 N. Lowrance Rd.

Red Oak, TX 75154

254-867-2996

Waco

3801 Campus Drive

Waco, TX 76705

254-867-3026 or 254-867-2299

04. Advocacy & Resource Center (ARC)

The Advocacy & Resource Center (ARC) is here for you. To promote Texas-Sized Care at Texas State Technical College, we are dedicated to addressing student-defined needs, eliminating barriers and doing Whatever It Takes to help our students reach success.

When life gets in the way, the ARC team is here to help. Everyday life challenges such as needing food, housing or child care can make it hard to focus on school. We function as a resource and referral center, connecting you with outside agencies or internal programs to help you clear whatever obstacle is standing between you and graduation. When life happens, we have resources that can help.

ARC Services Food & Hygiene

If you are worried about where your next meal is coming from, we can help. The ARC offers a variety of food items and personal hygiene products through our food pantry program— all free of charge to any TSTC student. Hunger should never stand between you and your degree. Donations of nonperishable food and hygiene items are always welcome.

Child Care Assistance

We know that many of our students are balancing school with raising a family. The ARC provides referrals for child care services, and some campus locations also offer **child care stipends**. Availability of these services may depend on the qualifications set by your ARC location and each child care agency.

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What is a Child Care Stipend? This is a fixed amount of financial assistance given to help cover the cost of child care.

Transportation Assistance

Getting to campus should not be a barrier to your education. Transportation stipends are available at all TSTC campuses through the ARC for students who meet program qualifications.

Book & Tool Loan Program

Through our Lending Library, the ARC can assist you with books and tools you need for your program. Priority is given to students who fall into one of these groups — unhoused individuals, individuals returning to the workforce, single parents, veterans, economically disadvantaged students and families, and students with disabilities.

Note: *These are groups of students who might face unique challenges. When needed, the ARC office may consult with the ADA/504 Coordinator, staff, and/or other relevant parties to fully understand the student challenge.*

Additional Services

The ARC offers a wide range of support beyond the services listed above, including:

- Basic needs case management
- Life skills workshops
- Community resource referrals
- Helping Hands basic needs scholarships

What is Case Management? *This means you will work one-on-one with an ARC staff member to explore the support and resources you may need.*

Services for Students Who Are The Parent or Guardian of a Child Younger than 18 Years of Age

If you are a current or incoming TSTC student who is the parent or guardian of a child under 18, ARC staff members serve as your liaison officers — meaning they act as your dedicated point of contact to help you find the support you need. We can connect you with information about services and resources available to you, including but not limited to:

- Child Care Referrals
- Child Care Assistance Stipends (contingent on meeting the qualifications for your campus and child care servicing agency)
- Transportation Assistance and/or referrals
- Resource referrals for medical and behavioral health coverage and services
- Referrals to and assistance applying for public benefit programs (government assistance programs like SNAP), including programs related to food security, affordable housing and housing subsidies
- Referrals to other TSTC support services, such as tutoring, mentoring, counseling, and more
- Referrals for employment assistance
- Other ARC services and referrals tailored to your individual needs

Services for Students Who Were Formerly in the Conservatorship of Department of Family and Protective Services (DFPS)

If you were formerly in the conservatorship of DFPS — meaning you were previously under the legal care and supervision of the state through the foster care system — ARC staff members serve as your liaison officers at TSTC. We can provide you with information about support services, resources and any other relevant assistance available to you, including but not limited to:

- Referrals to the **DFPS PAL (Preparation for Adult Living) caseworker** for your region
- Assistance navigating the [foster care tuition waiver](#) process
- Referrals for scholarships
- Basic Needs Scholarships specifically designed for students who have been in foster care
- Referrals to and assistance applying for public benefit programs, including programs related to food security, affordable housing and housing subsidies
- Referrals to other support services we offer at TSTC, such as tutoring, mentoring, counseling, and more
- Other ARC services and referrals that can support your needs

What is a DFPS PAL (Preparation for Adult Living) Caseworker? *This is a caseworker who helps older youth (ages 14–17 currently in DFPS conservatorship) and former foster youth (up to age 21 with extended case management to age 23 for certain services) transition out of foster care.*

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What is a Foster Care Tuition Waiver? *This is a state program that allows eligible students who were in foster care to attend college without paying tuition.*

How to Connect with ARC

Ready to reach out? Learn more about the ARC and TSTC's Culture of Caring by emailing cultureofcaring@tstc.edu or visiting our website at tstc.edu/caring, where you can find ARC staff contact information and the [Request for Support Form](#). No matter which TSTC location you attend — including online — you can connect with an ARC staff member. We are here for you.

Note: *Services are provided without regard to race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), parental status, national origin, age, disability, genetic information (including family medical history), political affiliation, military service, or other non-merit based factors.*

Note: *Online students have access to all of the following services delivered via web, portal, email, telephone, or video conferencing: Learning Resource Center (Library Services) materials, bookstores, registration, testing, tutoring, advising, support services, and financial aid.*

Advocacy & Resource Center Locations

Fort Bend County

ITC 2nd Floor, Suite 234
26706 SW Freeway
Rosenberg, TX 77471

Harlingen

Student Services Center, Rooms 124-127
1902 N. Loop 499
Harlingen, Texas 78550

Marshall

Center for Applied Technology (CAT) Building, Rooms 105 & 106
2650 East End Blvd. South
Marshall, TX 75672

North Texas

119 N. Lowrance Rd, Room 121
Red Oak, TX 75154

Waco

Student Services Building, Suite 136
3801 Campus Drive
Waco, Texas 76705

Williamson County

1600 Innovation Blvd. (CR 108), Room C102

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Hutto, Texas 78634

Abilene

650 E. Highway 80, Rooms 144 & 145

Abilene, TX 79601

Sweetwater

Graphics Building, Room 123

300 Homer K. Taylor Dr.

Sweetwater, TX 79556

Breckenridge (food pantry)

Main Building, Student Lounge

307 N. Breckenridge Ave

Breckenridge, TX 76424

Brownwood (food pantry)

Welcome Center, Room 137

301 Main Street

Brownwood, TX 76801

New Braunfels (food pantry)

TSTC & FAME Center

Student Lounge, Room 123

2189 FM 758

New Braunfels, TX 78130

05. Advising and Tutoring

Advising

Program advisors are here to help you succeed — and that means more than just tracking your grades. Your advisor works with you to build personalized strategies around learning, time management, task prioritization and organization, self-advocacy, and decision-making. Your Program Advisor helps you navigate program deadlines, complete certification or licensure requirements, and they connect you with other departments to help prepare you for employment after graduation.

Beyond academics, program advisors support your social and emotional well-being as you adjust to the transitions of college life. Your advisor can connect you with:

- Access and Learning Accommodations — support services for students with disabilities
- Advocacy and Resource Center -- help with basic needs
- CARE Team
- Counseling -- mental health care by a licensed professional
- Library Services
- Student Development
- Title IX concerns
- Testing
- Tutoring and other learning support resources

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Your advisor also helps you understand program policies alongside TSTC's [College Code of Conduct](#) and assists with return-to-program planning if you ever need to step away and come back.

Tutoring

TSTC offers free tutoring in both technical and academic subjects — and every TSTC student can use it.

Tutoring sessions are delivered one-on-one or in small groups through live, virtual sessions via Google Meets, with some evening and weekend availability. Limited in-person tutoring may also be available — check the [Statewide Tutoring Schedule](#) for current details.

You can request tutoring services two ways:

- Visit tstc.edu/tutoring to view the Tutoring Schedule
- Make a [Tutor Request](#)

From the Tutoring Schedule you can also view information on session types and find links to [Academic](#) and [Technical](#) open labs.

For more information, contact the Director of Advising and Tutoring, Rachel King, at 325-734-3645.

06. Career Services

Career Services is your go-to place to get hired! It is the bridge between your education and your career, and between Texas employers and TSTC talent.

Helping you find a job after graduation is central to what we do at TSTC. Our mission is to meet the workforce needs of Texas, and Career Services is where that mission gets personal. TSTC maintains a high job placement rate, and we work hard to keep it that way by building strong relationships with employers across the state.

Through strategic partnerships with industry leaders in each technical program, Career Services creates real opportunities for you — whether you are a current student or a TSTC alumnus (a graduate of the college) — to succeed in your job search.

We believe our work does not end when you finish your studies. Career Services empowers you to identify, communicate, and leverage your technical skills and hands-on experience so you can compete confidently in a job market that is always changing. Whether you are looking for your first job in your field or continuing your education, we are here to support you every step of the way.

Employer Standards and Equal Employment Opportunity

To protect you during your job search, Career Services holds employers to a clear set of standards. We reserve the right to decline posting job listings from any employer that fails to comply with applicable laws in their job postings.

[Equal Employment Opportunity \(EEO\)](#) compliance is a non-negotiable standard for any employer recruiting TSTC students and graduates. Employers recruiting through Career Services are required to uphold EEO compliance by doing all of the following:

1. Reviewing selection criteria to identify the best-qualified applicant.
2. Avoiding interview questions that are considered unacceptable under EEO standards during the recruiting process.
3. Keeping the campus community informed about recruiting activities developed to meet the employer's goals.
4. Investigating any EEO noncompliance complaints forwarded by the Career Services Office and working toward resolution.
5. Providing reasonable accommodations upon request — coordinated with the Access and Learning Accommodations Office for students.

What is Equal Employment Opportunity (EEO)? This is the legal requirement that employers treat all job applicants fairly, without discrimination based on race, color, religion, gender, national origin, age, genetic information, disability, sex (including pregnancy, gender identity, and sexual orientation), parental status, political affiliation, and military service.

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HIRE 1000: Foundations for Career Success prepares you for workplace success by covering essential professional skills and workforce essentials, including job readiness, resume writing, interviewing skills, soft skills, job search strategies, networking, and career planning. This course is offered free of charge to all TSTC students. Students enrolled in qualifying Money Back Guarantee programs must successfully complete HIRE 1000 to meet one of the requirements for participation in [TSTC's Money Back Guarantee program](#).

What is the Money Back Guarantee program? The Money Back Guarantee program is TSTC's commitment to your career success. If you complete all program requirements — including HIRE 1000 — and do not secure a job offer within six months after graduation, you may be eligible for a tuition refund.

07. Student Leadership & Clubs

Clubs and Organizations

We encourage you to join or start a club at TSTC with the guidance of a current TSTC faculty or staff member who will serve as the club's advisor. Clubs may be career-focused or centered on personal interests, and some are open to dual credit students. Student organizations may not be established for secret purposes. The club advisor is responsible for overseeing student activities sponsored by the organization.

All clubs and professional organizations must receive official approval before operating. Once recognized, your organization must coordinate and register any social functions, fundraisers or volunteer activities — whether on or off campus — with the college. The sale or consumption of alcohol at any student organization or social event, on or off campus, is prohibited, except where expressly permitted. You and your advisor are responsible for following all TSTC policies, as well as applicable state and federal laws.

Keep in mind: TSTC's reputation is shaped by how its students behave, both on and off campus. You are accountable to college authorities for any conduct that raises concern, regardless of where it happens.

If you are interested in starting a new club or organization, reach out to Student Engagement for guidance. Prior to conducting any substantial club activities, student/employee organizations must submit and receive approval of THREE specific documents from the Chancellor or designee: (a) a campus student/employee organization charter, (b) a constitution, and (c) the organization's bylaws in order. Additionally, updated constitutions/bylaws must be re-submitted for approval within three (3) days of any changes.

Note: The following statement must be contained in every club/organization's constitution: *Membership in this club/organization shall be open to all students (employees) without regard to race, color, sex, religion, national origin or disability.*

Student Clubs/Organization Risk Management Policy

Under [Texas Education Code §51.9361](#), the advisor and president, or another designated officer, of each registered student organization must complete a risk management program every academic year. Risk management training means learning how to identify and reduce potential dangers or liabilities associated with your organization's activities.

By law, that training must cover, at minimum:

- Possession and use of alcoholic beverages and illegal drugs
- **Hazing**
- Sexual abuse and harassment
- Fire and other safety issues
- Student travel guidelines
- Behavior at parties and other events held by the club or organization
- Adoption of a risk management policy
- Issues regarding persons with disabilities

If your organization does not comply, the college administration or Board of Regents may withdraw, withhold or deny your organization's official recognition.

What is Hazing? Hazing is any activity expected of someone joining a group that humiliates, degrades or risks emotional and/or physical harm to include specific enumerated acts (physical brutality, forced consumption of food/liquor/drugs, sleep deprivation, forced physical activity, activity that induces mental stress).

Free Speech

TSTC is committed to being a place where ideas can be shared openly and respectfully. We honor your rights to free speech, expression, petition and peaceful assembly as protected by the U.S. Constitution.

For more details, see our Statewide Operating Procedure [ES 3.23 STUDENT RIGHTS AND RESPONSIBILITIES](#)

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Student Travel

Official student travel means any trip where one or more students travel to a TSTC-organized or TSTC-sponsored event that is either more than 25 miles from campus or requires an overnight stay. Please note that international travel is not permitted at TSTC.

Your faculty or staff member, or club advisor, is responsible for making sure all TSTC rules are followed on every trip. For overnight trips, advisors and students must stay in the same hotel facility or complex, and everyone must travel together during off-campus trips. Your advisor must submit a completed student travel packet at least 10 days before the trip. For full details, see the Student Organization Handbook.

To be eligible to travel, you must:

- Be in good standing, meaning you are meeting the college's academic expectation and have no outstanding disciplinary issues
- Have at least a 2.0 GPA
- Have no holds on your account. Holds are administrative restrictions placed on your student account that prevent you from completing certain actions, like traveling or registering for classes.

Each student is reviewed individually on a case-by-case basis.

If you plan to drive your personal vehicle — or transport other students in it — on a college trip, you must sign a waiver and show proof of current liability insurance. On longer trips where the college provides state vehicles or contracted transportation, you are required to use that transportation. Students who ride in a state vehicle must sign a field trip release form. Students are not permitted to drive state vehicles.

For more information, see Statewide Operating Procedure [ES 3.22 Student Travel](#)

08. Library Services

College coursework moves fast, but you don't have to navigate your assignments alone. Library Services provides 24/7 online access to:

- Databases
- Ebooks, online journals & digital magazines
- Audiobooks
- Technical Videos
- Movies & Documentaries
- Step-by-step guides & tutorials

Whether you need help finding trustworthy sources for a research paper, formatting citations, or navigating digital tools, the library team is here to help you save time and succeed. Connect with a librarian via live chat, email, or scheduled consultation whenever you need a guide in your corner. Bookmark the library's homepage today and explore your online resources.



Ready to get started? Reach out to the library:

Website: tstc.libguides.com

Email: asklibrary@tstc.edu

Text: 254-332-2968

Chat/Submit a Question: tstc.libguides.com/askus

09. TSTC Café

We offer convenient food services across multiple campuses to help keep you fueled for your studies! Please keep in mind that meals are not available on weekends. Because each location is unique, we encourage you to reach out directly to your local campus food service for specific hours of operation and pricing.

If you are attending our Harlingen, Sweetwater or Waco campuses, we also have [meal plans](#) available for you!

12. Campus Security and Safety

01. Annual Security Report (Clery Report)

The Jeanne Clery Campus Safety Act

To keep you informed and safe, we comply with the Jeanne Clery Campus Safety Act, formally known as the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. This federal law requires colleges and universities to publish an Annual Security Report by October 1 each year, which must disclose crime statistics for incidents that occur:

- On campus
- At off-campus college facilities
- In residence halls
- On public property immediately adjacent to campus

We prioritize your safety by issuing timely warnings and emergency notifications, ensuring full compliance with the law.

What is the Jeanne Clery Act? *The Clery Act is a federal consumer protection law that gives students and families the right to accurate, timely information about crime on or near a college campus.*

Campus Fire Safety Right-to-Know Act

Under the Campus Fire Safety Right-to-Know Act — established by the Higher Education Opportunity Act of 2008 — we maintain comprehensive fire safety reporting for all on-campus housing facilities. The annual fire safety report includes current information about fires in on-campus housing, along with fire prevention and safety policies.

It is our policy at TSTC to fully comply with the federal mandates of the Clery Act by collecting and furnishing the Annual Security and Fire Safety Report.

Daily Crime and Fire Log

The TSTC Police Department maintains a daily crime and fire log with summary information about crimes reported to college police and any fires in on-campus student housing facilities. This log is open for public access during normal business hours.

Annual Security and Fire Safety Report

The Annual Security and Fire Safety Report contains data on specific offenses that occurred on campus for the most recent calendar year, along with data from the two preceding calendar years. It also includes the number of arrests for crimes occurring on campus. Additional details in the report include:

- A geographical breakdown of incidents
- An expanded definition of "campus"
- Reporting of **hate crimes**

What is a Hate Crime? *A hate crime is a criminal offense committed against a person or property that is motivated, in whole or in part, by bias against a race, religion, disability, sexual orientation, ethnicity, gender, gender identity, or national origin.*

The [TSTC Annual Security and Fire Safety Report](#) is available online.

Sex Offender Registry

Information provided by the state of Texas concerning registered sex offenders may be obtained through the [Texas Department of Public Safety's website](#). For additional information about college safety, or for information relating to state or federally mandated public information requirements, visit [TSTC's safety and security website](#).

02. Campus Carry

Your safety, as well as the safety of everyone on campus, is our top priority at TSTC. We take the issue of guns on campus seriously.

Under [Texas Penal Code Section 46.03](#) possession of any weapon on TSTC physical premises is prohibited — with one exception. Individuals who hold a valid License to Carry (LTC) under [Subchapter H, Chapter 411 of the Texas Government Code](#) may carry a **concealed** handgun only in areas that have not been designated as prohibited. A license holder who knowingly or intentionally displays a handgun, in whole or in part, in plain view of another person on TSTC premises commits a Class A misdemeanor. **Open carry** is not permitted on any TSTC campus or premises. This restriction does not apply to licensed peace officers who are authorized by law to carry firearms in the course of their duties.

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What does "concealed" mean? *A concealed handgun is one that is not visibly displayed or openly carried — it must be hidden from plain view at all times.*

What does "open carry" mean? *A handgun in plain view of another person in a public place.*

We are in full compliance with [SB 11 of the 84th Texas Legislative Session](#) which governs the carrying of concealed handguns with a permit on college campuses. Our campus carry policies outline exactly where licensed carry is and is not permitted on TSTC property. All incidents involving firearms are to be promptly reported to the TSTC Police Department or, where there is no TSTC Police Department, to the appropriate law enforcement agency.

03. Racial Profiling Policy

The TSTC Police Department is committed to proactive, professional policing. Our officers actively enforce state and federal laws without regard to race, ethnicity or national origin. Every person on our campus has the right to equal treatment and the right to be free from **unreasonable searches and seizures**.

What is an Unreasonable Search or Seizure? *An unreasonable search or seizure is one conducted without legal justification, such as a warrant or probable cause, and is protected against under the Fourth Amendment of the U.S. Constitution.*

What Racial Profiling Is — and Isn't

Racial profiling is an unacceptable patrol tactic. Our officers are strictly prohibited from engaging in it, and this policy applies to everyone; drivers, passengers and pedestrians alike.

Prohibiting racial profiling does not mean race, ethnicity or national origin can never be considered. These factors may be legitimate when they are part of an actual description of a specific suspect an officer is searching for. What is never acceptable is detaining someone simply because of their race, ethnicity or national origin.

Examples of racial profiling include, but are not limited to:

- Citing a driver who is speeding in a stream of traffic where most other drivers are also speeding, solely because of that driver's race, ethnicity or national origin.
- Stopping the driver of a vehicle based on the assumption that a person of that race, ethnicity or national origin is unlikely to own or possess that specific make or model.
- Detaining someone based on the assumption that a person of that race, ethnicity or national origin does not belong in a specific part of campus or town.

Our Two Core Principles

The TSTC Police Department operates under two foundational principles on this issue:

1. Officers may not use racial or ethnic stereotypes as factors in deciding whom to stop and search.
2. Officers may use race in conjunction with other known, specific factors related to a suspect's description.

This policy applies to interactions with suspects. It is not relevant to interactions with witnesses or bystanders.

Questions or Complaints?

If you have questions or concerns about the TSTC Police Department's racial profiling policies or procedures, contact your local campus police office directly.

Waco | North Texas | Williamson County

Lieutenant Sophia Clark

1101 Airline Drive

Waco, TX 76705

254-867-3690 (office)

254-867-3410 (fax)

sophia.clark@tstc.edu

Harlingen | Fort Bend County | New Braunfels

Lieutenant Eduardo Becerra

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2201 Airport Dr.

Harlingen, TX 78550

956-364-4220 (office)

956-364-5171 (fax)

eduardo.becerra@tstc.edu

Marshall

Lieutenant Jose Burciaga

100 Tech Dr

Marshall, TX 75670

903-923-3353 (office)

jose.burciaga@tstc.edu

Sweetwater | Abilene | Brownwood | Breckenridge

Lieutenant Jonathan Westra

622 Homer K. Taylor Drive

Sweetwater, TX 79556

325-235-7400 (office)

325-236-8254 (fax)

jonathan.westra@tstc.edu

04. Parking & Transportation

Parking Permits

Good news! On-campus parking permits will not be required for you this academic school year. However, if you live on campus, student housing permits are still required and are available for you to pick up at the Student Housing Office.

Note: All vehicles operated or parked on campus at student housing by TSTC students and employees must be registered with the college (housing office) and must properly display a valid parking permit as authorized under Section 51.207 of the Texas Education Code.

Vehicles and Parking on Campus

TSTC does not assume responsibility for any vehicle or its contents while parked or operated on college property.

Here is what you need to know before you park or drive on campus:

- **Follow all applicable laws.** You are required to follow all federal, state and campus statutes related to operating or parking any vehicle on campus.
- **Keep your vehicle legal and operable.** Every vehicle parked on campus must have proper license plates, current registration and a parking permit (if applicable). Inoperable vehicles are not allowed on campus, and no vehicle may be left on jacks, logs, blocks, or similar supports.
- **No repairs in common areas.** Repair work of any kind is prohibited in parking lots or any other common area.
- **Park only in designated areas.** Parking on grass, sidewalks, in front of trash dumpsters, or in any area marked restricted is prohibited. Violations may result in your vehicle being towed at your expense.
- **Certain vehicles are prohibited on campus entirely.** Eighteen-wheelers, trailers of any type, boats, recreational vehicles, and all motorized off-road vehicles are not permitted on campus.

Any vehicle found in violation of these rules may be subject to a ticket, wheel lock or towing — all at the owner's expense. Any damage caused by unauthorized activities will be charged to the offender's student account.

Vehicle operation on campus is regulated by TSTC's police department. It is your responsibility to know these regulations and follow them at all times. For a full list of parking and traffic rules, visit the [TSTC Safety & Security page](#)

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05. Making a False Alarm or Report

Ensuring the safety of our entire campus community is our highest priority. To maintain this secure environment, it is critical that you recognize the gravity and potential legal repercussions of reporting emergencies. According to [Texas Penal Code Section 42.06](#), it is a violation of the law to intentionally initiate, communicate, or circulate **false report** regarding an explosion, fire or any other urgent situation — including threats concerning past, present or future events — when you are aware that the information has no factual basis.

What is a "false alarm or report"? A false alarm or report refers to any emergency notification you provide that you know to be fabricated or groundless, without any supporting evidence.

Providing a deceptive report is considered a criminal act when the information would typically result in:

- Mobilizing an emergency response organization, such as law enforcement, fire services or volunteer rescue groups
- Placing an individual in fear of imminent and serious physical injury
- Compelling the evacuation or suspension of activities in a facility, room, public area, aircraft, or any other vehicle used for transport

Why does this matter for TSTC students? When such an offense involves a public or private institution of higher education, it may be categorized as a state jail felony. Under Texas law, a conviction for a state jail felony can lead to a fine of up to \$10,000 and incarceration in a state jail for a period ranging from 180 days to two years.

Beyond these legal consequences, initiating a false report is a direct violation of the TSTC Code of Student Conduct. This may lead to institutional disciplinary measures, which are independent of any criminal prosecution or conviction. Such behavior may also be referred to the CARE Team for a formal assessment and further action, including potential emergency separation or involuntary withdrawal from the College, as authorized by TSTC policy.

If you encounter a legitimate emergency, please report it immediately by dialing 911 or contacting the TSTC Police Department or a designated Campus Security Authority (CSA) in accordance with our emergency protocols.

06. Lost and Found

If you happen to lose something on campus, do not worry! Any lost and found items are turned over to our College Police Department or a designated campus office. We will make every effort to return the items to you, the rightful owner.

Where and When to Claim Your Property

You can reclaim lost property at the College Police Department, the Security Department, or your campus's designated office during the following hours:

Monday – Friday: 8 a.m. to 5 p.m.

What You'll Need to Pick Up Your Item

To reclaim your property, you must bring two things:

1. **Valid identification** — such as a Texas driver's license, Texas Identification card, TSTC Student ID
2. **A sufficient description of the item** — enough detail to confirm the property belongs to you

What Happens to Unclaimed Property

If we cannot locate the owner, lost or abandoned property is held for **30 days**. After that window closes, any unclaimed items are disposed of according to [Article 18.17 of the Texas Code of Criminal Procedure](#) which governs how abandoned property is handled by law enforcement agencies in Texas, and the College's SOS [FA 1.13 Disposal of Surplus Property](#).

What does "disposed of in accordance with Article 18.17" mean? Under this law, unclaimed property may be sold at public auction, transferred to a government agency, or otherwise lawfully released — depending on the nature of the item.

Lost and Found Contact Information

Here is the contact information for the designated lost and found offices across our locations:

Abilene

Associate Provost

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325-734-3632

Breckenridge

Associate Provost

254-559-7707

Brownwood

Associate Provost

325-641-3911

Williamson County

Temple College Security

512-759-5911

Fort Bend County

Security Office

346-239-3390

Harlingen

Campus Police

956-364-4220

Marshall

Security Office

903-923-3351

New Braunfels

Reception/Front Desk

830-402-1800

North Texas

Provost Office

469-820-6795

Sweetwater

Campus Police

325-235-7400

Waco

Campus Police

254-867-3690

07. Bicycle, Skateboard, Hoverboard (and other self-balancing boards/scooters) and Rollerblade Use Guidelines

You are welcome to ride bicycles, roller skates, in-line skates, scooters, hoverboards, Swagways, Segways, IO Hawks, Skywalkers, skateboards, and similar self-balancing boards or coasting devices on campus — as long as you take all necessary safety precautions.

Reduce Risk

All personal transport devices must be used in a way that:

- Prevents or reduces the risk of personal injury
- Supports safe, active transportation across college property
- Protects TSTC facilities and property from any damage

Prohibited Locations

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You may not ride or leave your device in any of the following locations:

- Inside buildings
- Hallways
- Staircases
- Classrooms
- Lounges
- Laboratories, shops, or other instructional areas with potential hazards
- Residence halls (your on campus housing)
- Areas containing hazardous or flammable materials
- Any area where campus rules, regulations, or posted signage prohibit their use

Prohibited Use

Using any of these devices in a way that:

- Puts yourself or others at risk
- Damages TSTC college property
- Disrupts vehicle or pedestrian traffic
- Interferes with College operations or emergency response is strictly prohibited

The TSTC Police Department and other officials enforce these requirements along with all applicable state and federal statutes governing transport devices on campus.

Violations of these guidelines may lead to institutional disciplinary measures, referral through the TSTC Code of Student Conduct, or criminal enforcement.

If you encounter a safety incident or accident involving a device, please report it immediately to the TSTC Police Department or another designated campus official.

For additional information regarding enforcement or disciplinary actions, you may refer to the TSTC Code of Student Conduct and formal grievance procedures.

08. Health Regulations

Communicable Diseases

Protecting the well-being of our students, staff, and visitors is a fundamental priority. We define communicable diseases as those capable of spreading from one person animal or surface to another, and we remain dedicated to meeting all state and federal safety mandates along with public health recommendations.

These illnesses may include, but are not restricted to:

- Measles
- Influenza (the flu)
- Hepatitis (viral)
- HIV infection
- AIDS
- Meningococcal disease or meningitis
- Tuberculosis

As regulatory requirements for reporting can change, you should refer to the [Texas Department of State Health Services \(DSHS\)](#) for the latest list of reportable conditions.

When addressing health concerns, TSTC collaborates with local and state authorities to ensure our infection prevention measures align with the most recent public health standards.

It is our policy that students with communicable conditions—including hepatitis or HIV—will not experience discrimination regarding admissions or access to college services and facilities. Any determination about student participation in campus life will be grounded in current medical facts and an individualized assessment of potential safety risks.

Students should report potential communicable disease exposures or health and safety concerns to the appropriate College official and follow applicable College infection prevention procedures.

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Confidentiality

We handle all student health data with the utmost care, adhering strictly to federal and state privacy statutes. This includes compliance with FERPA, and HIPAA where applicable, and the Texas Health and Safety Code. Your medical details are only shared when legally mandated, such as in instances of required public health reporting.

Medical Judgment

Any decision we make regarding a student with a communicable disease will be grounded in current, well-informed medical judgment. That judgment takes into account:

- The nature of the disease
- The risk of transmission to others (how easily it spreads)
- Your symptoms and personal circumstances

If a determination is made that a person poses a health threat, that decision will be based solely on the following factors:

- How long the risk is expected to last
- The nature and severity of the potential harm
- How likely the potential harm is to occur
- How soon the potential harm could occur

When the College determines that a student's medical condition may present a significant health or safety risk, the determination will be based on an individualized assessment using current medical knowledge and applicable public health guidance. Students will be informed of any resulting College action and may have rights under applicable College grievance procedures and disability accommodation processes.

Bacterial Meningitis Notification

Bacterial Meningitis Vaccination Requirement

Texas law requires certain students enrolling at institutions of higher education to provide proof of vaccination against bacterial meningitis or qualify for a statutory exemption.

Unless exempt by law, the vaccination must:

- Be administered within the five years preceding enrollment
- Be received at least 10 days before the student's first day of the semester
- Be submitted in accordance with College enrollment requirements

Texas law provides exemptions for certain students, including:

- Students age 22 or older
- Students enrolled exclusively in online or distance education courses
- Students with a physician-documented medical exemption
- Students who submit an approved affidavit claiming a conscientious or religious objection, as permitted by Texas law

Students should consult Admissions or the Registrar's Office for current documentation requirements before enrolling.

Bacterial meningitis is a serious infection of the membranes surrounding the brain and spinal cord. Vaccination is the most effective method of preventing many forms of meningococcal disease. Additional information is available from the Texas Department of State Health Services and the Centers for Disease Control and Prevention.

09. Campus Assessment, Response and Education (CARE) Team

The TSTC Campus Assessment, Response and Education (CARE) Team promotes campus safety and student success by reviewing reports of concerning behavior, coordinating support resources, and responding to situations that may pose a risk to the health or safety of individuals or the College community.

The CARE Team meets regularly to evaluate reported concerns, assess potential risks, and connect students with appropriate resources. When circumstances warrant, the CARE Team may recommend administrative action in accordance with College policy, including the involuntary separation or withdrawal process.

See something? Say something. If you observe concerning behavior related to a student's mental health, safety, or well-being, report it promptly.

How to Submit a CARE Team Report

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Complete the [CARE Team Report Form](#) online or contact one of the reporting resources listed above.

If there is an immediate threat to life or safety, call 911 first. You should also contact your campus Police Department or Security Department. Reports made to Campus Police, Campus Security Authorities (CSAs), or other designated College officials may also initiate emergency notification procedures when appropriate under College policy.

Students who are the subject of a CARE Team review will be informed of applicable College procedures. When permitted under College policy, students may have a support person participate during the assessment process and will receive information regarding available College processes and resources.

Campus Contact Numbers

CARE Team Contact Info:

careteam@tstc.edu

254-867-3111

West Texas (Abilene, Breckenridge, Brownwood & Sweetwater)

TSTC Police Department

325-235-7400

Fort Bend County

TSTC Security Department

956-364-4220

Harlingen

TSTC Police Department

956-364-4220

Marshall

TSTC Police Department

903-923-3351

New Braunfels

TSTC Police Department

956-364-4220

North Texas

TSTC Police Department

254-867-3690

Waco

TSTC Police Department

254-867-3690

Williamson County

TSTC Police Department

10. Pets on Campus

Pets on Campus

Texas State Technical College is committed to providing a healthy and safe environment for students, faculty, staff, and visitors by managing the presence of animals on campus property and facilities for reasons of health, safety and cleanliness. Animals are not permitted inside TSTC buildings or facilities, including offices, residence halls, recreational facilities, labs, academic buildings, or other college-owned facilities, except as permitted by law or approved as an accommodation.

Service Animals

In accordance with the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act, and other applicable laws, TSTC permits service animals on campus. A service animal is a dog that has been individually trained to perform specific tasks or work directly related to an individual's disability. In certain cases, a miniature horse may also qualify as a service animal.

Emotional Support Animals

The Access and Learning Accommodations (ALA) Office may approve emotional support animals (ESAs) as a housing accommodation for students with disabilities who live in campus housing. An ESA provides disability-related emotional support or comfort but is not trained to perform specific tasks.

Approved ESAs are permitted only in the following locations:

- The student's assigned residence
- Outdoor public spaces in accordance with TSTC policy, while under the control of the owner at all times.

ESAs are not permitted inside other TSTC buildings or facilities unless explicitly authorized.

For additional details regarding Service Animals or ESAs, please consult the Access and Learning Accommodations section found within this handbook.

Contact Information

For more information regarding service animals, emotional support animals or the accommodations process, contact Access and Learning Accommodations at adarequest@tstc.edu.

13. Student Rights and Responsibilities

01. Student Rights and Responsibilities

As a member of the TSTC community, you are entitled to specific rights that protect your experience here. These rights are published online, and you can find the complete official policy in our Statewide Operating Procedure [ES 3.23 Student Rights and Responsibilities](#).

Here is a full list of the rights you hold as a TSTC student:

1. **Freedom from discrimination.** You have the right to be free from discrimination based on race, color, religion, gender, age, national origin, genetic information, sexual orientation, disability, veteran status, or any other class protected by law or the United States Constitution.
2. **Individual development.** You have the right to develop your individual potential.
3. **Quality education.** You have the right to expect a quality education from us.
4. **Freedom to learn.** You have the right to pursue your education without undue interference — meaning no one should obstruct or disrupt your ability to learn.
5. **Personal safety.** You have the right to be free from hazing, threats, stalking, violence, and other harassing actions.
6. **Grievance process.** You have the right to petition the appropriate college unit or body for redress of grievances — that is, to formally raise a complaint and seek a resolution — in accordance with [college procedures](#).
7. **Privacy of records.** You have the right to confidentiality of your official records, transcripts, disciplinary records, and other educational records, consistent with the Family Educational Rights & Privacy Act (FERPA) of 1974, also known as the Buckley Amendment. FERPA is a federal law that protects the privacy of student education records with these four distinct rights: (1) right to inspect and review records within 45 days; (2) right to seek amendment of inaccurate records; (3) right to consent to disclosure of PII; and (4) right to file a complaint with the U.S. Department of Education (Family Policy Compliance Office, 400 Maryland Ave SW, Washington, DC 20202).
8. **Open communication.** You have the right to communicate with administrators, faculty and staff through appropriate processes.

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9. **Freedom of expression.** You have the right to publish and distribute information through appropriate forums, subject to the standards of reasonable journalism and applicable regulations of the United States Constitution and the Federal Communications Commission, as well as college guidelines.
10. **Speech and assembly.** You have the right to freedom of speech and assembly in accordance with the law and college procedures. These rights are subject to the college's requirements for maintaining order and protecting the rights and privileges of other members of the TSTC community.
11. **Student participation.** You have the right and opportunity to participate in shaping the procedures that directly affect you — through membership or appointment to appropriate committees, student leadership organizations, and other recognized groups, as determined by the college.
12. **Access to facilities.** You have the right to access designated college facilities through student organizations that are recognized or approved by the college, for business meetings, special meetings and programs open to the public, in accordance with college procedures.

02. Academic Student Responsibilities

Your academic experience at TSTC is built on a foundation of mutual respect — between you, your instructors, and your fellow students. The rights and responsibilities below define what you can expect from us and what we expect from you.

1. Academic Freedom

Your Right: You have the freedom to study, discuss, investigate, and challenge ideas within your courses in accordance with the principles of academic freedom and applicable University policies. In class and in academic discussions, you may express opinions that differ from others, question course material, and respectfully engage with differing perspectives, data, and viewpoints while maintaining a learning environment consistent with TSTC's values, the Code of Student Conduct, and applicable laws and policies.

Your Responsibility: You and your faculty share responsibility for protecting an environment where learning, inquiry, and respectful expression can occur. You are responsible for engaging with ideas thoughtfully, respecting the rights of others to express their views, avoiding conduct that interferes with another person's ability to participate in expressive activities, and following the Code of Student Conduct, applicable University policies, and laws governing appropriate expression and behavior.

2. Academic Standards

Your Right: You have the right to know the academic performance standards, course requirements, grading criteria, and expectations that apply to each course in which you are enrolled. If you are accused of an academic integrity violation, you have the right to receive notice of the concern, meet with the faculty member regarding the allegation, and request a review of the outcome in accordance with [ES 4.27 Academic Integrity](#).

Your Responsibility: You are responsible for seeking clarification from your instructor when course expectations or academic standards are unclear and for completing assigned coursework, preparing for class sessions, and engaging with course content. You are also responsible for following all University policies related to academic integrity, including standards regarding plagiarism, cheating, and other forms of academic misconduct. Academic integrity concerns may be reported through the Academic Integrity Discipline Report Form process, and violations may result in academic actions, including a reduced or failing grade, suspension, or expulsion, as outlined in [ES 4.27 Academic Integrity](#).

3. Academic Evaluation

Your Right: Your grades must be based solely on your academic performance — not on your background, personal opinions, or conduct outside the classroom. After your instructor returns graded work, you have the right to review tests and other written assignments. You're also protected against unfair or arbitrary grading through the [Student Grievance Procedure](#).

Your Responsibility: If you have a concern about a grade or evaluation, bring it directly to the instructor first. If the two of you can't resolve it, you may submit a written appeal through the **Student Grievance Procedure**.

What is a Student Grievance Procedure? This is a formal process that lets you challenge an academic decision you believe was handled improperly.

4. Confidentiality

Your Right: You have the right to expect that information you share privately with an instructor, adviser, or academic counselor will be treated as confidential to the extent permitted by law. Your education records are protected by the Family Educational Rights and Privacy Act (FERPA), which provides you with the right to inspect and review your records, request amendment of inaccurate records, consent to most disclosures of personally identifiable information, and file a

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complaint with the U.S. Department of Education regarding alleged FERPA violations. Additional information about your FERPA rights and procedures is available in [GA 1.5.2 Student Records](#).

Your Responsibility: Your responsibility is to understand your rights under FERPA and follow college procedures when requesting access to or amendment of your education records. You should also review [GA 1.5.2 Student Records](#), keep your contact information current, and complete any required authorization forms if you choose to permit disclosure of your education records when your consent is required under FERPA.

5. Academic Environment

Your Right: You have the right to pursue your education free from disruption or interference. You can expect TSTC to enforce standards for acceptable classroom behavior that protect the teaching and learning process.

Your Responsibility: You may not disrupt class or any other college activity by any means — this includes side conversations, arguments, intentional noise, offensive images, or anything else that blocks access to academic information or interferes with others' ability to learn.

6. Non-Discrimination

Your Right: You have the right to learn in an environment free from unlawful discrimination, harassment, and retaliation. If you experience or witness discrimination, harassment, or sex-based misconduct, you may report your concern to the Title IX Coordinator or through the procedures outlined in [HR 2.4.15 Prohibiting Sexual Misconduct and Sex-Based Discrimination](#) and [HR 2.5.1 Anti-Harassment, Discrimination, and Retaliation](#).

Your Responsibility: You are responsible for treating every faculty member and fellow student with courtesy and respect, regardless of race, color, religion, sex (including pregnancy, gender identity, and sexual orientation), parental status, national origin, age, disability, genetic information (including family medical history), political affiliation, military service, veteran status, or any other characteristic protected under applicable federal, state, or local law.

7. Intellectual Property

Intellectual property refers to original creative works — like course materials, lesson plans, research, inventions, designs, or student projects — that are protected by applicable law and University policy. Ownership and permitted use of intellectual property are determined in accordance with [ES 1.01 Intellectual Property](#), applicable copyright law, and other college policies.

Your Right: You have the right to expect that materials presented in your courses are used in accordance with **copyright law** and college policies. Your own creative work will be respected and will not be shared, published, or used without appropriate authorization, except as permitted by law or college policy.

What is Copyright Law? *Copyright law refers to the legal protections that grant creators certain rights to control the reproduction, distribution, display, performance, and creation of derivative works based on their original work.*

Your Responsibility: You are responsible for respecting the intellectual property rights of the University, faculty members, staff, and fellow students. You may not reproduce, distribute, publicly share, use for commercial purposes, or create **derivative works** from course materials or other protected works without appropriate authorization. Unauthorized use or distribution of copyrighted materials, including digital sharing, may result in action under [ES 1.01 Intellectual Property](#), [ES 2.11 Copyright Compliance](#), applicable college policies, and federal copyright law.

What are Derivative Works? *Derivative works are new materials based on or adapted from an existing original work, such as a translation, modification, adaptation, or other creation that incorporates elements of the original work.*

03. Title IX

The Title IX procedures and Statewide Operating Standard [HR 2.4.15 PROHIBITING SEXUAL MISCONDUCT AND SEX-BASED DISCRIMINATION](#) are subject to change. Please consult the most current version of HR 2.4.15 for updates.

What is Title IX? Title IX is a federal law that protects you from being treated unfairly because of your sex in any

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educational program or activity that receives money from the government.

Prohibiting Sexual Misconduct and Sex-Based Discrimination

We work to maintain a workplace and an educational environment where you are protected from **sexual misconduct** and **discrimination based on sex**. Texas State Technical College (TSTC) does not tolerate and expressly prohibits sexual misconduct. This includes sexual harassment, sexual assault, sexual exploitation, stalking, and dating or domestic violence. No person will be excluded from participation in, denied the benefits of, or be subjected to discrimination under any education program or activity on the basis of sex.

What is Sexual Misconduct? Sexual misconduct is a term for various types of non-consensual sexual behavior, including harassment and assault, that interfere with your right to a safe learning environment.

What is Sex-Based Discrimination? Sex-based discrimination happens when someone is treated differently or unfairly because of their sex or gender.

These rules apply to all members of the TSTC organization, including you, our employees, and any visitors. This practice and procedure includes incidents occurring on and off campus that would cause a **substantial disruption** in the learning environment. The procedures also include complaints filed by visitors on TSTC property. If someone is found responsible for these actions, they face **disciplinary action**. This can include suspension or expulsion from the college for students, or separation of employment for staff.

What is a Substantial Disruption? A substantial disruption is an action that significantly interferes with the college's ability to operate or your ability to attend classes and participate in campus activities.

What is Disciplinary Action? Disciplinary action is the formal process we use to address violations of college rules.

Pertinent Information

[Title IX of the Education Amendments of 1972](#) protects you from discrimination based on sex in education programs or activities which receive federal financial assistance.

Title IX states, "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance."

What is Federal Financial Assistance? Federal financial assistance is funding provided by the government to support the college and its students.

The Title IX procedures and Statewide Operating Standard [HR 2.4.15 PROHIBITING SEXUAL MISCONDUCT AND SEX-BASED DISCRIMINATION](#) are subject to change. Please consult the most current version of HR 2.4.15 for updates.

Definitions

Bullying: Bullying is repeated and/or aggressive physical or mental behavior that is intimidating or controlling.

Complainant: The individual (which could be you) making the complaint of sexual misconduct or gender discrimination.

Consent: An agreement to engage in sexual conduct or activity. You give consent by explicitly saying "yes" or through active, willing participation by everyone involved. Sexual consent cannot be given by anyone who is underage, under the influence of alcohol or drugs, or otherwise mentally impaired or unable to give knowledgeable, informed consent.

Cyber Bullying: Repeated and/or aggressive written, graphic, or verbal harassment that is sent through any electronic or digital device.

Domestic Violence: Violent or aggressive behavior within the home. It typically involves the violent abuse of a spouse or partner.

Education Program or Activity: Any location, event, or circumstance where we have substantial control over both the respondent and the context in which the sexual harassment occurs.

Hazing: Acts related to the admission, initiation, or pledging of a formal or informal group that are likely to cause physical, psychological, or social harm.

Incapacitation: An individual lacking the ability or capacity to have a reasonable understanding of the situation they are in. This can be due to a lack of sleep, a disability, involuntary physical constraint, or the consumption of alcohol or drugs.

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Informal Resolution: An alternative to the grievance process—the formal procedure for investigating and resolving complaints. We may offer and facilitate this after a formal complaint is filed, as long as everyone involved gives voluntary, written consent.

Preponderance of the Evidence: This is the standard we use to decide a case. It means more likely than not that the evidence would lead a reasonable person to reach a conclusion.

Respondent: The individual against whom the complaint of sexual misconduct or sex-based discrimination is made.

Retaliation: Any action that adversely affects the employment or other institutional status of an individual (including discharging, demoting, suspending, threatening, harassing, or in any other manner discriminating against an employee in the terms and conditions of employment), that is taken by TSTC or one of its employees because an individual has, in good faith, made an allegation concerning the violation of a law, rule, policy, procedure, or improper act, or has cooperated in good faith with an investigation of such allegation.

Sex Based Discrimination: Discrimination based on sex. This includes discrimination based on pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions. Federal [Title IX](#) regulations also prohibit us from applying any rule related to your parental, family, or marital status that treats you differently based on your sex.

Sexual Misconduct: Sexual misconduct is a broad term that covers several types of harmful behavior. Here is what each type means and how it applies to you:

- **Sexual Harassment:** Includes unwelcome, sex-based verbal or physical conduct that is severe, persistent, or pervasive enough to unreasonably interfere with your ability to participate in or benefit from TSTC's educational programs and activities. This is called a **hostile environment**. Sexual harassment can also take the form of **quid pro quo** (Latin for "this for that") — meaning someone in a position of power over you makes unwelcome sexual advances or requests in exchange for an educational or employment benefit.
 - **What is a Hostile Environment?** *A hostile environment is one where the behavior around you is so severe or widespread that it interferes with your ability to learn, work, or participate in campus life.*
 - **What is Quid Pro Quo?** *Quid pro quo harassment happens when someone uses their authority over you — like a grade or a job — to pressure you into sexual conduct.*
- **Nonconsensual Sexual Contact (or Attempts):** This is any intentional sexual touching, however slight, using an object or body part, directed at another person without their consent or done by force.
- **Nonconsensual Intercourse (or Attempts):** This is any form of sexual intercourse — vaginal, oral, or anal — that occurs without consent. This is also referred to as sexual assault or rape.
- **Sexual Exploitation:** When someone takes advantage of another person in a sexual way for personal gain. Examples include, but are not limited to:
 - Invasion of sexual privacy
 - Prostituting another person
 - Recording sexual activity without consent
 - Going beyond the boundaries of consent
 - **Voyeurism:** Watching someone in a private situation without their knowledge or consent
 - Knowingly transmitting an STI or HIV to another person
 - Exposing one's genitals in nonconsensual circumstances or pressuring another person to expose their genitals

Stalking: Repetitive behavior directed at a specific person or persons that would cause a reasonable person to fear for their own safety or the safety of others, or that causes substantial emotional distress. This includes calling, texting, emailing, following, or otherwise communicating with someone who does not want that contact.

Supportive Measures: If you are involved in a Title IX matter — whether as a complainant or a respondent — you may be offered supportive measures. These are individualized services provided to you at **no cost**, before or after a formal complaint is filed, or even when no formal complaint has been filed at all. These measures are non-disciplinary and non-punitive, meaning they are not a form of punishment. Supportive measures may include counseling, extensions of deadlines or other course-related adjustments, modifications of work or class schedules, campus escort services, mutual restrictions on contact between the parties, changes in work or housing locations, leaves of absence, increased security and monitoring of certain areas of the campus, and other similar measures.

These definitions are governed by Statewide Operating Standard [HR 2.4.15](#).

Complaints Involving Sexual Assault

If you have been sexually assaulted on a TSTC campus or at an official off-campus TSTC function, we strongly encourage you to report the offense right away to the TSTC Police Department, campus security, or your local law enforcement agency. If a report of suspected abuse/molestation involves a minor (e.g., a dual-credit student, an on-campus minor per GA 1.6.7, or a resident under 18), Texas Family Code §261.101 imposes a mandatory reporting obligation on any person (including TSTC employees) to report suspected child abuse to the Texas Department of Family and Protective Services or law enforcement within 48 hours. **Preserving evidence is important.** If you are a victim; do not bathe or shower, do not brush your teeth or use mouthwash, and do not throw away or wash the clothes you were wearing at the time of the assault.

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You will at all times have access to campus support throughout the reporting process. To the extent permitted by law, you may also request **anonymity** — meaning your identity can be kept confidential. For full details on how your privacy is protected, see the "Confidentiality" section below.

What is Anonymity? *Anonymity means your name and identifying information are kept private and not shared without your permission.*

Procedures For Complaints Made By Students

If you believe you have been subjected to sexual misconduct or sex-based discrimination, report it to the designated [Student Title IX Coordinator](#). You can reach this office through any [Student Rights and Responsibilities](#) office on campus.

What is a Title IX Coordinator? *A Title IX Coordinator is the college official responsible for overseeing all reports and complaints related to sexual misconduct and sex-based discrimination.*

Any TSTC employee, including your resident or community assistants, who receives a report or complaint from a student about sexual misconduct or sex-based discrimination must immediately notify and refer that student to the designated Student Title IX Coordinator and submit a report using the Sexual Misconduct and Sex-Based Discrimination form.

1. Your complaint can be made verbally or in writing using the Sexual Misconduct and Sex-Based Discrimination form. Once the complaint is received, the designated Student Title IX Coordinator will begin a thorough, prompt, and fair inquiry. If necessary, immediate **interim measures** may be put in place to protect your safety.

What are Interim Measures? These are temporary steps we take to keep everyone safe, and may include:

- **Emergency removal** — We can remove a student respondent entirely or partially from our educational programs or activities on an emergency basis. This happens when an individualized **safety and risk analysis** determines that an immediate threat to the physical health or safety of any student or other individual justifies removal. This risk analysis is performed by the Title IX Coordinator together with the CARE Team, using standard objective violence risk assessment procedures.

What is a Safety and Risk Analysis? *This is a specific assessment to see if someone poses an immediate threat.*

- **No contact orders** — A formal directive prohibiting one party from contacting the other.
- **Removal or reassignment from campus housing.**

All parties are expected to follow the terms of any interim measures. Violations will not be tolerated and will be addressed immediately. Students who violate these measures may face further disciplinary action, up to and including suspension or expulsion.

1. The Title IX Coordinator will follow the procedures outlined in the [TSTC Code of Conduct](#) under "Disciplinary Procedures." The only exception is the formal review process for both parties, which follows the steps outlined below under "Formal Review Process (for students only)." If the respondent is found responsible for the accusations, then the appropriate sanctions will be imposed. **Mediation** may be considered in some cases when it is agreed to by both parties, but mediation is never acceptable in incidents of sexual violence. A complainant or respondent who is determined, through the applicable disciplinary process, to have knowingly made a materially false statement in bad faith during a Title IX grievance process may be subject to disciplinary action under applicable college policy. A determination that a respondent is not responsible, or that a complaint cannot be substantiated, does not by itself establish that any party made a materially false statement or acted in bad faith.

What is Mediation? *Mediation is a voluntary, informal process agreed to by both parties, where a neutral third party helps both sides reach a resolution without a formal hearing.*

1. If the complaint involves the actions of a TSTC employee, the Student Title IX Coordinator will immediately notify the designated Employee Title IX Coordinator, who will initiate an investigation in accordance with the steps outlined in Operating Requirements No. 2 of Statewide Operating Standard [HR 2.4.15 Prohibiting Sexual Misconduct and Sex-Based Discrimination](#).
2. In all cases, you are entitled to a prompt, fair, and impartial process and resolution.
3. The Title IX Coordinator will maintain a record of each case for reporting purposes.

This record includes:

- the date of the alleged misconduct,
- the type of alleged misconduct,
- the result of the investigation,
- actions taken,
- whether a formal review occurred,
- the results of that review, and
- any other relevant information.

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All investigation documentation will be kept in the student's disciplinary records for the full duration of the records retention period.

Formal Complaint Process (for students only)

Either party may submit a written request for a formal complaint process to the appropriate Title IX Coordinator. After the coordinator has conducted the necessary interviews, they will arrange a review board — made up of three TSTC employees — to hold a live hearing.

1. We will convene the review board in a timely manner — usually within five business days, though some situations may take longer. Both parties will be notified in advance of the date, time, and location of the review, as well as the names of the panelists. Both parties have the right to object to any member of the review board. This protects the Title IX requirement that both parties receive a fair, impartial, and objective review by unbiased decision makers.
2. We will keep both parties informed throughout this process. No later than two business days before the review, both parties must submit a list of witnesses and all supporting documentation to the Title IX Coordinator. The review board's job is to assess the investigation details and determine whether the **preponderance of the evidence** supports a finding of responsibility, and to make recommendations for sanctions if appropriate.

What is Preponderance of the Evidence? *This means the majority of the evidence would lead a reasonable person to conclude that the alleged conduct occurred.*

1. These proceedings are not a legal or judicial hearing. The review board uses the "preponderance of the evidence" standard to reach a decision, which is made by majority vote.
2. Both parties have the right to an assigned advisor. If you choose to bring an attorney to the review, you must give TSTC at least two business days' notice so we can also have an attorney present. Any attorney present serves in an advisory role only — they may not ask questions, present evidence, or make arguments before the review board. Bringing an attorney may cause a delay in the process. If an attorney does not follow these requirements, the review board may remove them.
3. All reviews are closed to the public.

Mandatory Dismissal

In some cases, we are required to dismiss a formal complaint. This happens when:

- The allegation does not describe conduct that would qualify as Title IX Sexual Misconduct,
- The alleged misconduct did not occur within our educational program or activity, or
- The alleged misconduct did not occur against a person in the United States.

What is a Mandatory Dismissal? *A mandatory dismissal means the college is required by law to close the complaint without a full investigation because it falls outside the scope of Title IX.*

Retaliation

We do not condone any form of **retaliation** by either party. If retaliation occurs, we will take immediate action to address it, and additional disciplinary action may follow — up to and including separation from the college.

What is Retaliation? *Retaliation is any negative action taken against someone because they reported misconduct or participated in an investigation. This includes, but is not limited to, intimidation, discrimination, coercion, or threats directed at either party.*

Confidentiality

Throughout every phase of these procedures, we protect the privacy of everyone involved and keep all information confidential to the extent permitted by law. We strongly support your interest in **confidentiality** when your complaint involves sexual misconduct. We will honor that request except when the safety of the campus community is at risk or when doing so would create a discriminatory environment for others.

What is Confidentiality? *Confidentiality means that your personal information and the details of your case are not shared beyond those who need to know in order to resolve the complaint.*

Confidential resources, such as licensed counselors and healthcare providers, are available to you. When acting in their official roles, these professionals are not obligated to disclose your personal information to the

Title IX Coordinator without your explicit permission.

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What is a Responsible Employee? A responsible employee is any college employee who is required by law and college policy to report disclosures of sexual misconduct — they cannot keep that information confidential.

In cases involving minors, state mandatory reporting laws require disclosure regardless of a confidentiality request. We will take steps to ensure your protection in those situations.

We will provide written notification to students and employees about their rights and options in cases involving dating violence, domestic violence, sexual assault or misconduct, or stalking — whether the offense occurred on or off campus. This written notification includes information on reporting options and the right to decline law enforcement involvement, available on- and off-campus services (counseling, health, mental health, victim advocacy, legal assistance, and financial aid), and the availability of changes to academic, living, transportation, and working situations.

For more information, consult the most current version of [SOS HR 2.4.15](#).

Rights of the Complainant and Respondent

We are committed to providing accessible, prompt, thorough, and fair methods of investigation and resolution of incidents reported under this policy to all of our students. To this end, whether you are the complainant or the respondent, you are entitled to the following rights throughout the investigation and review processes:

1. We are committed to providing you with accessible, prompt, thorough, and fair methods of investigation and resolution for any incident reported under this policy. Whether you are the complainant (the person making the report) or the respondent (the person the report is made against), you are entitled to the following rights throughout the investigation and review processes:
2. To be treated with dignity by everyone involved in the investigation and disciplinary process.
3. To a prompt and thorough investigation of the allegations.
4. To a fair hearing.
5. To equal access to information, evidence, and college resources — including information about counseling services.
6. To access the policies that apply to your case.
7. To choose whether to participate or decline to participate in the investigation or review process.
8. To have an advisor of your choosing present at all meetings and reviews.
9. To written notice of all meetings and formal reviews, including the time and place. Written notification means delivery to your official TSTC email account. You are responsible for the contents of messages sent to that account and for keeping your email address and phone number current with the college.
10. To present information and witnesses on your behalf during the investigation and review process. The Title IX Coordinator or their designee determines the relevance of witnesses during the investigation phase. The Title IX Review Board Chair makes that determination during the formal review.
11. To choose not to present information against yourself. You are never required to speak at any meeting, conference, or hearing. No negative conclusion will be drawn if you choose not to speak.
12. To hear and respond to all information presented against you.
13. To one written copy of the investigation report stating the allegations, information gathered from all parties and witnesses, and the Title IX coordinator's determination as to whether the information gathered could constitute a violation of this policy.
14. To adequate time to review the investigation report and any evidence that will be presented to the Title IX review board.
15. To notice of the charges — including what prohibited conduct is at issue — that will be presented to the Title IX Review Board, and to reasonable notice of the date and time of the formal review.
16. To have any unrelated past behavior excluded from the investigation and disciplinary process, as determined by the Title IX coordinator.
17. To submit written materials to the Title IX Review Board that are relevant to the report. This may include a written impact statement from the complainant and a statement of **mitigating factors** from the respondent.
What is a Mitigating Factor? A mitigating factor is a circumstance or detail that may reduce the severity of a sanction, even if it does not excuse the conduct.
18. To be free from intimidation, harassment, bullying, or any other form of retaliation throughout the investigation and disciplinary process.
19. To written notification of the results of the review board or other case resolution, including any sanctions imposed.
20. To be informed of your right to appeal and of the process for doing so.
21. To written notification of the outcome of the review board's finding related to preponderance of evidence and sanctions imposed.
22. To privacy throughout the investigation and disciplinary process with respect to campus and other media, and from all uninvolved parties.
23. To challenge the investigator, Title IX Coordinator, Title IX Review Board, or any other staff or administrator involved in the investigation, hearing, or appeal process if you believe there is a **conflict of interest**.
What is a Conflict of Interest? A conflict of interest exists when a person involved in your case has a personal or professional relationship that could affect their ability to be fair and impartial.
24. To understand that information collected during this process may be subpoenaed — meaning legally requested — in criminal or civil proceedings.
25. To have reasonable steps taken to prevent any unnecessary or unwanted contact with the other party during the investigation and hearing process. Additionally, as the complainant, you have the right to report the incident at any time.

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For more information, consult the most current version of SOS HR 2.4.15.

Request for Review of Title IX Review Board Decision

Both parties have the right to request a review of the Title IX Review Board's decision. This includes the board's determination of responsibility and any dismissal of a formal complaint or the allegations within it. Requests are submitted to the Student Deputy Title IX Coordinator for determination.

What is a Determination of Responsibility? *This is the review board's official conclusion about whether the respondent is responsible for the alleged conduct.*

A review must be based on one or more of the following grounds:

1. A procedural irregularity occurred;
2. New evidence or information exists that could affect the outcome of the matter;
3. The Title IX Coordinator, investigator, or Title IX Review Board had a conflict of interest or bias — for or against complainants or respondents generally, or against you specifically — that affected the outcome of the matter.
4. The sanction imposed is disproportionate to the violation.

Your review request must be submitted in writing to the Title IX Coordinator within three business days of the decision.

Reduce the Risk of Being Sexually Assaulted

1. Know your limits. You have the right to say "no" to any unwanted sexual contact. If you are unsure of what you want, ask your partner to respect your feelings.
2. Communicate clearly. Do not assume your partner will automatically know how you feel or will eventually "get the message." It is just as important to give clear consent to activities you want to engage in as it is to say "no" to those you do not. Avoid mixed messages — back up your words with a firm voice and clear body language. You can give consent verbally by saying "yes," or through your active participation.
3. Be direct about your limits upfront. Some people mistakenly assume that drinking, dressing a certain way, or going to someone's room signals a willingness to have sex. Be clear about your boundaries before those situations arise.
4. Trust your instincts. If you feel uncomfortable or think you might be at risk, leave the situation immediately and go somewhere safe.
5. Know your rights. If you feel pressured or coerced into sexual activity, you have the right to say so and to leave. If you are worried about the other person's reaction, it is okay to make an excuse to leave or to create an opportunity to get help.
6. Look out for each other. Attend large parties with people you trust. Agree to watch out for one another, leave together as a group, and avoid leaving with people you do not know well.

Services for Victims

We will provide you with written notification about community-related services available to victims of sexual misconduct, dating violence, domestic violence, or stalking. These services include victim advocacy, legal assistance, visa and immigration assistance, student financial aid, and other resources — both on campus and in the community. The Title IX Coordinator will also notify you of your options for changing your academic schedule, living arrangements, transportation, or work situation, along with information on available protective measures. You will receive this information regardless of whether you choose to report the incident to campus police or local law enforcement. To request any of these services or notifications, contact your Title IX Coordinator.

To report an incident of sexual misconduct or sex-based discrimination, or to obtain a list of available local, state, or federal victim services, please contact your local Title IX representative.

Student Title IX Representatives:

Janette Gomez

Sr. Student Development Specialist

janette.gomez@tstc.edu

956-364-4383

Griselda Sanchez

Student Development Specialist

griselda.sanchez@tstc.edu

325-235-7311

Employee Title IX Representatives:

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Cara Noyes

Human Resources Partner

cara.noyes@tstc.edu

254-867-4818

Emily Flores

Human Resource Specialist

emily.flores@tstc.edu

956-364-4040

Student Title IX Deputy Coordinator:

Forrest McMillan

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325-734-3600

Employee Title IX Deputy Coordinator:

Amanda Oswalt

Human Resources Director

amanda.oswalt@tstc.edu

254-867-4825

Title IX Coordinator for Students, Employees and Visitors:

Edda Urrea

Sr. Director of Human Resources

edda.urrea@tstc.edu

956-364-4041

State/National Resources

Rape, Abuse, and Incest National Network-RAINN

1-800-656-HOPE (4763) 24 hr. Hotline

Texas Crime Victims' Clearinghouse

800-848-4284

www.tdcj.texas.gov/ks_victim.html

Crime Victims' Compensation

800-983-9933

www.texasattorneygeneral.gov/cvs/crime-victims-compensation

Crime Victim's Institute

936-294-3100

www.crimevictimsinstitute.org

IMAlive

www.imalive.org

National Suicide Prevention Lifeline

800-273-TALK (8255)

www.suicidepreventionlifeline.org

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Veterans Crisis Line
800-273-8255 (when connected, press 1)
www.veteranscrisisline.net

National Domestic Violence Hotline
800-799-7233
www.thehotline.org

National Sexual Violence Resource Center
877-739-3895
www.nsvrc.org

TAASA – Texas Association Against Sexual Assault
512-474-7190
taasa.org

taasaconference.org

RAINN – Rape Abuse and Incest National Network
800-656-4673
www.rainn.org

Office for Civil Rights
800-421-3481 or 214-661-9600 (Dallas)
OCR.Dallas@ed.gov

Office for Violence Against Women
202-307-6026
www.justice.gov/ovw

Noah Project – Victim Advocate
800-444-3551
noahproject.org

Women's Protective Services
800-736-6491
www.wpslubbock.org

Local Resources **Fort Bend County**

TSTC Advocacy Resource Center
Brazos Center, Room 113
26706 SW Freeway
Rosenberg, TX 77471
346-239-3233

Fort Bend Women's Center
281-344-5750
24-HR Support Line: 281-342-HELP (4357)

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<http://fortbendwomenscenter.org>

Houston Area Women's Center

1010 Waugh Drive

Houston, TX 77019

713-528-2121

Domestic Violence Support Line: 713-528-2121

Sexual Assault Support Line: 713-528-7273

hawc.org

LGBTQ-Houston

401 Branard Street

Houston, TX 77006

713-529-3211

montrosecenter.org

Katy Christian Ministries

5504 First Street

Katy, TX 77493

281-391-4504

Domestic Abuse Hotline: 281-391-HELP (4357)

Sexual Abuse Hotline: 281-693-RAPE (7273)

ktcm.org/crisiscenter

Harlingen

TSTC Police

956-364-4220

After Hours and Weekends: 956-873-2677

Family Crisis Center - serving Harlingen

616 W. Taylor Ave.

Harlingen, Texas 78550

956-423-9304

Family Crisis Center - serving Raymondville

192 N. 3rd Street

Raymondville, Texas 78580

956-689-5150

Friendship of Women - serving Brownsville

95 E. Price Rd.

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Brownsville, Texas 78521

956-544-7412

TSTC Advocacy Resource Center

Student Center, Room 123

1902 N. Loop 499

Harlingen, Texas 78550

956-364-4520

TTY: 956-364-4526

www.tstc.edu/student_life/titleix

Marshall

Student Support Services

Admissions and Administration Building

Room 150

2650 East End Blvd. South

Marshall, Texas 75671

903-923-3301

TSTC Campus Security

903-923-3351

Good Shepherd Medical Center Marshall

903-927-6000

Marshall Rural Health Clinic

903-927-6140

Health Department

903-927-6607

HealthCare Express

903-938-4363

Access Family Health

903-927-2824

Marshall Internal Medicine

903-927-6800

CVS Pharmacy

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903-935-6661

Walgreens Pharmacy

903-923-0605

Matthewson Drug Co.

903-938-6741

Sabine Valley Regional MH

903-938-7725

New Braunfels

Shelters:

Kendall County Women's Shelter

Main Phone: 830-331-1001

Emergency After Hours: 800-495-8078

Atascosa Family Crisis Center

Main Phone: 830-281-2001

Emergency After Hours 830-569-2001

Crisis Center of Comal County

Phone: 830-620-4357; 800-434-8013

Advocacy:

SAPD Victims Advocacy Services

Phone: 210-207-2141

Family Justice Center

Phone: 210-208-6800

Family Violence Prevention Services

Phone: 210-930-3669

Surrounding Areas:

United Way 2-1-1

Child Abuse & Neglect:

Statewide Hotline 800-252-5400

Guadalupe Valley Family Violence Shelter

Phone: 830-372-5971; 800-834-5970

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Law Enforcement:

Comal County Sheriff's Office

3005 W. San Antonio St.

New Braunfels, Texas 78130

Non-Emergency 830-620-3400

Atascosa County Sheriff's Office

1108 Campbell Ave

Jourdanton, TX 78026

Non-Emergency 830-769-3434

Bandera County Sheriff's Office

3360 State Hwy. 173 North P.O. Box 607

Bandera, TX 78003

Non-Emergency 830-796-3771

Guadalupe County Sheriff's Office

2617 N. Guadalupe

Seguin, Texas 78155

Non-Emergency 830-379-1224

Kendall County Sheriff's Office

6 Staudt St,

Boerne, TX 78006

Non-Emergency 830-249-9721

Kerr County Sheriff's Office

400 Clearwater Paseo

Kerrville, Texas 78028

Non-Emergency 830-896-1133

Wilson County Sheriff's Office

800 10th Street, Unit 4

Floresville, TX 78114

Non-Emergency 830-393-2535

North Texas

[Resource Directory](#) • [Ellis County, TX](#) • [CivicEngage](#)

Waco

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TSTC Police

3801 Campus Drive

Waco, TX 76705

254-867-3690

TSTC Advocacy Resource Center

Murray Watson Jr. Student Recreation Center

3801 Campus Dr.

Waco, TX 76705

254-867-3634

Family Abuse Center

www.familyabusecenter.org

254-772-4770

The Advocacy Center

www.advocacycntr.org

3312 Hillcrest Dr.

Waco, Texas 76708

254-752-7233 (Crisis Line)

254-752-9330 (Office)

Scott & White Waco Hillcrest Baptist Medical Center

100 Hillcrest Medical Blvd.

Waco, Texas 76712

254-202-2000

www.bswhealth.com

Ascension Providence Hospital

6901 Medical Pkwy.

Waco, Texas 76712

254-751-4000

healthcare.ascension.org/Locations/Texas/TXWAC/Waco-Ascension-Providence

West Texas: Abilene, Breckenridge, Brownwood and Sweetwater

TSTC Advocacy Resource Center

300 Homer K. Taylor Drive

Sweetwater, TX 79556

325-236-8292

Abilene Area Resources:

Abilene Police Department

911

www.abilenepolice.org

Hendrick Medical Center South

6250 US-83

Abilene, TX 79606

325-428-1000

hendrickhealth.org/locations/hendrick-medical-center-south

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Hendrick Health
325-670-2000
hendrickhealth.org

Regional Victim Crisis Center (24 hours)
325-677-7895
<http://regionalvictimcrisiscenter.org>

Noah Project, Family Violence (24 hours)
325-676-7107
<http://noahproject.org>

MHMR – Betty Hardwick Center (24 hours)
800-758-3344
bettyhardwick.org

Love and Care Ministries
325-670-0246
www.lcmin.com

Abilene Hope Haven
325-677-4673
abilenehopehaven.org

The Salvation Army
325-677-1408
salvationarmytexas.org/abilene

Taylor County District Attorney – Protective Order Unit:
325-674-1261
www.taylorcountytexas.org/index.aspx?nid=125

Legal Aid of Northwest Texas (Abilene)
325-677-8591 or 800.933.8591
www.lanwt.org

Breckenridge Area Resources:

Breckenridge Police Department

911 or 254-559-2211

<https://breckenridgetx.gov/police>

Stephens County Sheriff's Office

911 or 254-559-2481

www.co.stephens.tx.us/default.aspx?Stephens_County/Sheriff

Stephens Memorial Hospital

254-559-2241

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www.smhtx.com

Crime Victim Assistance Center

254-629-3223 (Eastland)

888-686-3222 (24 hr. hotline)

eastlandcrisis.org/crime-victim-assistance-center.html

MHMR – Betty Hardwick Center (24 hrs)

800-758-3344

1612 West Walker Street

Breckenridge, TX 76424

bettyhardwick.org

Brownwood Area Resources:

The Ark (Domestic Violence & Sexual Assault Shelter)

325-643-2699 or 888-313-2699 (24/7)

www.arkshelter.org

Legal Aid of Northwest Texas (Brownwood)

325-646-8659

www.lanwt.org

Central Texas MHMR (Center for Life Resources)

325-646-9574

Crisis Hotline: 800-458-7788

cflr.us/ns

Heart of Texas Children's Advocacy Center

1305 Early Blvd.

Early, TX 76802

www.cactx.org/find-a-local-center/early-cac

The Brownwood Police Department

325-646-2525

www.ci.brownwood.tx.us/243/Police-Department

Hendrick Medical Center Brownwood

325-646-8541

hendrickhealth.org/locations/hendrick-medical-center-brownwood

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Sweetwater Area Resources:

Sweetwater Police Department

325-236-6686

sweetwatertx.gov/departments/police-department

Nolan County Sheriff's Office

325-235-5471

www.nolanso.com

Rolling Plains Memorial Hospital

325-235-1701

www.rpmh.net

Nolan County - MHMR

325-236-6619

www.wtcmhmr.org/poc/view_doc.php?type=doc&id=10429

Nolan County - District Attorney

325-235-8639

www.co.nolan.tx.us/default.aspx?Nolan_County/District.Attorney

Nolan County - Victim Services Coordinator

325-235-2338

www.co.nolan.tx.us

Hope Unlimited

325-235-1910

<http://hopehousesweetwater.com>

Family and Individual Counseling- Carol Frye, LPC

325-235-9896

Children's Advocacy Centers of West Texas, Inc.

325-235-1818

www.cactx.org/find-a-local-center/west-texas-childrens-advocacy-center

Williamson County

East Williamson County Higher Education Center

1600 Innovation Blvd (CR 108)

Hutto, TX 78634

Williamson County Crisis Center

Hotline: 1-800-460-7233

Toll Free: 1-800-460-7233

Business: 512-255-1212

Hope Alliance

hopealliancetx.org

1-800-460-7233

Bystander Intervention

Bystander Intervention is a prevention strategy for various types of violence — including bullying, sexual harassment, sexual assault, and intimate partner violence. A bystander is anyone who witnesses a situation that could become harmful. Intervening means stepping in to interrupt that situation, including stopping actions or comments that promote sexual violence.

We encourage every member of our community to speak up when they see something that does not feel right or a potentially harmful situation.

Five Steps to Accountability

1. Notice the event.
2. Recognize it as a risky situation.
3. Take responsibility for helping.
4. Build the skills needed to intervene.
5. Take Action!

Intervening in Any Situation

- Gather details about what is happening before you act.
- Ask other bystanders or friends for help — you do not have to act alone.
- Approach the situation with sensitivity and understanding.
- Intervene early and in a way that keeps everyone safe.
- Think through your options before acting.
- Do not hesitate to call for help. You can contact resident or community assistants, TSTC Police, or local police at 911.

Nonemergency Intervention

- Do not make assumptions about the people involved or the situation.
- Stay alert for warning signs that something is wrong or potential red flags.
- Set a clear goal or plan before you step in.
- In conversations, keep the focus on mutual respect.

Emergency Intervention

- Work to keep everyone calm.
- Know your exit options before you need them.
- Understand that situations can escalate quickly — be ready to adapt.
- Be clear and direct when asking for help.
- Keep yourself and others safe at all times.
- Tell everyone involved that you are committed to helping them.
- Encourage decisions that reflect your values and the well-being of others.

National Bystander Intervention Resources

A CALL TO MEN

www.acalltomen.org

hollaback!

www.ihollaback.org

Take Action

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www.ihollaback.org/take-action

Know Your IX

www.knowyourix.org

Love is Respect

www.loveisrespect.org

Support a Friend

www.loveisrespect.org/supporting-others/support-a-friend-or-roommate

National Domestic Violence Hotline

www.thehotline.org

Help for Friends and Family

www.thehotline.org/support-others/ways-to-support

Legal Assistance: **Abilene**

Legal Aid of NorthWest Texas

500 Chestnut, Ste. 901

Abilene, Texas 79602

325-677-8591 or 800-933-8591

www.lanwt.org

Breckenridge

Legal Aid of NorthWest Texas

500 Chestnut, Ste. 901

Abilene, Texas 79602

325-677-8591 or 800-933-8591

www.lanwt.org

Brownwood

Legal Aid of NorthWest Texas

300 N. Fisk Ave.

Brownwood, Texas 76801

325-646-8659

www.lanwt.org

Fort Bend County

Lone State Legal Aid

500 Jefferson Street, 17th Floor

Houston, Texas 77002

713-652-0077

800-733-8394

www.lonestarlegal.org

Harlingen

Texas Rio Grande Legal Aid, Inc.

308 East Harrison Ave.

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Harlingen, Texas 78550

956-364-3800

800-369-2651

www.trla.org

Marshall

Lone State Legal Aid

140 East Tyler, Suite 150

Longview, Texas 75601

903-758-9123 or 800-866-0821

www.lonestarlegal.org

North Texas

Legal Aid of NorthWest Texas

110 E. Main Street, Ste. 200

Waxahachie, Texas 75165

866-614-3344 or 972-923-3344

www.lanwt.org

Sweetwater

Legal Aid of NorthWest Texas

500 Chestnut, Ste. 901

Abilene, Texas 79602

325-677-8591 or 800-933-8591

www.lanwt.org

Waco

Lone Star Legal Aid

900 Austin Ave. 7th Floor

Waco, Texas 76701

254-756-7944 or 800-299-5596

www.lonestarlegal.org

Williamson County

Texas Rio Grande Legal Aid

4920 N. I-35

Austin, Texas 78751

512-374-2700

800-369-9270

www.trla.org

Student Financial Aid Assistance:

Jackie Adler, Executive Director of Financial Aid

254-867-3620

jackie.adler@tstc.edu

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Student Records Assistance:

Paula Arredondo, Executive Registrar

956-364-4322

paula.arredondo@tstc.edu

TSTC has an ongoing comprehensive prevention and awareness campaign and can be found on the TSTC website under [Title IX](#).

04. Code of Student Conduct

Purpose

At Texas State Technical College, we want to encourage fair and efficient solutions for any problems that might arise during your time with us. As a responsible member of our college community, you and any organizations or clubs you join are expected to maintain the highest level of academic and social conduct. You are responsible for knowing our policies and standards. [The Code of Student Conduct](#) — which refers to the standards of conduct and procedures we use to provide a full and fair review of alleged misconduct — is reviewed every academic year. However, it is a living document that we may modify at any time to comply with federal, state, local laws, or international (where applicable) law.

For further information than what is included in this handbook section please refer to our Statewide Operating Procedures [ES 3.23 Student Rights and Responsibilities](#).

Definitions

To help you understand our processes, here are definitions for terms we use throughout this section:

- **Board of Regents:** This is the governing body of TSTC. Members are appointed by the Governor of Texas and officially approved by the Texas Senate.
- **Code of Student Conduct, The:** The set of standards and procedures used to give you a fair chance to review any claims of **misconduct**. established to provide you with a full and fair opportunity for review of alleged misconduct.
- **College, The:** Refers to Texas State Technical College.
- **College Premises:** This includes all buildings, facilities, land, and other property that we own, use, lease, or control.
- **Complaint:** A statement of facts that describes how a rule or policy might have been broken.
- **Conduct Officer:** A college official who is authorized to investigate possible rule violations and carry out the procedures and **sanctions** described here.
- **Disciplinary Conference:** A formal conversation between you and a college official to review alleged violations. This is your opportunity to share your side of the story, respond directly, and present relevant information, including witnesses and documents.
- **Drug Paraphernalia:** Any equipment, product, or material used for making, using, or concealing drugs, regardless of what the item was originally intended for when it was made.
- **Established Student Relationship:** This relationship begins when you apply for admission and continues for as long as you are enrolled, maintain an association with us, or have any disciplinary matter or sanction still pending — even if you graduate, withdraw, or take a break between semesters.
- **Misconduct:** Behavior that breaks the rules or is improper.
- **Notice of Complaint:** The first document we send you that explains which rules may have been violated.
- **Review:** A request you make if you disagree with a conduct officer's decision or penalty and want the Statewide Review Board to look at it again. See the "Review Process" section below for more information.
- **Review Administrator:** The individual assigned to collect information, schedule meetings, and keep everyone connected during the review process.
- **Pendency:** Refers to the time while a legal case or process is still waiting to be finished.
- **Preponderance of Evidence:** This standard, commonly known as the "51% rule," is used to determine the truth of a fact or event. It means that, based on the available information, the majority of the evidence would lead a reasonable person to conclude that the fact or event is more likely true than not.
- **Residential Facilities:** Housing buildings operating by the college or for the college for you (the students) to live in.
- **Sanction:** A specific consequence or penalty given if a rule is broken.
- **Student:** Anyone who has established a relationship with the college for the purpose of taking classes. A person enrolled at the College or a person accepted for admission or readmission to TSTC.
- **Statewide Review Board (Committee):** This group meets if you request it to evaluate a decision or penalty.
- **Working Day:** Any Monday through Friday when the college is open and not on holiday.

Application

Here is a closer look at what the [Student Code of Conduct](#) means for you and how it applies to campus life.

- We use the code to provide an educational and **non-adversarial** process to solve student conduct issues. It is not a legal or court process.

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What does Non-adversarial mean? *Non-adversarial means the process is not a battle between two sides like a courtroom; instead, it is a way to learn and solve problems together.*

- We make sure the code is reliable, fair, and works well for everyone.
- If you have a student relationship with us, you must follow the code.
- The code covers all parts of campus life. This includes your time in class, on college property, in housing, and at off-campus events we sponsor. It can also apply to things that happen off-campus.
- We use the **preponderance of evidence** standard to make decisions.
- The conduct officer or a designee at your local campus will maintain your disciplinary records in accordance with our records and retention policy.

For more information on our records and retention policy please see the Family Educational Rights and Privacy Act (FERPA) section of this handbook.

- Our disciplinary process will continue even if there are related criminal or civil proceedings. We may not reconsider our decision even if related criminal charges are dismissed or otherwise resolved. See the "Review Process" section below for sanctions eligible to undergo review and instructions for initiating the review process..
- We expect student clubs and organizations to act in a way that fits our role as a school. Clubs must follow all laws and our policies, including the code, both on and off campus.

Prohibited Conduct

Our Conduct Officer can start a disciplinary process if you break the rules in the [Student Code of Conduct](#). While we have listed here specific examples of behavior that is not allowed, please remember that other actions not listed here could also lead to disciplinary steps.

1. Acts Violating the [Statewide Operating Standards \(SOS\)](#)

We expect you to follow all Statewide Operating Standards and college policies. Breaking these rules is a violation of the code.

2. Acts of Dishonesty

We value honesty in our community. You are prohibited from:

- Intentionally giving false or misleading information to the college or any of our staff.
- Forging, changing, or misusing any college document or ID card.
- Intentionally interfering with any election process on campus.

3. Acts Affecting the College Community

To keep our campus safe and productive, you must avoid:

- Disruptive behavior or activities. This includes acts defined in the [Texas Education Code](#).
- Failing to follow a reasonable instruction from a college employee. This includes instructions from your Resident Assistants (RAs) or Community Assistants.
- Ignoring an official summons or failing to identify yourself when a college representative asks.
- Breaking rules related to living on campus, your housing contract, or vehicle regulations.
- Gambling in any form.
- Failing to pay what you owe the college or meet your contractual agreements.
- Using obscene, lewd, or vulgar language or displays, whether in person or online.
- Violating the TSTC Pet Policy.

4. Acts Affecting Property or Service

You must respect the property of others and the college. Prohibited acts include:

- Stealing or trying to steal property or services.
- Having property that you know is stolen or lost.
- Damaging or destroying college property or things belonging to others.
- Having or using keys, access cards, or codes to college property without permission.
- Entering or using college buildings, equipment, or resources without authorization.

5. Acts Affecting Computing Resources or Technology

Our technology is for your education. If you are using an **information resource** owned by TSTC, or a personal device connected to the TSTC network, you are prohibited from:

- Accessing or misusing college computers, systems, or data without permission.
- Doing anything that stops our computers or networks from working correctly.
- Using someone else's ID, password, or login information.
- Sharing copyrighted materials (like movies or music) electronically without permission.
- Starting or helping with attacks on our systems or outside networks.
- Using college computers to look at lewd or pornographic material.
- Moving college programs or data to another person or computer without written permission.
- Using our computer resources to make money for yourself.

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What is an Information Resource? An information resource refers to the data, hardware, software, and networks used to process, store, and transmit information.

6. Acts Affecting Health, Safety or Welfare

Your safety and the safety of everyone around you is something we take seriously. The following behaviors are prohibited and can result in disciplinary action:

- Engaging in physical or verbal abuse, domestic violence, threats, intimidation, harassment, bullying, coercion, stalking (in person or online), or any other behavior that puts someone's health, safety, or welfare at risk.
- Possessing, using, selling, or distributing any illicit drug, narcotic, **controlled substance**, or drug paraphernalia — in any amount, usable or not.

What is a controlled substance? A controlled substance is any drug or chemical whose manufacture, possession, or use is regulated by the government. This includes synthetic drugs and any prescription medication that was not prescribed to you.

- Public intoxication or possessing, using, or distributing alcohol on campus.
- Being under the influence of alcohol, an illicit drug, narcotic, synthetic drug, or controlled substance while on campus or at a college-sponsored event.
- Providing alcohol to anyone under the legal drinking age or to any individual in violation of state, federal, or local law.
- Participating in **hazing** in any form.

What is hazing? Hazing, as defined by the Texas Education Code, is any act that could cause physical, mental, or emotional harm to another person, or that is humiliating or degrading. This includes engaging in, encouraging, directing, or voluntarily going along with hazing behavior. [Failure to report hazing is a violation of Texas state law](#)

- Engaging in gender discrimination, sexual misconduct, abuse, assault, or harassment of any kind. For more information on what constitutes these actions please see the Title IX section of this handbook.
- Using speech — spoken or written — that is meant to incite unlawful action or intimidate another person.
- Possessing or using a **dangerous weapon** on campus.

What is a dangerous weapon? A dangerous weapon is any object capable of causing physical harm. This includes, but is not limited to: unlicensed firearms, explosives, dangerous chemicals, illegal-length knives, fireworks, compressed air guns, pellet guns, stun guns, zip guns, tasers, BB guns, paintball guns, batons, and nunchucks.

Concealed Handguns carried by licensed holders are not permitted in DESIGNATED GUN EXCLUSION ZONES, see Statewide Operating Procedure [GA 1.6.10 CONCEALED HANDGUNS](#) for more information.

- Misusing or tampering with fire safety equipment or any other life safety equipment. You may not interfere with any college or public safety function.
- Reporting a false emergency or threat.
- Smoking inside any campus building or in designated nonsmoking areas. Smoking includes lighting or carrying a lit cigar, cigarette, pipe, or similar device — including e-cigarettes.

For more information on what constitutes smoking and tobacco use please see our Statewide Operating Procedure [HR 2.4.13 SMOKING AND TOBACCO USE](#)

- Violating any safety and wellness guidelines set by TSTC, the [Centers for Disease Control and Prevention \(CDC\)](#) and the [Occupational Safety and Health Administration \(OSHA\)](#).

A Note About Parent and Guardian Notification

Our Office of Student Rights and Responsibilities may contact your parents, guardians, or another responsible party if there is a serious safety concern. Under federal law, we are permitted to notify parents or guardians if you are under 21 years old — regardless of whether you are considered a dependent — and you are found responsible for violating our alcohol or drug policy. The decision to notify your parents or guardians is made by the Conduct Officer if he/she feels there is a concern they should be made aware of.

7. Acts Violating Law

You are expected to follow all laws — on campus and off. The following behaviors violate the code regardless of whether criminal charges are filed or a conviction occurs:

- Engaging in any conduct that is a criminal offense under federal, state, or local law — whether the incident happens on or off campus.
- Disturbing the peace or encouraging, helping, or pressuring someone else to do so.
- Disorderly conduct as defined by state law. This includes, but is not limited to, physical or verbal abuse, injuring another person, indecent displays or language, nonconsensual sexual contact or assault, or disrespecting the rights of others.

8. Facilitating Acts of Misconduct

You are responsible not just for your own actions, but for the role you play in the actions of others. The following are violations of the code:

- Planning or helping to carry out an act of misconduct.
- Being present while misconduct is happening, encouraging it, or failing to report it to the appropriate college officials.

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9. Acts Interfering with the Disciplinary Process

Our disciplinary process only works when everyone participates honestly. The following behaviors are violations of the code:

- Failing to schedule or attend a conference with the Conduct Officer within the required time.
- Failing to comply with any sanction — that is, any penalty or required action — assigned to you under the code.
- Giving false or misleading information at any point during the disciplinary process.
- Filing a complaint you know to be false.
- Trying to discourage someone from participating in or using the disciplinary process.
- Harassing, intimidating, coercing, bribing, or retaliating against a college official or anyone involved in the disciplinary process.

10. Violations of Academic Integrity

Academic integrity means doing your own work and being honest about it. Violations include cheating, plagiarism, collusion, and falsifying academic records — as well as any attempt to commit these acts or gain an unfair advantage.

- **Cheating:** Activity that includes, but is not limited to:
 - Copying from another student's assignment, test, or academic work.
 - Having unauthorized materials — like notes or textbooks — during a test.
 - Working with or getting help from another student on an exam or assignment without your instructor's permission.
 - Using, buying, selling, stealing, or sharing any part of a test, answer key, homework solution, or computer program before it has been officially given.
 - Taking a test for someone else or letting someone else take a test for you.
 - Paying, offering payment, or pressuring someone to get an unadministered test, answer key, homework solution, computer program, or information about any of these.
 - Falsifying lab reports or other academic work submitted for credit.
 - Taking, misplacing, or damaging college or another person's property when you know — or should know — it gives you an unfair academic advantage.
 - Ignoring instructions given by a person administering a test.
 - Discussing the contents of an exam with a student who has not yet taken it, without your instructor's express permission.
 - Sharing exam questions with others when your instructor has said the exam cannot leave the room or be returned to students.
 - Misrepresenting facts — including providing false grades or resumes — to gain an academic or financial benefit, or to harm another student academically or financially.
- **Collusion:** Working with another person on academic or lab work without your instructor's permission, or working with someone to commit any other violation of academic integrity.
- **Falsifying Academic Records:** Changing or misrepresenting any academic document. This includes altering grades, grade reports, test papers, registration materials, or any other official college form.
- **Plagiarism:** Taking someone else's work — by any means, including buying it or receiving it as a gift — and submitting it as your own for academic credit.

Disciplinary Procedures

The Conduct Officer, or someone they designate, is the primary person responsible for managing student discipline at TSTC. They review all reported and suspected violations of the code. If you believe a violation has occurred, you must submit a complaint to the Office of Student Rights and Responsibilities as soon as possible after the incident.

After completing an initial inquiry, the Conduct Officer or their designee may take one of the following steps:

- Dismiss the allegations as unfounded.
- Summon you for a conference to discuss the situation.
- After the conference, either dismiss the allegations or impose disciplinary sanctions.
- Take immediate interim action if your continued presence poses a danger or perceived threat to people or property, or disrupts the academic process.

See our Statewide Operating Procedures [ES 3.25 INVOLUNTARY STUDENT SEPARATION/WITHDRAWAL](#) for more information.

Notice of Complaint

When a complaint is filed, here is what you can expect:

- The Conduct Officer or their designee will send you a notice summarizing the alleged misconduct and rule violation. This notice may be delivered by mail, hand delivery, or through your official TSTC email address. It is your responsibility to keep a current mailing address on file with the college.
- You will be given a deadline to complete your conference. If you do not complete the conference by that date, you automatically waive — that is, give up — your right to a conference. The Conduct Officer will then make a decision based solely on the information already available. Even if you waive your right to a conference you still retain the

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right to request a review of the decision. Please refer to the “Review Process” section below.

Notice of Disciplinary Findings

If the preponderance of evidence — meaning it is more likely than not that a violation occurred — shows that you broke the code, the Conduct Officer or their designee will deliver a **Notice of Disciplinary Findings**.

This notice will explain the findings, any sanctions or restrictions placed on you, and your right to appeal, if applicable. It will also include information about the Review process, so you know your options if you disagree with the decision.

What is a Notice of Disciplinary Findings? *This is the official document that tells you the outcome of the disciplinary process.*

Sanctions for Misconduct

What is a sanction? *A sanction is a specific consequence assigned to you if you are found responsible for a violation. Sanctions range in severity depending on the nature of the violation.*

Below is a full list of possible sanctions.

- **Admonition:** A formal oral or written reprimand. This is the least severe sanction and serves as an official warning
- **Discretionary Sanctions:** Additional requirements assigned at the Conduct Officer's discretion, such as work assignments or service to the college.
- **Disciplinary Probation:** Probation means you have engaged in unacceptable behavior and will be monitored for a period of time to confirm your behavior has improved. Additional conditions — such as counseling or educational seminars — may be added during this period. Any further violations may result in more severe action.
- **Withholding Records:** Withholding of Grades, Official Transcript, Certificate of Completion, or Degree — We may place a hold on your academic records until the matter is resolved.
- **Suspension of Rights and Privileges:** We may restrict your access to certain activities or areas. This includes, but is not limited to, intramurals, recreation center use, extracurricular activities, running for student office, access to specific buildings, and housing or visitation privileges.
- **Administrative Withdrawal:** You may be removed from one or more of your enrolled courses. See our *Statewide Operating Procedures* [ES 3.25 INVOLUNTARY STUDENT SEPARATION/WITHDRAWAL](#) for more information.
- **Bar Against Readmission:** You may be barred from re-enrolling for a specific period of time.
- **Restitution:** You may be required to pay for or repair damages to property, or to compensate for misappropriated property. Restitution can be fulfilled through monetary payment or specific assigned duties.
- **Failing Grade or Other Academic Penalty:** You may receive a failing grade or another academic consequence related to the violation.
- **Denial of Degree:** We may deny the awarding of your degree. This action becomes a permanent part of your academic record.
- **Revocation of a Degree, Grade, or Certification:** A previously awarded degree, grade, or certification may be taken back. This action becomes a permanent part of your academic record.
- **No-Contact Order:** A college directive that prohibits any form of contact between specific individuals. Violating a No-Contact Order may result in suspension or permanent dismissal.
- **Suspension:** You will be removed from the college for a specified period of time. During suspension, you will be administratively withdrawn from TSTC, prohibited from entering college premises, and blocked from future registration until the Conduct Officer or their designee approves your return. Suspension becomes part of your permanent record but may be removed at your request once the sanction period is complete.
- **Expulsion:** Permanent removal from the college. You will be administratively withdrawn from TSTC and prohibited from entering college premises. Expulsion becomes a permanent part of your record.
- **Non-Academic Transcript Notation:** Under [Texas House Bill 449](#), all postsecondary institutions in Texas are required by law to include a disciplinary notation on your transcript — official or unofficial — stating that you have been expelled, and/or suspended (when the underlying violation involves sexual misconduct or sexual assault).
- Other penalties as seen fit by the appropriate administrator at the College.

Review Process

Not every disciplinary decision goes before the Statewide Review Board. This level of review is reserved only for the most severe disciplinary actions.

A review may be requested for the following reasons:

1. procedural error affecting the outcome,
2. new evidence not reasonably available at the original conference,
3. Disproportionate sanction (the punishment seems too severe for the violation),
4. bias in the decision-maker.

Which Sanctions Can Be Reviewed?

- Loss of Privileges
- Withholding or Revoking Grads and Degrees

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- Suspension or Expulsion

If your case involves Title IX — including any complaints related to sex or gender discrimination— it will follow the Sexual Misconduct Policy and the procedures of the Title IX Review Board instead.

Which Sanctions Are Not Reviewed?

These sanctions are not reviewed by the Statewide Review Board:

- Admonition
- Disciplinary Probation
- Restitution
- Discretionary Sanctions
- No-Contact Orders
- Administrative Withdrawal

If you would like a review of these sanctions you must pursue the grievance process under [Statewide Operating Procedure ES 3.24](#).

How to Request a Review

- You have three (3) working days from the date of your Notice of Disciplinary findings to submit a request for review to the Review Administrator.
- Within five (5) working days of your request, the Review Administrator will notify you of the time, date, and location of your review.
 - If delays happen due to extenuating circumstances, meaning unexpected situations outside of anyone's control, everyone involved will be notified and the reason will be documented.
- You are required to submit your list of witnesses and any supporting documents to the Review Administrator at least two (2) working days before the scheduled hearing.

What Happens at the Review?

First the Conduct Officer or their designee will present the college's case. Then you will present your case. Both sides have the opportunity to share testimony and evidence. The Statewide Review Board may question both parties and ask for additional information or clarification. All review proceedings are confidential and closed to the public.

Statewide Review Board (Committee)

Who Is on the Board?

The Committee has five (3) members from the campus community:

- One Chairperson, who also serves as the Review Administrator
- Three (3) faculty or staff members

The Chairperson and faculty or staff members are approved by the Vice President of Retention Services.

How Does the Board Work?

- The Chairperson leads all proceedings and participates fully, including voting.
- The Board's goal is to review the original findings and sanctions; they cannot increase the severity of your penalties.
- Decisions are made by majority vote, recorded by secret ballot, and counted by the Chairperson.
- The Board's findings and conclusions are final.
- The Chairperson has three (3) working days to deliver written results to all involved parties.

General Rules for Reviews

These reviews are educational and **non-adversarial**, so standard legal or courtroom rules for evidence are not used. The college maintains the responsibility to show that the assigned penalty was appropriate based on the **preponderance of evidence**.

What is Preponderance of Evidence? *This means that, after looking at the available information, it is more likely than not that the alleged misconduct took place.*

You are welcome to bring an advisor, attorney, or support person to your review. Please keep in mind that their role is strictly advisory—they are not permitted to make statements, represent you, present evidence, or question witnesses during the hearing. Additionally, the college may choose to have its own legal counsel present if necessary. If attorneys are involved on either side, please be aware that we may need to adjust the timeline to coordinate everyone's schedules.

Academic Dishonesty Procedures

When an academic dishonesty concern comes up, your instructor of record (the faculty member officially assigned to your course) handles it first before it moves to any other level of review.

Notice of Complaint

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- Your instructor will send you a written notice of the alleged violation and ask you to meet at a specific date, time, and location. At that meeting, you will be told what the concern is, plagiarism reports, comparison exams, observation notes, etc. and be given a chance to explain your side.
- If you choose not to attend the meeting, you automatically waive your right to a conference which does not waive the student's right to request a review of the resulting decision. Your instructor will then make a decision based solely on the information already available.

Notice of Disciplinary Findings

- Your instructor will assess the situation, assign any academic sanctions, complete the Academic Integrity Discipline Report Form, and give you a copy of the form.
- The form will tell you the findings, any academic sanctions imposed, and your right to a review. Your instructor is required to report the violation and sanctions by submitting the form to the Student Conduct Officer through the official incident reporting system.

Academic Sanctions

Academic sanctions related to dishonesty may include:

- A reduced or failing grade on a specific assignment or exam.
- A reduced or failing grade in the course (change made via the official Change of Grade process)
- These sanctions may be given in addition to other disciplinary measures imposed by TSTC.
- If circumstances warrant it, or if you have multiple academic dishonesty violations, further disciplinary sanctions may follow.

Decision Review Process

If you disagree with your instructor's decision, you have three (3) working days from receipt of a decision to request a review by the Statewide Review Board. Once the Board issues its formal findings letter, the Provost, Associate Provost, or their designee will provide you with a written final decision within five (5) working days.

05. Amnesty for Alcohol and Drug Emergencies

Alcohol poisoning and drug overdose are serious and life-threatening medical emergencies. You may encounter this type of emergency during your time with us at Texas State Technical College. We know that sometimes you might be afraid to seek emergency medical care when you suspect alcohol poisoning or a drug overdose because you do not want to get yourself or others in trouble. To encourage you to seek the help you need, we have instituted the Student Amnesty for Alcohol and Drug Emergencies.

Student Amnesty for Alcohol and Drug Emergencies applies in the following cases:

- Possession of alcohol or drugs by a minor (minor in possession).
- Unauthorized possession or use of alcohol or drugs on campus.
- Consumption of alcohol by a minor (minor in consumption).
- Use of drugs.
- Intoxication as the result of using alcohol (including public intoxication).

The Procedure

1. Call 911 when alcohol poisoning or drug overdose is present or suspected.
2. Stay with the person under the influence.
3. Cooperate with all emergency personnel.

After the Incident

1. We will refer you to the Student Rights and Responsibilities office, where you will be evaluated for amnesty.
2. If you are eligible for amnesty, you will still be required to participate in an educational component and may be referred for an individual consultation. However, you will not face formal disciplinary action.
3. If you decline or fail to attend the educational component, or if you fail to comply with the requirements, you will become subject to formal disciplinary action.

There are limitations to this program, and your inclusion in the program is not automatic.

This program is separate, but in congruence with, the state amnesty policy [Senate Bill 1331 \(Texas 911 Lifeline legislation\)](#), which provides amnesty against criminal citations for those seeking medical attention as the result of an illegal action, such as minor in consumption or possession of alcohol by a minor. Student Amnesty for Alcohol and Drug Emergencies provides protection against formal disciplinary action by the college, whereas the Texas 911 Lifeline legislation provides protection against legal action.

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Amnesty for Victims of Sexual Misconduct (Title IX/VAWA)

We encourage you to report any Title IX incidents involving sexual misconduct, which includes sexual harassment, sexual assault, dating violence, and/or stalking. Title IX and VAWA (the Violence Against Women Act) are federal laws that protect you from discrimination based on sex and ensure a safe environment free from sexual violence in educational programs.

Sometimes victims are hesitant to report these incidents to college officials because they fear they may be charged with policy violations themselves. We recognize that if you have been consuming alcohol (including underage consumption) or drugs at the time of an incident, you may be hesitant to make a report because of potential consequences. To encourage you to report, if you make a good faith report of a Title IX offense directed at you or another person, or if you participate in an investigation as a witness, you will not be subject to disciplinary action by TSTC for a conduct or policy violation related to and revealed in the report. This applies unless we determine that the violation was serious and/or placed the health or safety of others at risk.

Please note that amnesty does not preclude or prevent action by police or other legal authorities. You can refer to the [TSTC Title IX website](#) for more information.

Amnesty means that as a current TSTC student, you can avoid formal college disciplinary action and the creation of a formal disciplinary record when you call for help during an alcohol- or drug-related medical emergency.

More information can be found in Statewide Standards [ES 3.05 Alcohol and Drug Possession and Use](#), [ES 3.08 Drug Free Schools, Campuses & Workplace](#), and [HR 2.4.15 Prohibiting Sexual Misconduct and Sex-Based Discrimination](#)

06. Student Complaints and Grievances/Compact With Texans

Texas State Technical College (TSTC) is a public coeducational institution of higher education offering you courses of study in technical education leading to the award of certificates and Associate of Applied Science degrees. We also provide workforce training to business and industry, continuing education to the public, and training programs for community and state economic development.

Compact With Texas Complaint Representatives:

Abilene, Breckenridge, Brownwood, Sweetwater, Waco and Williamson County
Griselda Marion, Senior Student Development Specialist
griselda.marion@tstc.edu
325-235-7311

Harlingen, Fort Bend County, Online Students, Marshall, New Braunfels and North Texas
Janette Gomez, Senior Student Development Specialist
janette.gomez@tstc.edu
956-364-4383

Our campuses are located in Abilene, Breckenridge, Brownwood, Fort Bend County, Harlingen, Marshall, New Braunfels, North Texas, Sweetwater, Waco and Williamson County. We serve students from more than 220 counties in Texas, and our graduates may begin their careers in high-paying jobs across the state or continue their education at colleges and universities.

We know our graduates are highly valued by business and industry for their work ethic, knowledge and workplace skills.

TSTC's Customer Service Goal

It is the goal of our faculty and staff to provide you with a level of customer service that is beyond expectation. We pledge to be:

- Friendly to all we meet in our work,
- Helpful in all that we do,

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- Courteous in all of our dealings,
- Responsive to your needs, and
- Accountable for our actions.

We will deliver the highest quality services possible with the highest regard for honesty, integrity and ethical behavior.

TSTC's Formal Written Complaint/Compact With Texans Complaint Handling Procedure

We seek fair, efficient and equitable solutions for problems that arise out of your relationship with the college. We want to ensure you are heard if you feel your rights have been violated or that an action taken by one of our employees is unfair. A grievance is a formal way for you to express dissatisfaction or disagreement regarding your experience at the college.

This procedure is available to all students to present complaints concerning disagreement or dissatisfaction arising out of your relationship with the college.

Please note that filing a student grievance is not a way to change existing school policies or rules. The policies themselves are not subject to a grievance process—only how they are implemented. This procedure is a way for you to indicate that either:

1. An action taken by a school official or employee is inappropriate, improper or too harsh; or
2. You are being treated differently from other students.

Most questions or complaints can be resolved through routine channels. We encourage you to discuss your concerns with the instructor or employee involved first. Complaints received verbally and resolved through routine channels are not considered official written complaints and are not subject to this formal procedure.

Your right to a prompt and equitable resolution will not be impaired if you choose to pursue other remedies, such as filing a grievance with a federal department or agency. You can find the full [SOS ES 3.24 Student Grievances and Complaints](#) policy on our website.

We prohibit any act, deed or speech interpreted as harassment by or against students, employees and guests.

- For student claims of discrimination, please see [SOS ES 3.24 Student Grievances and Complaints](#)
- For employee claims of discrimination, please see [SOS HR 2.5.1 Anti-Harassment](#).

Nonacademic Grievance Procedures

1. To start a grievance, you must first contact the parties responsible for the action or decision. We encourage you to resolve the matter through discussions with the personnel most directly associated with the issue. Our staff will address your concerns in an open and professional manner to resolve them informally. You should make this initial contact within ten (10) working days from the date of the action. If you cannot resolve the problem this way, you must contact the Student Development Specialist at the [Student Rights and Responsibilities Office](#) at your assigned campus. They will assist you by:
 1. Reviewing the grievance policy with you and providing a link to [SOS ES 3.24 Student Grievances and Complaints](#).
 2. Providing you with the [Academic/Non-Academic Grievance Form](#) so you can submit a written grievance. You will include a summary of your grievance on the form or in an attachment.
 3. Acknowledging receipt of your grievance in writing within five (5) working days to give you an estimate of the time needed for resolution. The student, the Student Development Specialist and the employee each receive a copy of the acknowledgement.
2. The grievance will be sent to the immediate supervisor of the party involved. They will propose a resolution consistent with our policies and laws and notify you and the Student Development Specialist within fifteen (15) working days. Extensions may be granted for extenuating circumstances—meaning unusual or unforeseen situations that justify a delay.
3. If you are dissatisfied with the resolution, you may request that the Statewide Review Board review the grievance. You must make this request in writing using the Formal Review Request Form within three (3) working days of receiving the resolution letter. The committee will meet within ten (10) working days to review the documentation and provide a written decision within five (5) working days. This decision is final. If you request a review, but do not attend the scheduled hearing, you waive your right to the review.

Academic Grievance Procedures

1. You must first contact the parties responsible for the action or decision. You should attempt to resolve the matter

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through professional discussion within ten (10) working days of the decision.

2. If unsuccessful, you must contact the Student Development Specialist at your campus. They will help you review the policy, provide the [SOS ES 3.24 Student Grievances and Complaints](#) form, and acknowledge your grievance in writing within five (5) working days.
3. The grievance will be submitted to the Provost or their designee. The Provost is the senior academic administrator for your program. They will notify you of a proposed resolution within fifteen (15) working days.
4. If you are dissatisfied, you may request a review by the Statewide Review Board within three (3) working days. The board will meet within ten (10) working days and provide a final decision within five (5) working days.

Review Procedures

1. A Co-Chair of the Statewide Review Board will be responsible for assembling the committee.
2. The decision of the Statewide Review Board is final.
3. In extenuating circumstances, the timeframe may take longer, and we will notify you of the new schedule.
4. The Review Board has a maximum of five (5) working days from the date of the review to respond to you, the Student Development Specialist, and employee in writing.

Online Student Process

If you are enrolled in online courses while residing outside of Texas, the steps are:

- Follow the complaint procedures on your course syllabus with your instructor and program leadership.
- If the issue is not resolved, you may find your campus representative information [here](#).
- Complaints against a SARA-participating institution must first go through our grievance procedures. SARA stands for the State Authorization Reciprocity Agreement, which allows us to offer online education across state lines. If you are not satisfied with the outcome, you may appeal within two years to the SARA portal agency of the institution's home state. For Texas institutions, complete the [Student Complaint and Release Form](#) and email it to StudentComplaints@highered.texas.gov.

Compact With Texans Complaint Handling Procedures

1. An [Effective Customer Relations Form](#) is available to you if you have a complaint. You must complete and submit this form to your assigned Student Development Specialist.
2. The Specialist will acknowledge your grievance in writing within five (5) working days.
3. The Specialist will contact the immediate supervisor, who will review the complaint and interview the employee and relevant witnesses.
4. The supervisor will provide a letter within fifteen (15) working days addressing the actions taken and confirming the resolution, consistent with TSTC policies and with applicable local, state and federal laws.

Please note that student disciplinary decisions involving severe penalties are handled through the student conduct process rather than this grievance policy.

Discrimination or Title IX grievances are handled according to [SOS HR 2.4.15 Prohibiting Sexual Misconduct and Sex-Based Discrimination](#).

You can view the [Statewide Operating Standards \(SOS\) Home Page](#) for a full list of related standards.

07. Family Educational Rights and Privacy Act (FERPA)

We comply with the [Family Educational Rights and Privacy Act \(FERPA\)](#) and want you to be informed of your rights regarding how we handle your student records. Your rights under this act include:

1. **The right to inspect and review your academic record.** We will provide access within 45 days after the day we receive your request. You should submit a written request to the Office of the Registrar or the appropriate official that identifies the records you wish to inspect. We will make arrangements for access and notify you of the time and place for inspection. If the official you contacted does not maintain those records, they will advise you on the correct official to contact.
2. **The right to petition us to amend or correct any part of your academic record.** If you believe a part of your record is inaccurate, misleading, or violates your privacy, you may submit a written statement to the custodian of student records. You must identify the part of the record you want changed and specify why. If we decide not to amend the record, we will notify you in writing of your right to a hearing to present evidence regarding the issue.
3. **The right to provide written consent before we disclose personally identifiable information.** Personally identifiable information refers to specific data that can be used to distinguish or trace your identity, such as your name, Social Security number, or student ID. We will not disclose this information from your education records

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without your consent, except where FERPA authorizes disclosure.

One major exception is disclosure to school officials with **legitimate educational interests**. A legitimate educational interest means a school official needs to review an educational record to fulfill their professional responsibilities for us. **A school official includes:**

- A person we employ in an administrative, supervisory, academic, research, or support staff position (including law enforcement and health staff);
- A person approved by and under contract to us in a faculty position;
- A person or company we have contracted with (such as an attorney, auditor, or collection agent);
- A member of the Texas State Technical College Board of Regents;
- A student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official.

Upon request, we may also disclose educational records without your written consent to:

- A. Your parents, if they claim you as a dependent for income tax purposes;
- B. Comply with a judicial order or a lawfully issued subpoena;
- C. Appropriate parties in a health or safety emergency;
- D. An alleged victim of a crime of violence or non-forcible sex offense (this disclosure only includes the final results of any institutional disciplinary proceeding);
- E. The general public, if we determine through a disciplinary hearing that you committed a crime of violence or non-forcible sex offense in violation of our rules or state/federal law;
- F. Your parents, if you are under age 21 and we determine you violated laws or policies governing the use or possession of alcohol or a controlled substance.

4. The right to consent to the release of your semester credit hours. You may consent to release information regarding credit hours taken at other institutions to the [Texas Higher Education Coordinating Board](#).

5. The right to file a complaint. You may file a complaint with the [Family Policy Compliance Office](#) if you believe we have violated FERPA:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Ave. SW
Washington, DC 20202-4605

Following federal requirements, we are required to provide you with an annual notification of your rights under the FERPA.

Directory Information

Under the [Family Educational Rights and Privacy Act of 1974](#), we designate certain items as directory information. This is information in your record that would not generally be considered harmful or an invasion of privacy if disclosed. We may make this public unless you choose to withhold it. This includes your name, preferred address, preferred telephone number, email address, classification of coursework level, enrollment status, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of college attendance, photograph images, degrees, certificates and awards received, and your most recent previous educational agency or institution attended by the student.

If you are currently enrolled, you can prohibit the release of this information by updating your Privacy settings in Workday or by completing a request form in the Enrollment Center during registration or within the first five class days. Under the FERPA, official records are not open to the public and will not be shared without your consent. If you are a minor, you have the same rights regarding your records as adult students. If you are a legal dependent, your parent has the right to access your records if they establish dependency as defined by the [Internal Revenue Code of 1986](#). This request must be made in person at the Enrollment Center with a copy of the most recent federal income tax return and picture identification.

If you have questions concerning the disclosure of information, please contact the Office of the Registrar [Student Privacy and FERPA](#) updates are available on our website.

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Use of Student Photographs and Signatures for Publications

It is our policy to use your images or signatures for promotion or advertising only after obtaining your written permission. This is also in compliance with the FERPA and the [Fair Use Doctrine under the federal Copyright Law](#). We will obtain a release form for each set of images or signatures we retain. We keep the release form in your permanent academic record file, though other copies may be maintained elsewhere at our discretion.

More information can be found in our Statewide Standards [GA 1.5.2 Student Records](#) and [ES 3.14 Use of Student Images](#)

14. Faculty Listing

01. Faculty

TSTC faculty bring to the classroom years of industry experience and education.

Listed below are instructor's names, position, education or qualifying credentials and program in which they each serve.

tstc.edu/course-schedules.

Abshier, Charles

Instructor

Associate of Applied Science

Diesel Equipment Technology

Acevedo, Adriana

Adjunct Faculty

Master of Science

Associate Degree Nursing

Aguirre, Abraham

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Akins, Denise

Instructor

Associate of Applied Science

Occupational Safety & Environmental Compliance

Alba, Guillermo

Instructor

Associate of Applied Science

Mechatronics Technology

Alcoser, Alex

Instructor

Master of Science

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Cybersecurity

Alcoser, Maria

Instructor - Adjunct

Master of Fine Arts

Art

Alferez, Juan

Director of Alignment

Associate of Applied Science

Master of Business Administration

Automation and Controls Technology

Alford, Charles

Instructor

Associate of Applied Arts

Instrumentation Technology

Ali, Aftab

Instructor

Alternative Credentialing Experiential

Computer Networking & Systems Administration Technology

Allmand, Jeffrey

Instructor

Certificate of Completion

Diesel Equipment Technology

Alonzo Reyes, Saul

Instructor

Certificate of Completion

Automotive Technology

Alvarado, Lisa

Instructor

Master of Science

Associate Degree Nursing

Alvarez, Edward

Instructor - Dual Credit

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Associate of Applied Science

Automotive Technology

Alvarez, Ricardo

Instructor

Alternate Credentialing Experiential - US Department of Labor, High Voltage Electrician

Electrical Lineworker & Management Technology

Alvear, Christina

Instructor

Master of Science

Associate Degree in Nursing

Ammons, David

Instructor

Doctor of Philosophy

Business Management Technology

Anthony, Richard

Instructor

Bachelor of Arts

Aviation Maintenance Technology

Antilley, Lance

Instructor

Associate of Applied Science

TechnologyIndustrial Systems

Araguz, Edgar

Instructor

Bachelor of Science

Aviation Maintenance Technology

Aranda, Ramiro

Instructor

Associate of Applied Science

Aviation Maintenance Technology

Ardalani, Kyumars

Associate Professor

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Master of Science

Mathematics

Ardalani, Shwan

Instructor

Master of Business Administration

Business Management Technology

Avila, Jose

Instructor

Associate of Applied Science

Automotive Technology

Avila, Juan

Instructor

Associate of Applied Science

Welding Technology

Baesler-Ridge, Christopher

Instructor

Master of Arts

English

Baily, Jeremy

Director of Alignment

Associate of Applied Science

Precision Management Technology

Balderas, Kellie

Instructor

Associate of Applied Science

Architectural Civil Drafting Technology

Barrera, Alberto

Instructor

Associate of Applied Science

Industrial Systems Technology

Barrera, Rodrigo

Instructor - Dual Credit

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Master of Science

Precision Machining Technology

Barrientos, Rolando

Instructor

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Bass, Bryan

Instructor

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Bayliss, Mark

Instructor

Alternative Credentialing Experiential - Journeyman Lineman

Electrical Lineworker & Management Technology

Bazaldua, Jonathan

Instructor

Associate of Applied Science

HVAC Technology

Bazan, Pedro

Associate Professor

Master of Science

Developmental Mathematics

Beechly, Marvin

Instructor

Associate of Applied Science

Electrical Power & Controls

Bell, Earnest

Instructor

Bachelor of Science

Robotics & Industrial Controls Technology

Benitez, Edelmiro

Instructor

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Bachelor of Applied Technology

Business Management Technology

Benson, Kenneth

Instructor - Dual Credit

Bachelor of Science

Automotive Technology

Benson, Russell

Director of Alignment

Associate of Applied Science

Wind Energy Technology

Berquist, William

Instructor

Alternate Credentialing Experiential- Certified IPC Specialist

Instrumentation Technology

Betancourt, Daniel

Instructor

Certificate of Completion

Auto Collision & Management Technology

Bibb, Jimmy

Director of Alignment

Certificate of Completion

Plumbing & Pipefitting Technology

Bice, Lucia

Instructor

Master of Education

Developmental English

Bilbrey, Richard

Instructor

Certificate of Completion

Plumbing & Pipefitting Technology

Bishop, Scott

Instructor - Dual Credit

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Bachelor of Science
Welding Technology

Blake, Gary
Instructor
Associate of Applied Science
Wind Energy Technology

Blosser, James
Instructor
Associate of Applied Science
Industrial Systems Technology

Boer, James
Instructor
Associate of Applied Science
Welding Technology

Bowles, Donald
Instructor
Alternate Credentialing Experiential
Aviation Maintenance Technology

Bowles, Roger, Dr.
Professor
Ed.D Doctor of Education - Applied Technology and Performance Improvement
Biomedical Equipment Technology

Boyd, Christopher
Instructor
Associate of Applied Science
Diesel Equipment Technology

Boyd, Cynthia
Instructor
Bachelor of Science
Emergency Medical Services

Boyd, Darrell
Instructor

2026-2027 Catalog & Student Handbook

Alternate Credentialing Experiential

Avionics Technology

Boyd, Melissa

Instructor - Adjunct

Master of Science

Associate Degree Nursing

Bradshaw, Russell

Instructor

Alternate Credentialing Experiential

Welding Technology

Brantly, Cyler

Instructor

Associate of Applied Science

Welding Technology

Brem, Lance

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Brewer, Walt

Instructor

Alternate Credentialing Experiential

Building Construction Technology

Brickner, Larry

Instructor

Associate of Applied Science

Industrial Systems Technology

Briggs, Matthew

Instructor

Associates of Applied Science

Emergency Medical Services

Brooks, Duston

Instructor

2026-2027 Catalog & Student Handbook

Bachelor of Business Administration

Business Management Technology

Brooks, Sarah

Director of Alignment

Bachelor of Science

Health Information Technology

Brown, George

Instructor

Alternate Credentialing Experiential

Diesel Equipment Technology

Brown, Linnea

Instructor

Master's of Science

Associate Degree Nursing

Brown, Mitchel

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Browning, Yvonne

Associate Professor

Master of Arts

Developmental English

Bruce, Christopher

Instructor

Certificate of Completion

Welding Technology

Bruton, Benjamin

Director of Alignment

Bachelor of Science

Computer Programing Technology

Bryant, Elizabeth

Instructor

2026-2027 Catalog & Student Handbook

Master of Arts

Government

Bryant, Joel

Senior Instructor

Bachelor of Science

Cybersecurity

Bufkin, Debra

Instructor

Master of Arts

Developmental Mathematics

Burchett, Joshua

Instructor

Associate of Applied Science

Industrial Systems Technology

Burns, Travis

Instructor

Certificate of Completion

Welding Technology

Burton, Dillon

Instructor

Associate of Applied Science

Welding Technology

Buterbaugh, Stacie

Instructor

Bachelor of Science

Digital Media Design

Byrd, James

Instructor

Bachelor of Business Administration

Diesel Equipment Technology

Cabarubio, Ayla

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Culinary Arts

Campbell, James

Instructor

Bachelor of Applied Science

Electric Power and Controls

Campbell, Jena

Director of Alignment

Doctor of Philosophy

Academic Core

Cantu, Becka

Instructor

Associate of Applied Science

Building Construction Technology

Capetillo, Oziel

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Capps, Robert

Director of Alignment

Associate of Applied Science

Aviation Maintenance Technology

Carithers, Eric

Director of Alignment

Associate of Applied Science

Electrical Lineworker & Management Technology

Carreon, Robert

Instructor

Alternate Credentialing Experiential

Plumbing & Pipefitting Technology

Carroll, Rebecca

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Architectural & Civil Drafting Technology

Carter, Ross

Assistant Chief Pilot Instructor

Bachelor of Science

Aircraft Pilot Training Technology

Carter, Christopher

Instructor

Associate of Applied Science

Diesel Equipment Technology

Case, Cody

Instructor

Alternative Credentialing Experiential - Journeyman Lineman

Electrical Lineworker & Management Technology

Castanos, Freddy

Instructor

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Castillo, Charles

Instructor - Adjunct

Master of Science

Biology

Castillo Rico, Mario

Instructor

Associate of Applied Science

Mechatronics Technology

Castro, Eric

Director of Alignment

Bachelor of Science

Web Design & Development

Cavazos, Michael

Instructor

2026-2027 Catalog & Student Handbook

Alternate Credentialing Experiential - Federal Aviation Administration, Aircraft Mechanic-Airframe & Powerplant
Aviation Maintenance Technology

Cernosek, Brandon

Instructor

Associate of Applied Science

Welding Technology

Cervantez, Rudy

Director of Alignment

Associate of Applied Science

Automotive Technology

Chaffin, Tony

Instructor

Master of Science

Building Construction Technology

Chaney, Edward

Director of Alignment

Associate of Applied Science

Industrial Systems Technology

Chavez, Francisco

Instructor

Certificate of Completion

Heating Ventilation & Air Conditioning (HVAC) Technology

Chavez, Leonardo

Instructor

Associate of Applied Science

Computer Networking & Systems Administration

Chavez, Maricela

Director of Alignment

Master of Science

Surgical Technology

Chavez, Ramiro

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Aviation Maintenance Technology

Chen, Jay

Instructor

Associate of Science

Automotive Technology

Cherry, Aaron

Instructor

Doctor of Philosophy

Psychology

Chiappone, Abe

Instructor

Vocational/Trade School Diploma

Welding Technology

Childs, Howard

Professor

EdD-Doctor of Education

Developmental Mathematics

Chinwala, Ali

Instructor

Master of Science

Cybersecurity

Chirino, Hermes

Instructor

Master of Science

Engineering

Chrisman, Michael

Instructor

Alternative Credentialing Experiential

Plumbing & Pipefitting Technology

Christensen, Clayton

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Robotics Technology

Christian, Andrew

Instructor

Associate of Applied Science

Computer Networking & Systems Administration

Christian, Bryan

Instructor

Certificate of Completion

Aviation Maintenance Technology

Christian, Curtis

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Cintron, Lyanna

Instructor

Associate of Occupational Studies

Culinary Arts

Clancy, Nathanael

Instructor

Associate of Applied Science

Cybersecurity

Clark, Bryan

Instructor

Associate of Applied Science

Mechanical Engineering Drafting

Clark, Douglas

Instructor

Bachelor of Science

Automation & Controls Technology

Claus, Edna

Professor

2026-2027 Catalog & Student Handbook

Doctor of Philosophy

Business Management Technology

Clawson, Savannah

Instructor

Associate of Applied Science

Instrumentation Technology

Cochran, John

Instructor

Bachelor of Science

Cybersecurity

Cockrell, Thomas

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Coffman, Steven

Instructor

Associate of Applied Science

Computer Programming Technology

Colunga-Hernandez, Norma

Associate Professor

Master of Science

Cybersecurity

Constransitch, Joshua

Instructor

Alternate Credentialing Experiential - Federal Aviation Administration, Aircraft

HVAC Technology

Contois, Scott

Instructor

Master of Science

Mathematics

Cooper, Meagan

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Electrical Power & Controls Technology

Cooper, Michael

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Cordero, Joshua

Instructor

Bachelor of Science

Cybersecurity

Coronado, Luis

Instructor

Certificate of Completion

Auto Collision & Management Technology

Cortez, Israel

Instructor - Dual Credit

Certificate of Completion

Automotive Technology

Cotter, Matthew

Instructor

Certificate of Completion

Precision Machining Technology

Cowart, Susan

Director of Alignment

Master of Arts

Liberal Arts - General Education

Crawford, Bobby

Instructor

Associate of Applied Science

Robotics & Industrial Controls Technology

Crosby, Charles

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Cross, Jared

Instructor

Certificate of Completion

Aviation Maintenance Technology

Cross, Thomas

Instructor

Associate of Applied Science

Aviation Maintenance Technology

Crowley, Joe

Instructor

Associate of Applied Science

Industrial Systems Technology

Crum, Mandi

Staff Adjunct

Master of Arts

English

Cruz, Amanda

Instructor

Doctor of Philosophy

English

Cruz, Juan

Instructor

Associate of Applied Science

Automotive Technology

Cruz Reyes, Jessica

Instructor

Master of Science

Biology

Cuellar, Teresa

Instructor - Dual Credit

2026-2027 Catalog & Student Handbook

Master's of Science
Education & Training

Cureton, Mark
Instructor
Certificate of Completion
Auto Collision & Management Technology

Curtis, John
Instructor
Associate of Applied Science
Diesel Equipment Technology

Czajkowski, Anthony
Instructor
Alternative Credentialing Experiential - FAA License
Aviation Maintenance Technology

Daharsh, Caleb
Instructor
Alternate Credentialing Experiential
Electrical Lineworker & Management Technology

Davalos Aguilar, Jose
Instructor
Certificate of Completion
Plumbing & Pipefitting Technology

Davila, Jaime
Instructor
Bachelor of Science in Dental Hygiene
Dental Hygiene

Davila, Yonatan
Instructor
Associate of Applied Science
Welding Technology

Davis, Loretta
Instructor - Adjunct

2026-2027 Catalog & Student Handbook

Master of Arts

English

De la Cerda, Callie

Instructor

Master of Arts

Psychology

De la Fuente, Maria

Instructor - Dual Credit

Bachelor of Science

Education & Training

De La Rosa, Raciell

Instructor

Alternative Credentialing Experiential - Texas Department of Licensing and Regulation, Master Electrician

Electrical Construction Technology

De la Torre, Sara

Instructor

Bachelor of Applied Arts and Sciences

Electrical Power & Controls Technology

De Leon, Kimberly

Instructor

Associate of Applied Science

Architectural and Civil Drafting

De Los Santos, Rene

Instructor - Adjunct

Doctor of Dental Surgery

Dental Hygiene

De Luna, Dalia

Instructor - Adjunct

Certificate of Vocational Nursing

Licensed Vocational Nursing

Deadmon, Jeremy

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Electrical Power & Controls Technology

Deal, Chancy

Instructor

Associate of Occupational Studies

Auto Collision & Management Technology

Dean, Caden

Instructor

Alternate Credentialing Experiential

Wind Energy Technology

Deanda, Candelario

Instructor

Alternative Credentialing Experiential - Certified Lineman

Electrical Lineworker & Management Technology

Decanini, Laura

Instructor - Adjunct

Master of Science

Biology

Deibert, Alexander

Instructor

Associate of Applied Science

Welding Technology

Del Angel, Maria

Instructor

Master of Education

First Year Seminar

DeLaGarza, Alex

Instructor

Associate of Applied Science

Diesel Equipment Technology

Delaurelle, Nicholas

Instructor

2026-2027 Catalog & Student Handbook

Certificate of Completion

Welding Technology

Deleon, Rodney

Instructor

Alternate Credentialing Experiential

Electrical Lineworker & Management Technology

Delgado, Jenny

Instructor

Master of Science

Health Information Technology

Delgado, Ryan

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

DeLong, Ivy

Instructor

Bachelor of Science

Chemical Dependency Counseling

Derks, Raleigh

Instructor

Associate of Applied Science

Welding Technology

Desjardins, Tony

Instructor

EdD-Doctor of Education

Education & Training

Desper, Jeffrey

Instructor

Alternative Credentialing Experiential

Automation and Controls Technology

DeVore, Daniel

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Industrial Systems Technology

Diabate, Ismael

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Diamond, Mark

Instructor

Bachelor of Business Administration

Culinary Arts

Diaz, Daniel

Instructor

Associate of Applied Science

Industrial Systems Technology

Dillinger, Justin

Instructor

Master of Science

Computer Networking & Systems Administration

Dixon, James

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Dorazil, Bryan

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Dorman, Luther

Instructor - Adjunct

Certificate of Completion

Welding Technology

Doughty, David

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Aviation Maintenance Technology

Dowty, Roy

Instructor - Dual Credit

Associate of Applied Science

Welding Technology

Dowdy, Trey

Instructor

Vocational/Trade School Diploma

Welding Technology

Drewery, Mavrick

Instructor

Certificate of Completion

Industrial Systems Technology

Dudek, John

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Dudik, Zachary

Instructor

Associate of Applied Science

Precision Machining Technology

Duhon, James

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Dulock, Mary

Instructor

Associate of Applied Science

Architectural Design & Engineering Graphics Technology

Dunn, Nicholas

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Welding Technology

Dupre, Racheal

Instructor - Adjunct

Associate of Applied Science

Aviation Maintenance Technology

Duran, Daniel

Instructor

Alternative Credentialing Experiential - Journeyman Electrician

Electrical Construction

Durham, Jarriet

Instructor

Associate of Applied Science

Industrial Systems Technology

Durham, Cody

Instructor

Vocational/Trade School Diploma

Diesel Equipment Technology

Eades, Matthew

Instructor

Alternative Credentialing Experiential

Diesel Equipment Technology

Edwards, Ronald

Instructor

Associate of Applied Science

Computer Networking & Systems Administration

Ellwood, Russell

Instructor

Master of Science

Mathematics

Elston, Jeffrey

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Welding Technology

Escamilla, Eva
Instructor
Bachelor of Science
Developmental Mathematics

Escamilla, Javier
Instructor
Associate of Applied Science
Welding Technology

Escobedo, Raul
Instructor
Associate of Applied Science
Emergency Medical Services

Esparza, Juan
Instructor
Associate of Applied Science
Welding Technology

Esquivel, Erica
Instructor
Master of Education
Education & Training

Estrada, Justin
Instructor
Associate of Applied Science
Heating Ventilation & Air Conditioning (HVAC) Technology

Estrella, Esmeralda
Instructor
Associate of Applied Science
Biomedical Equipment Technology

Ewing, Todd
Instructor

2026-2027 Catalog & Student Handbook

Master of Science

Biomedical Equipment Technology

Fannin, Jeremy

Instructor

Alternative Credentialing Experiential

Industrial Systems Technology

Farraje, Said

Instructor - Dual Credit

Bachelor of Arts

Culinary Arts

Fernandez, Cesar

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Ferrell, Richard

Instructor

Associate of Applied Science

Diesel Equipment Technology

Fields, Glenn

Instructor

Alternative Credentialing Experiential

Precision Machining Technology

Fierro, Pedro

Instructor - Dual Credit

Alternate Credentialing Experiential

Welding Technology

Filut, Richard

Director of Alignment

Bachelor of Business Administration

Electrical Power & Controls Technology

Fleming, John

Instructor

2026-2027 Catalog & Student Handbook

Certificate of Completion

Auto Collision & Management Technology

Flener, Samara

Instructor

Associate of Applied Science

Welding Technology

Fletcher, Cody

Instructor

Associate of Applied Science

Diesel Equipment Technology

Flores, Antonio

Instructor - Adjunct

Associate of Applied Science

Aviation Maintenance Technology

Flores, Jose

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Flores-Jinez, Jenaro

Instructor

Associate of Applied Science

Mechatronics Technology

Flores, Nicholas

Instructor

Alternate Credentialing Experiential - Journeyman Electrician

Electrical Construction

Follis, Daniel

Instructor

Associate of Applied Science

Cybersecurity

Folz, David

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Diesel Equipment Technology

Folz, Daylen

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Fondren, John

Instructor

Certificate of Completion

Industrial Systems Technology

Fonteneaux, Keysha

Instructor

Associate of General Studies

Electrical Construction Technology

Formacio-Serna, Emmanuel

Instructor

Bachelor of Science-General Medicine

Biology

Fowler, Maxie

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Franklyn, Madani

Instructor

Certificate of Completion

Welding Technology

Frausto, Robert

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Frias, Brenda

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Surgical Technology

Fritz, Stacy
Instructor - 9 Month
Bachelor of Science
Developmental English

Fulbright, Christie
Instructor
Master of Science
Mathematics

Fuller, John
Instructor
Alternative Credentialing Experiential
Welding Technology

Gaither, Garnet
Master Instructor
Bachelor of Fine Arts
Digital Media Design

Galenbeck, Jiggs
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Galluzzi, Anna
Instructor - Adjunct
Master of Arts
Art - Humanities

Gamble, Chris
Instructor
Certificate of Completion
Precision Machining Technology

Gamez, Santos
Instructor

2026-2027 Catalog & Student Handbook

Master of Education

Architectural & Civil Drafting

Garcia, Albert

Instructor - Dual Credit

Associate of Occupational Science

Automotive Technology

Garcia, Anna

Instructor - Adjunct

Doctor of Dental Surgery

Dental Hygiene

Garcia, Analisa

Instructor - Adjunct

Master of Arts

Art - Humanities

Garcia, David

Instructor - Adjunct

Master of Science

Biology

Garcia, Francisco

Instructor

Associate of Applied Science

Precision Machining Technology

Garcia, Ida

Instructor - Dual Credit

Master of Education

Education & Training

Garcia, Javier

Instructor

Alternative Credentialing Experiential - Certified Lineman

Electrical Lineworker & Management Technology

Garcia, John

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Welding Technology

Garcia, Juanita

Instructor

Master of Arts

Speech

Garcia, Patrick

Instructor

Alternate Credentialing Experiential

Industrial Systems

Garcia, Stacy

Instructor - Adjunct

Master of Science

Associate Degree Nursing

Gardner, Zacory

Instructor

Associate of Applied Science

Emergency Medical Services

Garrick, Abriel

Instructor

Master of Arts

English

Garvin, David

Instructor

Alternative Credentialing Experiential - Master Electrician

Solar Energy Technology

Garza, Gabriel

Instructor - 9 Month

Bachelor of Arts

Digital Media Design

Garza, Justin

Instructor

2026-2027 Catalog & Student Handbook

Certificate of Completion

Welding Technology

Garza, Rene

Instructor

Master of Fine Arts

Art - Humanities

Garza Campa, Erick

Instructor

Bachelor of Science

Mechatronics Technology

Gathright, Sean

Instructor

Associate of Applied Science

Aviation Maintenance Technology

Gay, Michael

Director of Alignment

Master of Arts

Biology

Gaytan, Julian

Instructor

Associate of Applied Science

Emergency Medical Services

George, Afiadanma

Staff Adjunct

Master of Arts

English

Getman, Marta

Associate Professor

Master of Arts

First Year Seminar

Gilbert, Walker

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Aircraft Pilot Training Technology

Ginez , Melinda

Instructor

Bachelor of Applied Science

Dental Hygiene

Glaser, Brian

Instructor

Alternate Credentialing Experiential

Building Construction Technology

Glenn, Joshua

Instructor

Associate of Applied Science

Automotive Technology

Godfrey, Darrell

Instructor

Bachelor of Science

Electrical Construction Technology Technology

Goerdel, Stephanie

Staff Adjunct

Alternative Credentialing Experiential

Emergency Medical Services

Goforth, Donald

Instructor

Bachelor of Science

Industrial Systems Technology Technology

Gomez, Arturo

Instructor

Certificate of Completion

Welding Technology

Gonzales, Amy

Instructor

2026-2027 Catalog & Student Handbook

Master of Education

Chemical Dependency Counseling

Gonzales, Jacob

Instructor

Alternative Credentialing Experiential

Welding Technology

Gonzales, Kacee

Instructor

Associate Degree in Nursing

Licensed Vocational Nursing

Gonzales, Marissa

Instructor

Associate of Applied Science

Surgical Technology

Gonzales, Sarah

Instructor

Master of Arts

English

Gonzalez, Alberto

Instructor - Dual Credit

Certificate of Completion

Automotive Technology

Gonzalez, Asdrubal

Instructor

Certificate of Completion

Diesel Equipment Technology

Gonzalez, Luis

Instructor

Bachelor of Science

Computer Programming Technology

Gonzalez, Marco

Instructor - Dual Credit

2026-2027 Catalog & Student Handbook

Bachelor of Science
Welding Technology

Goodman, Paul
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Goolsbee, Asa
Instructor
Certificate of Completion
Welding Technology

Gracia, Esmeralda
Instructor - Dual Credit
Doctor of Chiropractic
Biology

Graham, William
Instructor
Associate of Applied Science
Auto Collision & Management Technology

Gremillion, Lance
Instructor
Bachelor of Arts
Automotive Technology

Griffin, Erica
Director of Alignment
Associate of Applied Science
Process Operations

Griffin, George Chip
Instructor
Bachelor of Applied Arts & Sciences
Biomedical Equipment Technology

Grimes, Jeremy
Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential - Journeyman Lineman

Electrical Lineworker & Management Technology

Guajardo, Aron

Instructor

Associate of Applied Science

Robotics & Industrial Controls Technology

Guerrero, Ryan

Instructor

Certificate of Completion

Heating Ventilation & Air Conditioning (HVAC) Technology

Guerrero, Veronica

Instructor

Certificate of Completion

Licensed Vocational Nursing

Guevara, Victor

Instructor

Certificate of Completion

Automotive Technology

Guinn, Lyle

Instructor

Associate of Applied Science

Precision Machining Technology

Gustin, Sterling

Instructor

Bachelor of Science

Industrial Systems Technology

Gutierrez, Jesus

Instructor

Master of Arts

Developmental English

Hall, Kurtis

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Computer Networking & Systems Administration

Hand, Randy

Instructor

Associate of Applied Science

Aviation Maintenance Technology

Hann, Lisa

Instructor

Bachelor of Science

Associate Degree Nursing

Hanson, Chad

Instructor

Alternate Credentialing Experiential

Automotive Technology

Haregot, Birhanu

Instructor

Master of Science

Cybersecurity

Harley, David

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Harper, Dean

Instructor

Associate of Applied Science

Instrumentation Technology

Harren, Hunter

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Harris, Justin

Instructor

2026-2027 Catalog & Student Handbook

Vocational/Trade School Diploma

Diesel Equipment Technology

Haugh, Jesse

Instructor

Associate of Applied Science

Diesel Equipment Technology

Hearnsberger, Brandon

Instructor

Associate of Applied Science

Process Operations

Henderson, David

Instructor - Adjunct

Associate of Applied Science

Diesel Equipment Technology

Hensley, Jerron

Instructor

Associate of Applied Science

Emergency Medical Services

Hensley, John

Instructor - 9 Month

Master of Science

First Year Seminar

Hernandez, Aaron

Instructor

Bachelor of Science

Mechanical Engineering Drafting

Hernandez, Alexander

Instructor

Certificate of Completion

Automotive Technology

Hernandez, April

Instructor

2026-2027 Catalog & Student Handbook

Bachelor of Applied Arts & Sciences

Chemical Dependency Counseling

Hernandez, Christopher

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Hernandez, Edgar

Instructor

Certificate of Completion

Plumbing & Pipefitting Technology

Hernandez, Luis

Instructor

Doctor of Philosophy

Chemistry

Hernandez, Marisol

Instructor

Master of Science

Biology

Hernandez, Monica

Instructor

Master of Arts

Speech - Humanities

Hertel, Amy

Instructor

Bachelor of Science

Cybersecurity

Hicks, Miranda

Instructor - Adjunct

Associate of Applied Science

Emergency Medical Services

Hightower, Cody

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Welding Technology

Hightower, JoLynn

Director of Alignment

Bachelor of Business Administration

Business Management Technology

Hildebrandt, Jesse

Instructor

Certificate of Completion

Auto Collision & Management Technology

Hill, Cody

Instructor

Certificate of Completion

Welding Technology

Hill, Travis

Instructor

Associate of Applied Science

Welding Technology

Hillger, Daniel

Instructor

Vocational/Trade School Diploma

Welding Technology

Hinojosa, Patricia

Instructor

Master of Science

First Year Seminar

Hinojosa, Vanessa

Instructor

Master of Science

Associate Degree Nursing

Hitchcock, Jason

Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Hodges, Riley

Instructor

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Hogan, Christine

Instructor

Alternative Credentialing Experiential

Automotive Technology

Holland, LaDonna

Instructor - Adjunct

Master of Science

Associate Degree Nursing

Holland, Brandon

Instructor

Master of Business Administration

Process Operations

Hollingshead, Phyllis

Master Instructor

Bachelor of Science

Computer Programing Technology

Holtzman, David

Director of Alignment

Master of Business Administration

Culinary Arts

Hornsey, Joseph

Director of Alignment

Alternative Credential Experiential

Cybersecurity

Horsley, Jarret

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Automotive Technology

Hosseinpour, Mehrdad
Master Instructor
Master of Education
Mathematics

Houston, Brandon
Certified Flight Instructor
Associate of Applied Science
Aircraft Pilot Training Technology

Hughins, Steven
Instructor
Associate of Applied Science
Electrical Power & Controls Technology

Human, Lucretia
Instructor
Master of Education
Dental Hygiene

Hummons, Terry
Instructor
Alternative Credentialing Experiential
Welding Technology

Humphrey, David
Instructor
Master of Arts
English

Hutcherson, Russell
Instructor
Associate of Applied Science
Welding Technology

Ivy, James
Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Diesel Equipment Technology

Jackson, Eric
Instructor
Bachelor of Science
Cybersecurity

Jaco, Brandon
Instructor
Alternate Credentialing Experiential
Aircraft Pilot Training Technology

Jacobs, Jeffrey
Instructor
Bachelor of Science
Licensed Vocational Nursing

Jaimes, Richard
Instructor
Associate of Applied Science
Welding Technology

James, Jesse
Instructor
Master of Science
Biology

Janik, Jim
Instructor
Alternate Credentialing Experiential
Building Construction Technology

Janssen, Nick
Instructor - Dual Credit
Bachelor's of Applied Arts & Sciences
Cybersecurity

Jenkins, Larry
Instructor

2026-2027 Catalog & Student Handbook

Bachelor of Science

Industrial Systems Technology

Johndrow, Paul

Instructor

Master of Science

Mathematics

Johnson, Luther

Instructor

Associate of Applied Science

Welding Technology

Jolley, Torey

Instructor - Adjunct

Master of Fine Arts

English

Jones, Billie

Instructor

Associate of Arts

Wind Energy Technology

Jones, Desiree

Instructor

Associate of Applied Science

Digital Media Design

Jones, Ronald

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

Jones, Ross

Instructor

Certificate of Completion

Aviation Maintenance Technology

Jost, Trae

Instructor

2026-2027 Catalog & Student Handbook

Bachelor of Science

Aircraft Pilot Training Technology

Juarez Jr, Andres

Instructor

Associate of Applied Science

Precision Machining Technology

Juhl, Jerry

Teaching Lab Assistant

Associate of Applied Science

Automotive Technology

Kahler, Kent

Instructor

Associate of Applied Science

Diesel Equipment Technology

Keener, Curtis

Instructor

Associate of Applied Science

Occupational Safety & Environmental Compliance

Keirns, Gregory

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Keith, Melinda

Instructor - 9 Month

Bachelor of Science

Developmental English

Keszler, Jefferey

Instructor

Alternate Credentialing Experiential - I-CAR, Steel Welding

Auto Collision & Management Technology

Kimberley, Patricia

Senior Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Computer Networking & Systems Administration

Kimmel, Kevin

Instructor

Bachelor of Science

Building Construction Technology

King, James

Instructor

Alternate Credentialing Experiential - Texas State Board of Plumbing Examiners, Master Plumber

Plumbing & Pipefitting Technology

Kinsinger, Dennis

Instructor

Associate of Applied Science

Welding Technology

Kirk, Richard

Professor

ED-Doctor of Education

Psychology

Kirkpatrick, Suzy

Instructor

Associate of Applied Science

Architectural and Civil Drafting

Kluck, Kevin

Instructor

Associate of Applied Science

Diesel Equipment Technology

Kluck, Lane

Instructor

Associate of Applied Science

Diesel Equipment Technology

Knecht, Brandon

Instructor

2026-2027 Catalog & Student Handbook

Alternate Credentialing Experiential - Texas Department of Licensing and Regulation, Master Electrician
Electrical Construction

Knight, Frederick

Instructor

Bachelor of Arts

Automotive Technology

Knudsen, Martin

Associate Professor

Master of Science

Occupational Safety & Environmental Compliance

Kolar, James

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

Kolb, Andy

Instructor

Bachelor of Science

Electrical Power & Controls

Kotowicz, James

Instructor

Associate of Applied Science

Diesel Equipment Technology

Kotzur, Velma

Associate Professor

Master of Arts

Sociology

Krumnow, Lee

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

Labanieh, Yahya

Instructor

2026-2027 Catalog & Student Handbook

Master of Science

Cybersecurity

Landrum, Travis

Instructor

Alternative Credentialing Experiential-Certificate of Completion

Automotive Technology

Lara, Agustin

Instructor

Associate of Applied Science

Cybersecurity

Larrazolo, Francisco

Instructor

Master of Education

Developmental Math

Larson, Richard

Instructor

Master of Science

Welding Technology

Leal, Joseph

Instructor

Associate of Applied Science

Diesel Equipment Technology

Leija, Eldwin

Instructor

Bachelor of Science

Mechatronics

Leija, Raymundo

Instructor

Certificate of Completion

Auto Collision Technology

Leining, Harry

Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Precision Machining Technology

Leon, Esteban

Instructor

Alternate Credentialing Experiential - ASE, A1-A6 Certifications

Automotive Technology

Lerma, Melissa

Instructor

Associate of Applied Science

Surgical Technology

Lewis, Adam

Instructor

Associate of Applied Science

Drafting & Design Technology

Liedtke, Tyson

Instructor

Associate of Applied Science

Automotive Technology

Limas, Ricardo

Instructor

Associate of Applied Science

Automotive Technology

Lloyd, Tony

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Long, Shawna

Instructor

Associate of Applied Science

Welding Technology

Longmire, Steven

Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Plumbing & Pipefitting Technology

Lopez, Dalton

Instructor

Associate of Applied Science

Emergency Medical Services

Love, Christopher

Instructor

Associate of Applied Science

Cybersecurity

Lozano, Jose

Instructor

Associate of Applied Science

Computer Programming Technology

Lozano, Zuemy

Instructor

Master of Science

Robotics & Industrial Controls Technology

Lucas, Christopher

Director of Alignment

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Lucas, Robert

Instructor

Associate of Applied Science

HVAC Technology

Luna, Cesar

Instructor

Certificate of Completion

Auto Collision & Management Technology

Lynch, Roger

Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Welding Technology

Lynn, Elizabeth

Instructor

Master of Science

Vocational Nursing

Lynn, Joshua

Instructor

Associate of Applied Science

Building Construction Technology

Madla, Cynthia

Instructor - Adjunct

Master of Science

Associate Degree Nursing

Mallow, Bryce

Instructor

Associate of Applied Science

Cybersecurity

Mankey, Jonathan

Instructor

Associate of Applied Science

Cybersecurity

Marquez, Salvador

Instructor

Associate of Applied Science

Welding Technology

Martin, Daniel

Instructor

Associate of Applied Science

Licensed Vocational Nursing

Martin, Jason

Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Martin, Jordyn

Instructor

Bachelor of Science in Nursing

Licensed Vocational Nursing

Martin, Linda

Senior Instructor

Bachelor of Science

Instrumentation Technology

Martin, Timmy

Instructor - Dual Credit

Associate of Applied Science

Automotive Technology

Martinez, Albert

Instructor

Associate of Applied Science

Industrial Systems Technology

Martinez, Alfredo

Instructor

Associate of Applied Science

Building Construction Technology

Martinez, Eufemio

Instructor

Certificate of Completion

Automotive Technology

Martinez, Jose

Instructor - Adjunct

Doctor of Medicine

Biology

Martinez, Luis

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Emergency Medical Services

Martinez, Michael
Instructor - Dual Credit
Associate of Science
Automotive Technology

Martinez, Paul
Instructor
Associate of Applied Science
Biomedical Equipment Technology

Marze, Brawley
Instructor
Associate of Applied Science
Precision Machining Technology

Massey, Shane
Instructor
Alternative Credentialing Experiential
Electrical Construction Technology Technology

Mast, Jason
Instructor
Doctor of Philosophy
Physics

Mater, Addison
Instructor
Associate of Applied Science
Heating Ventilation & Air Conditioning (HVAC) Technology

Matous, Warren
Instructor
Associate of Applied Science
Instrumentation Technology

Matthews, John
Instructor

2026-2027 Catalog & Student Handbook

Bachelor of Science

Building Construction Technology

Mayberry, Dan

Instructor

Alternative Credentialing Experiential

Electrical Construction Technology Technology

McCuen, Douglas

Instructor

Certificate of Completion

Heating, Ventilation, & Air Conditioning (HVAC) Technology

McGeary, Max

Instructor - Dual Credit

Alternative Credentialing Experiential

Welding Technology

McGee, John

Director of Alignment

Associate of Applied Science

Welding Technology

McGinnis, John

Instructor

Master of Business Administration

Cybersecurity

McGrew, Kincade

Instructor

Associate of Applied Science

Welding Technology

McKee, Nicholas

Instructor

Associate of Applied Science

Precision Machining Technology

McLennan, Stuart

Instructor

2026-2027 Catalog & Student Handbook

Bachelor of Science

Cybersecurity

McMahan, Brandon

Director of Alignment

Associate of Applied Science

Robotics & Industrial Controls Technology

McNeely, Amy

Instructor

BS Bachelor of Science in Psychology

Chemical Dependency Counseling

McNeil, Richard

Instructor

Alternative Credentialing Experiential

Electrical Construction Technology

Mears, Jamie

Director of Alignment

Master of Science

Licensed Vocational Nursing

Medina, Frank

Instructor

Associate of Applied Science

Heating Ventilation & Air Condition (HVAC) Technology

Medrano, Adrian

Instructor

Associate of Applied Science

Computer Networking & Systems Administration

Medrano, Luis

Instructor - Dual Credit

Alternate Credentialing Experiential

Welding Technology

Merrifield, Kacee

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Licensed Vocational Nursing

Mesa, Joe
Instructor
Alternative Credentialing Experiential
Precision Machining Technology

Miedema, Jake
Instructor-Certified Flight Instructor
Associate of Applied Science
Aircraft Pilot Training Technology

Miller, Philip
Instructor
Associate of Applied Science
Welding Technology

Millington, James
Instructor
Bachelor of Science
Cybersecurity

Mills, Andrew
Instructor
Associate of Applied Science
Industrial Systems Technology Technology

Mills, Matthew
Instructor
Associate of Applied Science
Automotive Technology

Milner, Melanie
Director of Alignment
Doctor of Nursing Practice
Associate Degree in Nursing

Mitchell, Dustin
Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Mitchell, Robert

Instructor

Bachelor of Science

Electrical Lineworker & Management Technology

Mocuta, Marcel

Instructor

Alternative Credentialing Experiential-FAA license

Aviation Maintenance Technology

Molina Ramirez, Christian

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Molini, Frank

Instructor

Certificate of Completion

Welding Technology

Moncus, Connie

Instructor

Master of Business Administration

Business Management Technology

Monk, Leslie

Instructor

Associate of Arts

Electrical Power & Controls Technology Technology

Monroy, Justin

Instructor - Adjunct

Associate of Applied Science

Architectural Design & Engineering Graphics Technology

Montemayor, Joel

Instructor - Dual Credit

2026-2027 Catalog & Student Handbook

Bachelor of Science
Mechatronics Technology

Montoya, Michael

Instructor

Alternate Credentialing Experiential - Texas Department of Licensing and Regulation, Master Electrician
Electrical Construction

Moore, Dustin

Instructor - Dual Credit

Bachelor of Science

Welding Technology

Moore, Joe

Instructor

Associate of Applied Science

Automotive Technology

Moore, Kenneth

Instructor

Associate of Applied Science

Welding Technology

Morelock, William

Instructor

Alternative Credentialing Experiential

Building Construction Technology

Morin, Ezequiel

Instructor

Associate of Applied Science

Diesel Equipment Technology

Morgan, David M.

Instructor

Certificate of Completion

Auto Collision & Management Technology

Morman, Robert

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Licensed Vocational Nursing

Moxley, Timothy
Instructor
Associate of Applied Science
Diesel Equipment Technology

Munro, Josh
Instructor
Alternative Credentialing Experiential
Electrical Power & Controls Technology

Murphy, David
Instructor
Bachelor of Science
Precision Machining Technology

Murphy, Kirt
Instructor
Vocational/Trade School Diploma
Welding Technology

Murphy, Michael
Master Instructor
Bachelor of Arts
Developmental Mathematics

Murrell, Brenda
Instructor
Bachelor of Science
Architectural Drafting and Engineering Graphics Technology

Muszar, Porsche
Instructor
Master of Science
Associate Degree Nursing

Myers, James
Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Architectural/Civil Drafting Technology

Myers, Jessica

Instructor

Master of Arts, Management

Dental Hygiene

Nacianceno, Adrian

Instructor

Associate of Applied Science

Aviation Maintenance Technology

Nagel, Michael

Instructor

Alternative Credentialing Experiential

Welding Technology

Nauman, Sam

Associate Professor

Master of Science

Developmental Mathematics

Navarro, Luis

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Necessary, Bryan

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Neufeld, Martha

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Newhart, Angel

Director of Alignment

2026-2027 Catalog & Student Handbook

Bachelor of Science

Aircraft Pilot Training Technology

Nguyen, Dien

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Nichols, Randall

Instructor

Alternate Credentialing Experiential

Electrical Lineworker & Management Technology

Nieto, Javier

Instructor

Master of Science

Computer Science

Nixon, Daniel

Instructor

Associate of Applied Science

Precision Machining Technology

Nizigiyimana, Deogratias

Instructor

Associate of Applied Science

Precision Machining Technology

Novenario, Daisy

Instructor

Associate of Applied Science

Precision Machining Technology

Nunez, Edward

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

Obare, Charles

Instructor

2026-2027 Catalog & Student Handbook

Master of Science

Mathematics

Ochoa, Rudy

Instructor

Associate of Applied Science

Electrical Construction Technology

Odegard, Peter

Instructor

Alternative Credentialing Experiential-Vocational Trade Diploma

Avionics

Odoms, Sylvia

Instructor - Dual Credit

Master of Science

Computer Programming Technology

Ogburn, William

Instructor

Associate of Applied Science

Industrial Systems Technology

Olguin, Chris

Instructor

Alternative Credentialing Experiential-Journeyman Lineman

Electrical Lineworker & Management Technology

Olsen, Jeff

Instructor

Master of Arts

History

O'Neal, Patricia

Instructor

Master of Arts

Mathematics

Ortiz, Mando

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Biomedical Equipment Technology

Owens, Jonathan

Instructor

Associate of Applied Science

Cybersecurity

Oyerbides, Adam

Instructor

Certificate of Completion

Diesel Equipment Technology

Palady, Jayme

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Palombo, Luke

Instructor

Alternate Credentialing Experiential - Certified Solar Assessor

Solar Energy Technology

Palomino, Jennifer

Instructor

Doctor of Philosophy

Physics

Panayoton, Dimitri

Instructor

Certificate of Completion

Aviation Maintenance Technology

Panici, Stevan

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Panzer, Marla

Instructor - Adjunct

2026-2027 Catalog & Student Handbook

Master of Science

Associate Degree Nursing

Parker, Lance

Instructor

Associate of Applied Science

Diesel Equipment Technology

Parks, Shelley

Director of Alignment

Bachelor of Arts

Developmental Education

Parsee, Jerome

Instructor

Master of Arts

First Year Seminar

Pate, John

Instructor

Associate of Applied Science

Computer Networking & Systems Administration

Paulk, Jon

Instructor - Dual Credit

Associate of Applied Science

Welding Technology

Pavelka, Jakob

Instructor

Associate of Applied Science

Welding Technology

Peace, Johnny

Instructor

Alternative Credentialing Experiential

Diesel Equipment Technology

Peine, Mickle

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Instrumentation Technology

Pelzel, Russell
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Pena, Faustino
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Pena, Jose
Instructor
Associate of Applied Science
Automotive Technology

Pena, Juan
Instructor
Certificate of Completion
Diesel Equipment Technology

Pena, Rafael
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Pepper, Sandra
Instructor
Associate of Applied Science
Culinary Arts

Perales, Kristen
Instructor
Associate of Applied Science
Building Construction Technology

Perez, Carlos
Instructor

2026-2027 Catalog & Student Handbook

Master of Science

Biology

Perez, Elian

Instructor

Vocational/Trade School Diploma

Welding Technology

Perez III, Tomas

Instructor

Associate of Applied Science

Licensed Vocational Nursing

Perkins, Matthew

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Peters, Douglas

Instructor

Associate of Applied Science

Cybersecurity

Peterson, Matthew

Instructor

Associate of Applied Science

Diesel Equipment Technology

Phillips, Andrew

Instructor

Bachelor of Business Administration

Cybersecurity

Phillips, Daniel

Instructor

Associate of Applied Science

Diesel Equipment Technology

Phillips, Sirpatrick

Instructor

2026-2027 Catalog & Student Handbook

Certificate of Completion

Welding Technology

Pickens, Richard

Instructor

Associate of Applied Science

Automotive Technology

Pierce, Cristina

Instructor - Adjunct

Master of Arts

English

Pierce, Joe

Master Instructor

Bachelor of Arts

Developmental English

Pillai, Hari

Instructor

Bachelor of Technology

Occupational Safety & Environmental Compliance Technology

Pizano, Samuel

Instructor

Associate of Applied Science

Architectural & Civil Drafting

Place, David

Instructor

Master of Science

Digital Media Design

Player, Rhonda

Instructor - Adjunct

Master of Education

Developmental Mathematics

Pompa, Shawn

Instructor - Adjunct

2026-2027 Catalog & Student Handbook

Master of Science

Associate Degree Nursing

Porras, Paul

Instructor

Associate of Applied Science

Culinary Arts

Porter, Chris

Instructor

Associate of Applied Science

Building Construction Technology

Porterfield, Elaine

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Poston, Gregory

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Powledge, Troy

Instructor

Associate of Applied Science

Automation & Controls Technology

Pratt, Ashleigh

Director of Alignment

Doctor of Education

Education & Training

Price, Kenneth

Instructor

Alternate Credentialing Experiential - NCCER, Construction Site Safety Supervisor

Building Construction Technology

Proctor, Winona

Instructor

2026-2027 Catalog & Student Handbook

Master of Science

Associate Degree in Nursing

Purcell, Teresa

Instructor

Associate of Applied Science

Occupational Safety and Environmental Compliance Technology

Pustejovsky, Andrew

Instructor

Alternative Credentials Experiential-Master Electrician

Electrical Construction Technology

Pyatt, William

Instructor

Alternative Credentialing Experiential

Electrical Power & Controls Technology

Rademacker, Reid

Instructor-Certified Flight Instructor

Alternative Credentialing Experiential - DOT FAA Commercial Pilot

Aircraft Pilot Training Technology

Raith, Alan

Instructor

Alternative Credentialing Experiential - Journeyman License

Plumbing & Pipefitting Technology

Ramirez, Beyda

Instructor

Bachelor of Science

Health Information Technology

Ramirez, Gisela

Instructor

Bachelor of Science in Dental Hygiene

Dental Hygiene

Ramirez, Maria

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Auto Collision & Management Technology

Ramirez, Priscilla

Instructor

Master of Science

Education & Training

Ramirez, Victor

Director of Alignment

Master of Science

Drafting & Design Technology

Ramos, Angelica

Instructor

Bachelor of Science

Drafting & Design Technology

Ratliff, Tyler

Instructor

Alternative Credentialing Experiential - Journeyman Lineman

Electrical Lineworker & Management Technology

Reaves, Mathew

Instructor

Alternate Credentialing Experiential - Texas Department of Licensing and Regulation, Journeyman Electrician

Electrical Construction

Rebando, Joey

Instructor

Alternative Credentialing Experiential

Building Construction Technology

Rees, Hunter

Instructor

Associate of Applied Science

Diesel Equipment Technology

Residori, Tyler

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Diesel Equipment Technology

Reyna, Jesus
Instructor
Alternative Credentialing Experiential
Auto Collision & Management Technology

Rhoades, Julie
Master Instructor
Bachelor of Business Administration
Web Design & Development

Rice, Charlene
Instructor
Master of Science
Associate Degree in Nursing

Richards, Christopher
Instructor
Associate of Applied Science
Electrical Power & Controls

Rico, Raquel
Director of Alignment
Master of Education
Dental Hygiene

Ritter, Josh
Instructor
Bachelor of Science
Building Construction Technology

Rivera, Martha
Instructor
Associate of Applied Science
Culinary Arts

Roach, James
Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science
Instrumentation Technology

Roberts, Samuel
Instructor
Associate of Applied Science
Electrical Lineworker & Management Technology

Robinette, Aaron
Instructor
Associates of Applied Science
Electromechanical Technology

Robinson, Justin
Instructor
Certificate of Completion
Heating Ventilation & Air Conditioning (HVAC) Technology

Rodriguez, Alfredo
Instructor
Bachelor of Science
Mechatronics Technology

Rodriguez, Andres
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Rodriguez, Carlos
Instructor
Associate of Applied Science
Aviation Maintenance Technology

Rodriguez, Frank
Instructor
Bachelor of Science
Developmental Mathematics

Rodriguez, Javier
Instructor

2026-2027 Catalog & Student Handbook

Alternative Credentialing Experiential

Wind Energy Technology

Rodriguez, Jennifer

Associate Professor

Master of Fine Arts

Art

Rodriguez, Jessica

Instructor

Bachelor of Science

Emergency Medical Services

Rodriguez, Joaquin

Instructor

Associate of Applied Science

Welding Technology

Rodriguez, Jose

Instructor

Associate of Applied Science

Welding Technology

Rodriguez, Ray

Instructor

Bachelor of Science

Building Construction Technology

Rodriguez, Rene

Instructor

Associate of Applied Science

Building Construction Technology

Rodriguez, Rosendo

Instructor

Associate of Occupational Studies

Automotive Technology

Rodriguez, Sandra

Instructor - Adjunct

2026-2027 Catalog & Student Handbook

Bachelor of Science

Associate Degree Nursing

Rogers, Darryl

Instructor

Associate of Applied Science

Building Construction Technology

Romo, Jaime

Instructor

Master of Science

Physics

Rosas, Jennifer

Instructor - Adjunct

Master of Education

Business Management Technology

Rosas, Micaela

Instructor

Master of Arts

History

Ross, Steven

Instructor

Alternate Credentialing Experiential

Electrical Lineworker & Management Technology

Rosson, Alex

Instructor

Bachelor of Applied Technology

Heating Ventilation & Air Conditioning (HVAC) Technology

Ruble, Sherri

Senior Instructor

Associate of Applied Science

Computer Networking & Systems Administration

Ruiz, Leigh

Director of Alignment

2026-2027 Catalog & Student Handbook

Bachelor of Science

Biomedical Equipment Technology

Salas, David

Instructor

Bachelor of Science

Licensed Vocational Nursing

Salazar, Norma

Instructor

Bachelor of Arts

First Year Seminar

Saldivar, Raul

Instructor

Associate of Applied Science

Welding Technology

Salinas, Christon

Instructor 9 Month

Master of Arts

Government

Salinas, Dominic

Instructor

Associate of Applied Science

Emergency Medical Services

Sanchez, David

Instructor

Bachelor of Applied Arts & Sciences

Biomedical Equipment Technology

Sanchez, Edward

Instructor

Associate of Applied Science

Welding Technology

Sanchez, Mario

Instructor

2026-2027 Catalog & Student Handbook

Certificate of Completion
Wind Energy Technology

Sanders, Aeisha
Instructor
Bachelor of Science
First Year Seminar

Sanders, Lindsay
Instructor
Bachelor of Science
Licensed Vocational Nursing

Santa Ana, Juan de dios
Instructor - Dual Credit
Certificate of Completion
Building Construction Technology

Sargent, John
Senior Instructor
Master of Arts
Architectural & Civil Drafting

Sauceda, Michael
Instructor - Adjunct
Master of Science
Licensed Vocational Nursing

Sauley, David
Instructor - Adjunct
Associate of Arts
History

Scalley, Timothy
Instructor
Associate of Applied Science
Emergency Medical Services

Schaaf, Connie
Director of Alignment

2026-2027 Catalog & Student Handbook

Master of Science

Chemical Dependency Counseling

Scheler, Carol

Senior Instructor

Bachelor of Science

Cybersecurity

Schier, Joshua

Instructor

Associate of Applied Science

Cybersecurity

Schimschat, Ronnie

Instructor

Alternative Credential Experiential

Instrumentation Technology

Schmitt, Bruce

Instructor

Associate of Applied Science

Automotive Technology

Seamanski, Jon

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Sembera, Devin

Instructor

Associate of Applied Science

Precision Machining Technology

Semmel, Travis

Instructor

Associate of Applied Science

Welding Technology

Senn, Jonathan

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Aviation Maintenance Technology

Serrato, Agapito

Instructor

Master of Science

Chemistry

Sexton, Sharon

Associate Professor

Master of Education

Psychology

Shannon, Sean

Instructor

Associate of Applied Science

Industrial Systems Technology

Sheasby, Nathan

Instructor

Vocational/Trade School Diploma

Culinary Arts

Shields, Robert

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Shorter, Linda

Senior Instructor

Associate of Applied Science

Cybersecurity

Sifuentes III, Jesus

Instructor

Certificate of Completion

Welding Technology

Silva, Elvia

Master Instructor

2026-2027 Catalog & Student Handbook

Master of Education

Business Management Technology

Simien, Joseph

Instructor

Associate of Applied Science

Heating Ventilation & Air Condition (HVAC) Technology

Simpson, Andrew

Instructor

Bachelor of Science

Aircraft Pilot Training Technology

Sims, Ashley

Director of Alignment

Bachelor of Science

Emergency Medical Services

Skinner-Creeks, Andrea

Instructor

Bachelor of Science

Occupational Safety & Environmental Compliance Technology

Skinner, Tyson

Instructor

Associate of Applied Science

Mechanical Engineering Drafting

Smith, Andy

Instructor

Alternative Credentialing Experiential -

Aviation Maintenance Technology

Smith, Bob

Instructor

Alternate Credentialing Experiential - FAA

Aircraft Pilot Training Technology

Smith, Bryson

Instructor

2026-2027 Catalog & Student Handbook

Certificate of Completion

HVAC Technology

Smith, Christopher

Instructor

Bachelor of Science

Computer Networking and Systems Administration

Smith, Jeffrey

Instructor

Alternate Credentialing Experiential - Environmental Protection Agency, Universal Technician

HVAC Technology

Smyth, Griffin

Instructor

Associate of Applied Science

Welding Technology

Snyder, Timothy

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Sobrevilla Gomez, Erasmo

Instructor

Certificate of Completion

Welding Technology

Sohran, Carlos

Instructor

Master of Arts

Architectural & Civil Drafting

Soria, Jerry

Instructor - Dual Credit

Associate of Applied Science

Diesel Equipment Technology

Sparks, Charles

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Robotics & Industrial Controls Technology

Speckels, Jim

Instructor

Master of Arts

Developmental English

Stancil, Karen

Instructor - Adjunct

Doctor of Philosophy

Biology

Stanislaw, Brandon

Instructor

Certificate of Completion

Welding Technology

Staton, Kevin

Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Steffek, Nolan

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training

Stephens, Robert

Instructor

Alternate Credentialing Experiential - Journeyman

Electrical Lineworker & Management Technology

Stevens, Karen

Associate Professor

Associate of Applied Science

Computer Networking & Systems Administration

Stewart, Heather

Instructor

2026-2027 Catalog & Student Handbook

Master of Arts

English

Stotts, Katrina

Instructor

Associate of Applied Science

Health Information Technology

Stovall, Randal

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Strange, Joseph

Instructor

Associate of Applied Science

Automotive Technology

Strunck, John

Instructor - Adjunct

Associate of Applied Science

Welding Technology

Styron, Toby

Instructor

Certificate of Completion

Electromechanical Technology

Suggs, Brandon

Instructor

Bachelor of Science

Computer Networking & Systems Administration

Suggs, Robert

Instructor

Associate of Applied Science

Diesel Equipment Technology

Sutton, Jase

Instructor

2026-2027 Catalog & Student Handbook

Master of Arts

History

Taliancich, William

Senior Instructor

Master of Arts

English

Tamez, Amanda

Instructor - 9 Month

Bachelor of Science

Developmental Mathematics

Tamez, Leo

Instructor

Certificate of Completion

Automotive Technology

Tate, Patti

Instructor

Bachelor of Applied Arts & Science

Occupational Safety & Environmental Compliance Technology

Tawney, Jarrod

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Taylor, Jason

Instructor

Bachelor of Arts

Aircraft Pilot Training Technology

Taylor, Joshua

Instructor

Associate of Applied Science

Diesel Equipment Technology

Taylor, Ryan

Instructor

2026-2027 Catalog & Student Handbook

Associate of Applied Science

Aircraft Pilot Training Technology

Tello, Benjamin

Instructor

Bachelor of Science

Aviation Maintenance Technology

Thomas, Miranda

Master Instructor

Master of Science

Biology

Thompson, Jamie

Instructor

Associate of Applied Science

Chemical Dependency Counseling

Timmons, Darin

Director of Alignment

Alternative Credentialing Experiential - Master Electrician

Electrical Construction Technology and Solar

Torres, Marcos

Instructor

Certificate of Completion

Automotive Technology

Torres, Tony

Instructor

Bachelor of Science

Web Design & Development

Toten, Seth

Instructor

Certificate of Completion

Electrical Lineworker & Management Technology

Trainor, Linda

Instructor - 9 Month

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Bachelor of Science
Developmental English

Travis, Matthew
Instructor
Alternate Credentialing Experiential
Building Construction Technology

Trevino, Jesus
Instructor
Bachelor of Science
Building Construction Technology

Trinidad, Arnold
Instructor
Alternate Credentialing Experiential - Journeyman Electrician
Electrical Power & Controls Technology

Tucker, David
Instructor
Associate of Applied Science
Instrumentation

Tull, Anthony
Instructor
Bachelor of Science
Biomedical Equipment Technology

Tull, Seth
Instructor
Associate of Applied Science
Heating, Ventilation, & Air Conditioning (HVAC) Technology

Turner, Heather
Senior Instructor
Master of Education
Developmental Math

Turner, Justin

2026-2027 Catalog & Student Handbook

Instructor

Associate of Applied Science

Culinary Arts

Tuttle, Richard

Instructor - Dual Credit

Bachelor of Science

Welding Technology

Uresti, Uzziel

Instructor

Associate of Applied Science

Welding Technology

Uribe, Luis

Instructor

Master of Science

Biology

Usery, Jacob

Director of Alignment

Bachelor of Science

Computer Networking & Systems Administration Technology

Valentine, Matthew

Instructor

Associate of Applied Science

Diesel Equipment Technology

Vancleef, Adam

Instructor

Associate of Applied Science

Instrumentation Technology

Van Demark, Adam

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Vann, Rodrick

2026-2027 Catalog & Student Handbook

Instructor

Bachelor of Science

Aviation Maintenance Technology

Vardeman, Dawson

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

Vargas, Rick

Director of Alignment

Associate of Applied Science

Building Construction Technology

Velasquez III, Bonifacio C.

Instructor

Associate of Applied Science

Precision Machining Technology

Velasquez, Domingo

Director of Alignment

Doctor of Philosophy

Occupational Safety & Environmental Compliance Technology

Venezie, Adam

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

Verzal, Mack

Instructor

Alternative Credentialing Experiential

Electrical Lineworker & Management Technology

Vetiaque, Rose-France

Instructor

Bachelor of Science

Licensed Vocational Nursing

Vidler, Douglas

2026-2027 Catalog & Student Handbook

Instructor

Associate of Applied Science

Industrial Systems Technology

Villarreal, Everardo

Director of Alignment

Master of Science

Mathematics

Vocks, Logan

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Vorderkunz, Alex

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Wagner, Greg

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Walker, Christi

Instructor - Adjunct

Master of Arts

English

Walker, Whitt

Instructor

Alternate Credentialing Experiential - Associated Builders and Contractors, AWS Structural Welding 1

Welding Technology

Walls, Kyler

Instructor

Certificate of Completion

Diesel Equipment Technology

Walters, Wade

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Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Ware, Joseph

Director of Alignment

Associate of Applied Science

Avionics Technology

Ware, Steven

Instructor

Bachelor of Science

Developmental Math

Warnasch, Craig

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Washington, Bradley

Instructor

Alternate Credentialing Experiential

Auto Collision & Management Technology

Washington, John

Associate Professor

Master of Business Administration

Computer Networking & Systems Administration

Waters, Charles

Instructor

Associate of Applied Science

Avionics Technology

Weakley, Brian

Instructor

Associate of Applied Science

Industrial Systems Technology

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Weaver, Billy

Instructor

Associate of Applied Science

Heating Ventilation & Air Conditioning (HVAC) Technology

Wells, Douglas

Instructor

Associate of Applied Science - Journeyman Electrician

Electrical Construction Technology

Werchan, Matthew

Instructor

Associate of Arts

Welding Technology

Wheeler, Eric

Instructor

Certificate of Completion

Diesel Equipment Technology

Wheelock, David

Instructor

Certificate of Completion

Wind Energy Technology

White, Anneliese

Associate Professor

Master of Arts

English

White, Kyle

Instructor

Alternate Credentialing Experiential

Diesel Equipment Technology

White, Shane

Instructor

Certificate of Completion

Heating Ventilation & Air Conditioning (HVAC) Technology

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White, Schuyler

Instructor

Alternative Credentialing Experiential - Journeyman Electrician

Electrical Construction Technology

Whitworth, Terry

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Wiersema, Joshua

Instructor

Certificate of Completion

Welding Technology

Wilfert, Mark

Instructor

Bachelor of Science

Occupational Safety & Environmental Compliance Technology

Wilkey, Jerry

Instructor

Associate of Applied Science

Industrial Systems Technology

Wilkins, Scooter

Instructor

Certificate of Completion

Welding Technology

Wilkinson, Davaun

Instructor

Certificate of Completion

Welding Technology

Williams, Anthony

Instructor

Bachelor of Science

Building Construction Technology

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Williamson, Troy

Associate Professor

Master of Arts

Philosophy

Wilmeth, Carl

Instructor

Associate of Applied Science

Welding Technology

Wilson, Donlee

Instructor

Master of Education

Industrial Systems Technology

Wimberley, Christa

Instructor

Master of Science

Biology

Wimer, Jacob

Instructor

Alternative Credentialing Experiential

Heating, Ventilation & Air Conditioning (HVAC) Technology

Winchester, Timothy

Instructor

Alternative Credentialing Experiential

Diesel Equipment Technology

Wines, David

Instructor

Bachelor of Science

Building Construction Technology

Wingate, Jenny

Instructor

Bachelor of Science

Licensed Vocational Nursing

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Withers, Paul

Senior Instructor

Associate of Applied Science

Electrical Power & Controls Technology

Wornat, William

Instructor

Certificate of Completion

Welding Technology

Wright, Atly

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Wright, Charli

Instructor

Alternative Credentialing Experiential

Welding Technology

Wyche, Sessia

Instructor

Master of Science

Mathematics

Wythe, John

Instructor

Certificate of Completion

Precision Machining Technology

York, Melissa

Instructor

Bachelor of Science

Process Operations

Young, Korban

Instructor

Associate of Applied Science

Electrical Lineworker & Management Technology

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Zaegen, Lincoln

Instructor

Alternative Credentialing Experiential - FAA

Aviation Maintenance Technology

Zavala, Juan

Instructor

Alternative Credentialing Experiential - Journeyman Lineman

Electrical Lineworker & Management Technology

Zoerner, Patrick

Instructor

Associate of Applied Science

Wind Energy Technology

15-1. Accelerated Training Soft Skills

Advanced Project Management

Provides a comprehensive overview of advanced project management principles, tools, and methodologies. Participants learn to plan, execute, monitor, and close complex projects while managing scope, time, cost, and stakeholder expectations. Covers risk management, resource allocation, and project communication best practices.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Basic Supervision (16 hours in person only)

An exploration of supervisory functions in leadership, counseling, motivation, and human skills. Students explain the role, characteristics, and skills of a supervisor. Topics covered include what it means to be a supervisor, understanding supervisory styles, emotional intelligence and supervisory relationships, and applying supervisory skills to build an action plan.

Course Hours: 16

Class Delivery Method: In Person

Price: \$500

For more information, please contact:

acceleratedtraining@tstc.edu

Basic Supervision (8 hours online only)

An exploration of supervisory functions in leadership, counseling, motivation, and human skills. Students explain the role,

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characteristics, and skills of a supervisor. Topics covered include what it means to be a supervisor, understanding supervisory styles, emotional intelligence and supervisory relationships, and applying supervisory skills to build an action plan.

Course Hours: 8

Class Delivery Method: Online

For more information, please contact:

acceleratedtraining@tstc.edu

Concepts of Total Quality Management

A practical, manufacturing-focused introduction to Total Quality Management. Drawing on the work of Deming, Juran, and Crosby, participants learn how quality is built into processes, not inspected after the fact. Topics include the cost of poor quality, Voice of the Customer, leadership and quality culture, PDCA-based problem-solving, core quality tools, root cause analysis, and strategies for sustaining continuous improvement in daily work.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Dental Office Management

Provides dental office staff and administrators with the skills needed to manage day-to-day dental practice operations. Topics include scheduling, patient communications, insurance billing, regulatory compliance, and staff coordination—designed to increase efficiency and improve the patient experience.

Course Hours: 32

Class Delivery Method: In Person or Online

Price: \$1,000

For more information, please contact:

acceleratedtraining@tstc.edu

Fundamentals of Dental Office Procedures

Covers essential administrative and clinical support procedures for dental office staff. Students become familiar with patient intake, treatment documentation, appointment management, HIPAA compliance, and dental terminology—building a strong foundation for success in a dental office setting.

Course Hours: 16

Class Delivery Method: In Person or Online

Price: \$500

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For more information, please contact:
acceleratedtraining@tstc.edu

Fundamentals of Management

Covers management functions and decision-making processes, including planning, organizing, leading, staffing, controlling, and delegation. Students describe management functions and solve problems according to contemporary management processes. Topics include what management is, the five functions of management, and decision-making.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:
acceleratedtraining@tstc.edu

General Business

Introduces participants to the essential elements of business operations. Covers business structures, functional areas (marketing, operations, HR, finance), basic economic principles, and the role of ethics in business. Ideal for employees seeking a broader understanding of the organization they work in.

Course Hours: 16

Class Delivery Method: In Person or Online

Price: \$500

For more information, please contact:
acceleratedtraining@tstc.edu

Health IT Leadership

Designed for healthcare professionals moving into or expanding within leadership roles in health information technology. Topics include health IT systems, data governance, regulatory requirements, team leadership in clinical environments, and the effective use of technology to improve patient outcomes and operational efficiency.

Course Hours: 32

Class Delivery Method: In Person or Online

For more information, please contact:
acceleratedtraining@tstc.edu

Intermediate Presentation Graphics Software

Builds on basic presentation skills using software tools such as Microsoft PowerPoint. Participants learn to design professional slide decks using advanced formatting, animations, charts and multimedia elements. Emphasis is placed on creating visually compelling, audience-appropriate presentations that communicate clearly.

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Course Hours: 16

Class Delivery Method: In Person or Online

Price: \$500

For more information, please contact:

acceleratedtraining@tstc.edu

Intermediate Spreadsheets I

Instruction in moving and copying cell contents; sorting; mathematical, statistical, and financial functions; date and time arithmetic; report generation; and built-in graphics support. Topics include advanced formatting techniques, data management with tables and named ranges, advanced functions and formulas, sorting and filtering with subtotals, PivotTables and PivotCharts, basic macros and automation tools, and workbook efficiency and troubleshooting.

Course Hours: 16

Class Delivery Method: In Person or Online

Price: \$500

For more information, please contact:

acceleratedtraining@tstc.edu

Introduction to Customer Service

Develops the foundational customer service skills needed to deliver positive experiences across industries. Participants learn communication techniques, active listening, handling difficult customers, and strategies to build loyalty. Emphasis is placed on professionalism, empathy, and service recovery.

Course Hours: 8

Class Delivery Method: In Person or Online

For more information, please contact:

acceleratedtraining@tstc.edu

Introduction to Presentation Software

Introduces participants to the basics of creating presentations using software such as Microsoft PowerPoint. Students learn to build, format, and deliver slide-based presentations. Topics include adding text, images, and transitions; organizing content for impact; and presenting with confidence.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

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Introduction to Project Management

Provides an accessible entry point into project management. Participants learn the core concepts, vocabulary, and lifecycle of a project, including initiation, planning, execution, monitoring, and closure. Ideal for employees who support or participate in projects but have no formal PM training.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Introduction to Spreadsheets

Covers the concepts, procedures, and applications of electronic spreadsheets. Students define spreadsheet terminology and concepts, create formulas and functions, use formatting features, and generate charts, graphs, and reports. Topics include basic data validation and protection, printing and page setup, advanced formatting techniques, and data management with tables and named ranges.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Introduction to the Internet

Introduces participants to the fundamentals of using the internet in a professional setting. Topics include navigating browsers, conducting effective online research, using email, understanding best practices for online security, and leveraging web-based tools for workplace productivity.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

IT Project Management

Applies project management principles to IT-specific initiatives and environments. Participants learn to define project scope, manage timelines, coordinate technical teams, and communicate status updates to stakeholders. Topics include Agile and Waterfall methodologies, risk management, and tools commonly used in IT project workflows.

Course Hours: 8

Class Delivery Method: In Person or Online

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Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Leadership Skills for Supervisor/Managers

Introduces the concepts and skills of leadership in the work setting. Participants explore leadership and motivational theories, examine a range of leadership styles, and learn to evaluate leadership performance. By the end of the course, participants can describe leadership styles, apply leadership theories, and demonstrate effective communication strategies.

Course Hours: 8

Class Delivery Method: In Person or Online

For more information, please contact:

acceleratedtraining@tstc.edu

Office Management

Provides administrative professionals and office managers with the knowledge and tools needed to run an efficient, productive office. Topics include workflow coordination, scheduling, records management, vendor relationships, budget oversight, and leading administrative support teams.

Course Hours: 16

Class Delivery Method: In Person or Online

Price: \$500

For more information, please contact:

acceleratedtraining@tstc.edu

Professionalism in Workplace

Develops entry-level workforce readiness skills with a focus on professionalism, interpersonal communication, workplace civility, and employability. Participants identify attitudes and values that support effective work habits, demonstrate how to work as part of a team, exhibit business etiquette and workplace ethics, and identify appropriate professional attire.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Team Building in the Workplace

Covers the principles of building and sustaining effective teams in organizations. Topics include team dynamics, process improvement, trust and collaboration, conflict resolution, and the role of the individual within the team. Participants

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describe team-building principles, identify interpersonal skills and group dynamics, and demonstrate techniques for team problem-solving and conflict resolution.

Course Hours: 8

Class Delivery Method: Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Team Building in the Workplace (16 hours in person only)

Covers the principles of building and sustaining effective teams in organizations. Topics include team dynamics, process improvement, trust and collaboration, conflict resolution, and the individual's role within the team. Participants describe team-building principles, identify interpersonal skills and group dynamics, and demonstrate techniques for team problem-solving and conflict resolution.

Course Hours: 16

Class Delivery Method: In Person

Price: \$500

Word Processing Applications I

Introduces participants to the fundamentals of word processing in a professional setting. Students learn essential terminology, editing functions, and formatting techniques to create polished, professional documents. Topics include document creation and editing, text formatting and styling, special text options, and basic document management, building a strong foundation for workplace productivity.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

Word Processing Applications II

Advances participants' word-processing abilities through intermediate and advanced features. Topics include working with styles and templates, creating and formatting tables, using mail merge, collaborating with tracked changes and comments, and producing polished, professional documents for workplace use.

Course Hours: 8

Class Delivery Method: In Person or Online

Price: \$250

For more information, please contact:

acceleratedtraining@tstc.edu

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Workforce Development with Critical Thinking

Equips employees and leaders with the critical thinking skills needed to navigate complex workplace challenges. Participants learn to analyze information objectively, question assumptions, evaluate evidence, and apply structured reasoning to decision-making, problem-solving, and continuous workforce development initiatives.

Course Hours: 16

Class Delivery Method: In Person or Online

For more information, please contact:

acceleratedtraining@tstc.edu

Workplace Communications

Develops communication skills as applied to individuals and groups in the workplace. Topics include listening, writing, and verbal and nonverbal communication. Participants identify their communication style and demonstrate practical skills in listening, writing, and both verbal and non-verbal communication across workplace settings.

Course Hours: 8

Class Delivery Method: In Person or Online

For more information, please contact:

acceleratedtraining@tstc.edu

Workplace Critical Thinking and Problem Solving

Emphasizes structured approaches to critical thinking and problem-solving through interpreting data and recommending corrective action. Participants describe critical thinking and problem-solving theories, identify analytical and systems-based tools, and define methods to improve workplace productivity and profitability.

Course Hours: 8

Class Delivery Method: In Person or Online

For more information, please contact:

acceleratedtraining@tstc.edu

15. Accelerated Training Solutions

Automotive Service Technician

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- CLASS DELIVERY: In Person
- CLASS DURATION: 176 Hours
- CLASS SIZE: 10-15

Course Description

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific. Utilize appropriate safety procedures; describe historical development and career information of the automotive industry; demonstrate safe, professional and responsible work practices; demonstrate the proper use of shop equipment and tools; describe the eight Automotive Service Excellence (ASE) vehicle subsystems; use service information and perform basic automotive maintenance.



Campus Location(s): Harlingen

Credentials: Automotive Service Excellence (ASE), TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Aviation Structural Assembly

- CLASS DELIVERY: In Person
- CLASS DURATION: 480 hours
- CLASS SIZE: 15-25

Course Description

The aviation structural assembly course offers trainees the opportunity to enter the high-tech aerospace sector with no specific prerequisites. It challenges them to present a winning attitude and develop mechanical dexterity and sound logic skills.

Topics include:

- Shop safety
- Blueprint reading
- Conventional rivets
- Blind rivets
- Bolts
- Safety devices
- Hi-lites
- Jo-bolts
- Chemical conversion
- Electrical bonding



Campus Location(s): North Texas

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Credentials: Snap-On Sheet Metal Industry Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Basic Electrical Theory

The AC/DC Electrical course teaches fundamentals of AC/DC electrical systems used for power and controls in industrial, commercial, agricultural and residential applications. Students learn industry-relevant skills included in subject areas such as basic electrical circuits, electrical measurements, circuit analysis, inductance and capacitance, combination circuits and transformers. This course supports the SACA Core Micro-Credential Standard C-201. This course uses the Amatrol Trainer 990-ACDC1.

Modules included in the course:

- Basic Electrical Circuits
- Electrical Measurements
- Circuit Analysis
- Inductance and Capacitance
- Combination Circuits
- Transformers
- Fire and Electrical Safety
- Types of PPE
- Grounding Control Systems



Program Information:

Prerequisite: Pre-course assessment evaluation (Recommended)

Course: Amatrol V11133-AA00UEN-E1 - AC/DC Electrical Systems (990-ACDC1)

Program Total: 48 hours

For more information, please contact:

acceleratedtraining@tstc.edu

Carpentry Program

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- CLASS DELIVERY: In Person
- CLASS DURATION: 262 Hours
- CLASS SIZE: 8-12

Carpenters make up the largest building trades occupation in the industry, and those with all-around skills are in high demand. Carpenters are involved in many different kinds of construction activities, from building highways and bridges to installing kitchen cabinets. Carpenters construct, erect, install, and repair structures and fixtures made from wood and other materials.



NCCER Core (77.5 hours)

The NCCER Core Curriculum is a prerequisite and foundation to all other Level 1 craft curriculum.

Its modules cover topics such as basic safety, communication skills and introduction to construction drawings. Completing this curriculum gives the trainee the basic skills needed to continue education in any craft area he or she chooses.

NCCER Carpentry Level 1 (162.5 hours)

An introduction to the carpentry trade, including safety, tools, equipment, terminology, and methods.

Knowledge and skills required to erect wood frame structures, with emphasis on layout and construction of floors, walls and roofs. Includes safety procedures for using hand and power tools and structural materials.

Safety Component (10 hours)

OSHA General Industry/Construction Safety and Health provides an introduction to specific training techniques involving the safe handling of blood and air-borne pathogens, as well as general safety and security on the premises. Addresses the right to know and MSDS. Outlines Occupational Safety and Health Administration (OSHA) regulations, inspections, penalties and compliance. Upon completion, the trainee will be able to:

- Demonstrate proficiency in handling critical and safety situations.
- Explain the importance of performing tasks safely and correctly.
- Maintain a situation in compliance with OSHA regulations.

Forklift Component (12 hours)

- Safety awareness, components identification and field driving exercises.
- Analyzing hydraulic and electrical components and safety precautions.
- Discussion of preventing maintenance and basic repairs.
- Variety of exercises, lifting techniques and additional criteria evaluation such as surface conditions.
- Successfully demonstrate maneuvering exercises around a simulated obstacle course.

Campus Location(s): All

Credentials: NCCER Core Certification, NCCER Carpentry Level I Craft Certification, OSHA 10, Forklift

Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Certified Cable Wiring Systems Installer

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- CLASS DELIVERY: In Person and Online
- CLASS DURATION: 24 Hours In Person and 24 Hours Online
- CLASS SIZE: 8-10

This course is for those who design, install or maintain copper and fiber optic systems in commercial buildings and other facilities. It identifies the student as an inside plant installer who demonstrates a practical knowledge of the copper and fiber optic theories, codes, standards, and practices widely accepted in commercial buildings and customer-owned outside plants (campus environments).

In addition, this inside plant training incorporates hands-on training of copper and fiber terminations, cable preparations, installation practices, and certification testing procedures. Students will learn skills applicable to all of the functions required to safely and competently install advanced copper and fiber communications cabling. All procedures and practices are based on the latest EIA/TIA commercial building cabling standards.



This course will allow students to:

- Understand how to assemble, wire and test various commercial building cabling systems.
- Understand the EIA/TIA standards for advanced inside plant copper cabling systems.
- Understand the EIA/TIA commercial building cabling standards as they pertain to advanced fiber and copper cabling systems.
- Understand advanced copper and fiber testing procedures.
- Understand distance limitations and performance issues and how to test these measurable properties pertaining to copper and fiber media.
- Demonstrate basic skills needed to assemble, wire and test various commercial building and inside plant cabling systems, including advanced laser-optimized fiber optic cabling systems.

For more information, please contact:

acceleratedtraining@tstc.edu

Certified Fiber Optics Installer

- CLASS DELIVERY: In Person and Online
- CLASS DURATION: 16 Hours
- CLASS SIZE: Minimum of 10

This course is designed for those who lay out, install or maintain fiber-optic cabling systems. It identifies the student as a fiber optics installer able to demonstrate a practical knowledge of fiber-optic theory, codes, standards, and practices widely accepted in the fiber optics industry. In addition, this training incorporates two days of individual hands-on training validating fiber optics installer skills, including fiber terminations, cable preparations, fusion splicing optical time-domain reflectometer (OTDR) and optical loss testing. These skills are applicable to all the requirements to safely and competently install, maintain and test fiber-optic cabling systems.



Certified Fiber Optics Installer training will provide the student with the necessary knowledge and skills to:

- Lay out, install or maintain fiber optic cabling systems.
- Demonstrate a practical knowledge of fiber optic theory, codes, standards, and installation practices.

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- Demonstrate a practical knowledge of individual hands-on skills, including:
 - Performing industry-standard fiber optic terminations.
 - Preparing cables for inside and outside applications.
 - Performing fusion splicing and splice tray preparation.
 - Testing with the OTDR and optical loss test equipment.

Credentials: Fiber Optics Technician Certification, TSTC Certification of Completion

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Certified Logistics Technician

- CLASS DELIVERY: Online
- CLASS DURATION: 108 hours
- CLASS SIZE: 8-25

Course Description

CLT is a nationally portable, industry-led program that prepares individuals for front-line material handling and supply chain logistics jobs in fulfillment centers, warehouses, distribution centers, and factories. This online training program includes a stackable certification for employees with the 21st century, in-demand skills needed for long-term career paths in more than 6.2 million supply chain logistics jobs.

The curriculum is designed to provide students with mid-level technical knowledge of the world of supply chain logistics. This course covers the material handling aspect of the global supply chain and describes the mid-level technical knowledge that front-line material handling workers should master to perform well. It is designed to give students a more practical insight into the industry and how the frontline worker fits into that environment.



Campus Location(s): Online

Credentials: MSSC Certified Logistics Technician 4.0 Certification, TSTC Certificate of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Certified Medical Office Manager (CMOM)®

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- CLASS DELIVERY: Online
- CLASS DURATION: 18 Hours

Includes assessment.

Practice Management

- Review of practice administration roles and responsibilities
- Facility, operational and time management
- Employee relations, laws and guidelines
- Employee handbook and business policies
- Administration of medical records and patient relations
- Labor regulations and reporting requirements
- Terminating the patient/provider relationship



Personnel Management

- Creating effective job descriptions, interviewing and hiring tips
- Team building and managing conflicts
- Handling staff grievances, evaluations and performance issues
- Compensation and benefits packages to attract talent and minimize turnover
- Proper maintenance of employee personnel files (e.g. Form I-9)
- Goal setting and conducting effective staff meetings
- Termination procedures and the exit interview

Financial Management

- Budget planning, cost analysis and forecasting
- Examining contracts and fee schedule
- Patient education, verification and collections procedures
- Financial reporting, calculations and controls
- Developing and maintaining a budget
- Revenue and cost accounting

Compliance Requirements

- MACRA and the Quality Payment Program
- HIPAA and OSHA compliance
- Implementing the OIG's recommended compliance program
- Policies and procedures that inhibit fraud/abuse
- Identifying and controlling the risk of medical identity theft
- Legal protections and risk management guidelines

Managed Care Delivery System

- Physician credentialing and privileging
- Contract evaluation and negotiation
- Calculating the right patient-payer mix for your office
- Physician Utilization Committee review process
- Utilization review procedures and the PUC
- HMO, IPA, MSO, PPO definition, purpose and analysis
- Assigning an internal managed care coordinator
- Health insurance exchanges
- Value-based care models and quality metrics

Campus Location(s): Online

Cost: \$1,099

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Credentials: TSTC Certificate of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Certified Nurse Assistant (CNA)

The CNA program is designed to ensure the successful certification of the CNA student, by preparing the student in providing optimal patient care. The TSTC Accelerated Training department collaborates with the medical industry to ensure the program exceeds standards and expectations. CNA students are prepared with the knowledge, skills, abilities, professionalism, team work and ethics to succeed and grow. Students should anticipate a course that is rigorous and fast paced. Students will complete 60 hours of lecture and skills practice (labs) and assignments. In addition, students will complete 40 hours of clinicals at local facilities. After successful completion of the program, students are registered to take the NNAAP Examination, which consists of a written and hands-on skills test.

Supplies and Books

The program provides textbooks, student workbooks and lab consumables. Students are required to purchase a few items: scrubs, stethoscope, a secondhand watch and appropriate shoes. Attendance is strictly monitored and students are required to make the commitment up front.

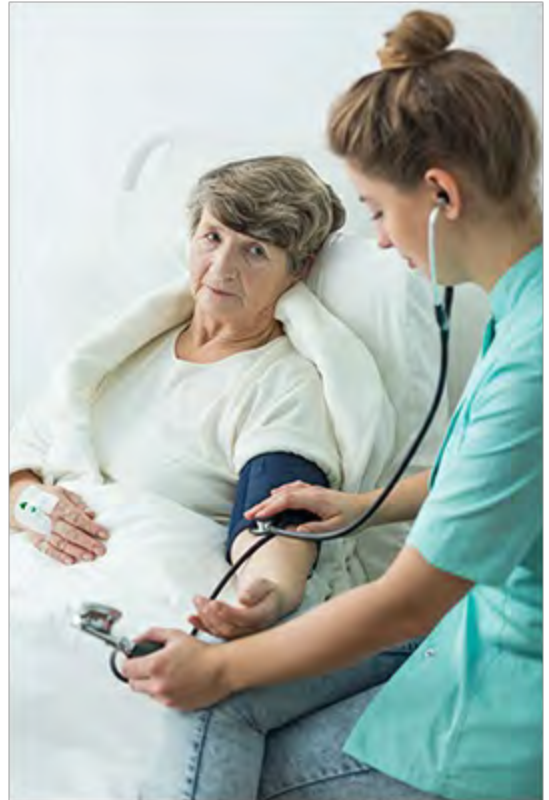
Program Information

Course: NURA 1001 - CNA

Program total: 100 hours

For more information, please contact:

acceleratedtraining@tstc.edu



Certified Production Technician

- CLASS DELIVERY: In Person and Online
- CLASS DURATION: 150 Hours
- CLASS SIZE: 8-15

This MSSC certified training is offered in-person and online. Virtual training is enhanced by using Oculus virtual reality headsets to demonstrate hands-on job training simulations. This training will also seek to provide participants with career guidance and connections to manufacturers and allow for a strategic shift to prioritize high-skilled, hands-on learning for in-person training while expanding current reach to the broader military veteran population with foundational training.

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Learning outcomes/objectives are determined by local occupational needs and business and industry trends.



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Student learning outcomes include:

- Communicate effectively.
- Integrate technology.
- Learn effectively - use academics effectively.
- Demonstrate cooperative/teamwork skills.
- Apply safety in the workplace.
- Think critically and creatively.
- Demonstrate responsible work ethics.

Program outcomes include:

- Apply safe and productive practices in the workplace.
- Utilize quality control practices to meet production standards.
- Implement manufacturing processes and production methods.
- Recognize potential maintenance issues with production equipment.

Campus Location(s): All/Online

Credentials: MSSC Certified Production Technician Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Commercial Driver's License

- CLASS DELIVERY: In Person
- CLASS DURATION: 160 Hours
- CLASS SIZE: Up to 6 Students per Truck

Overview of the State of Texas Class A Commercial Driver's License written test. Includes preparation for mastery of the Commercial Driver's License written examination, general truck-driving skills with hands-on component, and instruction coordinated with the Department of Transportation. The Abilene, Brownwood, Harlingen, Fort Bend County, Marshall and Waco locations are third-party examining sites.

Students completing this training will be able to:

- Describe basic inspection and testing techniques used for a pre-trip inspection.
- Describe basic air brakes inspection and test.
- Demonstrate proper shifting, double clutching, backing skills, coupling and uncoupling, and yard skills.
- Understand and pass commercial rules, general knowledge, combination and air brakes exams.
- Upon passing the course (70%), each student will receive a certificate of completion and obtain their Commercial Driver's License.



Prerequisites: Be at least 18 years of age, valid Class C Driver's License, obtain a Type-3 driving record, pass a DOT physical and drug screen as required by the Department of Transportation.

Campus Location(s): Abilene*, Brownwood*, Fort Bend County*, Harlingen*, Marshall*, Sweetwater and Waco*

* Current DPS approved testing sites

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Cost: \$4,500

Credentials: Commercial Driver's License, TSTC Certification of Completion

For more information, please contact:
transportationtraining@tstc.edu

Computer Numerical Control Machining

- CLASS DELIVERY: In Person
- CLASS DURATION: 160 hours
- CLASS SIZE: 10-15

Course Description

This course provides an exploration of the basics in machining, raw materials, use of hand tools, safety, and maintenance. Topics include an overview of measurement techniques, materials, safety, machine tool math, quality control, and maintenance. Teamwork, critical thinking and problem solving are emphasized. Hands-on experience and practical applications are included.

Campus Location(s): Abilene, Breckenridge



Credentials: National Institute for Metalworking Skills Certifications, TSTC Certificate of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Electrical Motor Control Systems

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

Prepares individuals to connect, adjust and operate electrical motor control circuits using these electrical components: 3-phase AC motors, reversing magnetic motor starters with overloads, drum switches, control relays, timer relays, pushbutton switches, selector switches, limit switches, pressure switches and float switches. Other key skills include adhering to motor control safety rules, reading ladder logic circuit diagrams, checking for proper ground connections, wiring motors for high and low voltage and interpreting common motor control application circuits. This course supports the SACA Micro-Credential C-202.



Modules included in the course:

- Introduction to Electrical Motor Control

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- Manual Motor Control and Overload Protection
- Control Transformers
- Control Ladder Logic
- Control Relays and Motor Starters
- Reversing Motor Control
- Automatic Input Devices
- Basic Timer Control

Campus Location(s): All

Credentials: SACA Micro-Credential C-202 Electric Motor Control Systems 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Electrical Program

- CLASS DELIVERY: In Person
- CLASS DURATION: 219 hours
- CLASS SIZE: 8-12

Electricians install electrical systems, wiring and other electrical components, as well as following blueprints and conforming to national, state and local codes.

NCCER Core (72.5 hours)

The NCCER Core Curriculum is a prerequisite and foundation to all other Level 1 craft curriculum. Its modules cover topics such as basic safety, communication skills and introduction to construction drawings. Completing this curriculum gives the trainee the basic skills needed to continue education in any craft area he or she chooses.



NCCER Electrical Level 1 (112.5 hours)

Presentation of the theory of residential electric circuits. Topics include load calculations and safety in electrical work, installation of wiring, load protection, ground fault and other devices commonly used in 110-volt household applications.

Safety Component (10 hours)

OSHA General Industry/Construction Safety and Health provides an introduction to specific training techniques involving the safe handling of blood- and air-borne pathogens, as well as general safety and security on the premises. Addresses the right to know and MSDS. Outlines Occupational Safety and Health Administration (OSHA) regulations, inspections, penalties and compliance. The trainee will be able to:

- Demonstrate proficiency in handling critical and safety situations.
- Explain the importance of performing tasks safely and correctly.
- Maintain a situation in compliance with OSHA regulations.

Forklift Component (12 hours)

- Safety awareness, components identification and field driving exercises.
- Analyzing hydraulic and electrical components and safety precautions.
- Discussion of preventing maintenance and basic repairs.
- Variety of exercises, lifting techniques and additional criteria evaluation, such as surface conditions.

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- Successfully demonstrate maneuvering exercises around a simulated obstacle course.

CPR/AED/First Aid (12 hours)

- Lifesaving skills of respiratory (choking and near-drowning) and cardiac emergencies involving adults, children and infants. Automated External Defibrillator inclusive. Instruction in first aid for injured and ill persons. Students will discuss and demonstrate assessment and management of injured and/or ill persons as recommended by the certifying agency. Students must meet requirements as specified by the certifying agency. Show proficiency according to current guidelines of the credentialing agency. Lab is required. Upon successful completion of the course, students will receive a certification card.
- Licensure/Certification Agency: American Heart Association, American Safety and Health Institute, National Safety Council.

Campus Location(s): All

Credentials: NCCER Core Certification, NCCER Electrical Level I Craft Certification, OSHA 10, CPR/AED/First Aid, Forklift Certification, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Electrical System Installation

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

Prepares individuals to install and test/commission electrical motor control circuits using these electrical components: control cabinet enclosures, 3-phase AC motors, reversing magnetic motor starters with overloads, control relays, timer relays, pushbutton switches, selector switches, limit switches, pressure switches, indicators, electro-pneumatic solenoid valves, safety disconnect switches, and circuit protection.

Key skills taught are: adhering to motor control installation safety rules, using proper PPE, reading electrical wiring installation diagrams, sizing circuit protection, installing components on DIN rails and cabinet panels, installing and testing ground systems, wiring motors for high and low voltage, selecting and preparing wire for installation, attaching of wire to terminal strips and components/motors, and routing of wire with raceways/conduits. This course supports the SACA Micro-Credential C-206.



Modules included in the course:

- Introduction to Electrical Control Wiring
- Panel Wiring Fundamentals
- Grounding Control Systems
- Connecting Wires in Panels
- Wiring a Motor
- Electro-Pneumatic Valves
- Electro-Pneumatic System Installation

Campus Location(s): All

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Credentials: SACA Micro-Credential C-206 Electrical System Installation 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Electrical System Installation

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

Prepares individuals to install and test/commission electrical motor control circuits using these electrical components: control cabinet enclosures, 3-phase AC motors, reversing magnetic motor starters with overloads, control relays, timer relays, pushbutton switches, selector switches, limit switches, pressure switches, indicators, electro-pneumatic solenoid valves, safety disconnect switches and circuit protection. Key skills taught are: adhering to motor control installation safety rules, using proper PPE, reading electrical wiring installation diagrams, sizing circuit protection, installing components on DIN rails and cabinet panels, installing and testing ground systems, wiring motors for high and low voltage, selecting and preparing wire for installation, attaching of wire to terminal strips and components/motors and routing of wire with raceways/conduits. This course supports the SACA Micro-Credential C-206.



Modules included in the course:

- Introduction to Electrical Control Wiring
- Panel Wiring Fundamentals
- Grounding Control Systems
- Connecting Wires in Panels
- Wiring a Motor
- Electro-Pneumatic Valves
- Electro-Pneumatic System Installation

Campus Location(s): All

Credentials: SACA Micro-Credential C-206 Electrical System Installation 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Electrical Systems (Operation)

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- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 48 Hours
- CLASS SIZE: 8-12

Prepares individuals to connect, adjust, operate, troubleshoot, and analyze electrical circuits using basic electrical components, including resistors, capacitors, inductors, DC motors, solenoids, manual switches, relays, fuses, circuit breakers, transformers, and indicators. Other key skills include: adhering to electrical safety rules, reading electrical circuit diagrams, applying Ohm's law and Kirchhoff's law, using digital multimeters, interpreting series/parallel circuits, and assessing power/circuit protection. This course supports the SACA Micro-Credential C-201.



Modules included in the course are:

- Basic Electrical Circuits
- Electrical Measurements
- Circuit Analysis
- Inductance and Capacitance
- Combination Circuits
- Transformers

Campus Location(s): All

Credentials: SACA Micro-Credential C-201 Electrical Systems 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

FAST Trac Airframe & Powerplant

- CLASS DELIVERY: In Person
- CLASS DURATION: 160 Hours
- CLASS SIZE: 10-16

The Texas State Technical College FAST Trac Airframe and Powerplant program was developed to prepare veterans, active service personnel and civilian trainees to become well-rounded airframe and powerplant technicians with upward mobility potential. The curriculum is designed for experienced technicians and serves as a refresher program of study around FAA-required curriculum.



Students will focus on the study of Federal Aviation Administration (FAA) subject matter in the general, airframe and powerplant curricula with a focus on building knowledge of new materials, techniques and physical skills. This program is designed to refresh the knowledge and skills not provided by civilian or military training. Through hands-on labs, students will gain the experience that is required to obtain the Civilian Aviation Maintenance Technician certificate.

General and Airframe

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Study of FAA subject matter in the general and airframe curricula with a focus on building knowledge of new materials, techniques and physical skills. This training is designed to provide the knowledge and skills not provided by civilian or military training and experience that is required to obtain the Civilian Aviation Maintenance Technician certificate. Upon completion of this course, students will be able to:

- Weigh aircraft, perform weight and balance checks, and record data and information derived from weight and balance checks.
- Write descriptions of work performed, including aircraft discrepancies, corrective actions using typical aircraft maintenance records and required maintenance forms, records and inspection reports.
- Apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, related FAA regulations, airworthiness directives and advisory material.
- Analyze technical data and exercise mechanic privileges within the prescribed limitations.
- Perform precision measurement procedures, identify and select nondestructive testing methods, perform nondestructive testing and heat-treating procedures, identify and select aircraft hardware and materials, fabricate and install fluid lines and fittings and inspect welds.
- Identify principles of basic aerodynamics, identify design principles of aircraft structures and describe the theory of flight.
- Start, ground operate, move, service and secure aircraft, identify typical ground operation hazards and safety, inspect, identify, and remove and treat aircraft corrosion.
- Calculate and measure electrical power, voltage, current, resistance and continuity, determine the relationship of voltage, current and resistance in electrical circuits, interpret aircraft electrical circuit diagrams, including solid-state devices and logic functions, inspect and service batteries.
- Repair and inspect aircraft electrical systems components; install, check and service airframe electrical wiring, controls, switches, indicators and protective devices; and inspect, check, troubleshoot, service and repair alternating- and direct-current electrical systems.
- Inspect, check, troubleshoot, service and repair heating, cooling, air conditioning, oxygen and pressurization systems and air cycle machines, airframe ice and rain control systems, smoke and carbon monoxide detection systems, and aircraft fire detection and extinguishing systems.
- Inspect, check, service, troubleshoot and repair aircraft fuel and management systems, fuel quantity-indicating systems, and hydraulic and pneumatic systems, and identify and select hydraulic fluids.
- Inspect, service and repair landing gear, retraction systems, shock struts, brakes, wheels, tires and steering systems, and service landing-gear systems.
- Select, install and remove special fasteners for metallic structures, inspect and repair sheet metal structures, install conventional rivets, form, lay out and bend sheet metal.
- Perform airframe conformity and airworthiness inspections.
- Rig fixed-wing aircraft; balance, rig and inspect movable primary and secondary flight control surfaces; and jack aircraft.

Powerplant

Study of FAA subject matter in the General and Powerplant curricula with a focus on building knowledge of new materials, techniques and physical skills. This training is designed to provide the knowledge and skills not provided by civilian or military training and experience that is required to obtain the Civilian Aviation Maintenance Technician certificate. Upon completion of this course, students will be able to:

- Weigh aircraft, perform weight and balance checks, and record data and information derived from weight and balance checks.
- Write descriptions of work performed, including aircraft discrepancies, corrective actions using typical aircraft maintenance records and required maintenance forms, records and inspection reports.
- Apply information contained in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, related FAA regulations, airworthiness directives and advisory material.
- Analyze technical data and exercise mechanic privileges within the prescribed limitations.
- Perform precision measurement procedures, identify and select nondestructive testing methods, perform nondestructive testing and heat-treating procedures, identify and select aircraft hardware and materials, fabricate and install fluid lines and fittings and inspect welds.
- Identify principles of basic aerodynamics, identify design principles of aircraft structures and describe the theory of flight.
- Start, ground, operate, move, service and secure aircraft, identify typical ground operation hazards and safety, inspect, identify, and remove and treat aircraft corrosion.
- Calculate and measure electrical power, voltage, current, resistance and continuity, determine the relationship of voltage, current and resistance in electrical circuits, interpret aircraft electrical circuit diagrams, including solid-state devices and logic functions, and inspect and service batteries.
- Inspect, check, service and repair propeller synchronizing systems, ice control systems, fixed-pitch, constant-speed and feathering propellers and propeller governing systems, and repair aluminum alloy propeller blades.
- Identify the components of a reciprocating engine, inspect, troubleshoot, check, service and repair engine instrument systems, inspect, service and repair lubrication and exhaust systems.
- Maintain powerplant electrical systems and components, maintain powerplant ignition, starting and fire protection systems.

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- Inspect, check, service, troubleshoot and repair engine fuel systems and components, fuel metering systems and components, reciprocating and turbine engine fuel metering systems, engine ice and rain control systems, heat exchangers, superchargers, turbine engine airflow and temperature control systems.
- Overhaul reciprocating engines; inspect, check, service and repair reciprocating engines and engine installations.
- Overhaul turbine engines; inspect, check and repair turbine engines.
- Perform powerplant conformity inspections and powerplant airworthiness inspections.

FAA authorization to take General and Airframe, General and Powerplant, or General, Airframe and Powerplant written, oral and practical exams.

Campus Location(s): Abilene (Harlingen and Waco capable)

Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

FAST Trac Dental Assistant

- CLASS DELIVERY: In Person
- CLASS DURATION: 100 Hours
- CLASS SIZE: 10-16

The purpose of this program is to familiarize students with all areas of administrative and clinical dental assisting, focusing on the responsibilities required to function as an assistant in a dental practice. This course covers the following key areas and topics:

- Introduction to the dental office and history of dentistry and dental assisting.
- Legal aspects of dentistry, including policies and guidelines.
- Introductory oral anatomy, dental operations and dental equipment.
- Introductory tooth structure, including primary and permanent teeth.
- The oral-related structures.
- Dental handpieces, sterilization and other areas.



Tuition Includes:

- Textbooks
- TSBDE Exam Fee and Proctoring
- CPR Certification Course
- Clinical Externship Placement (40 hours)

Tuition Does Not Include:

- DANB-RHS/ICE Exam Fees
- Immunizations
- Background Check
- Scrubs (Required)

NOTE: Enrolled students transferring out of state are eligible for the online course with clinical externship placement. Outside of Texas, most states and employers require DANB-RHS/ICE certification. The cost for taking the RHS and ICE exams together is \$375.

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Campus Location(s): Abilene and Harlingen

Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

FAST Trac Welding (GMAW & FCAW)

- CLASS DELIVERY: In Person
- CLASS DURATION: 160 Hours
- CLASS SIZE: 10-25

The Welding program is a 160 clock-hour program that provides both didactic and experiential learning in fillet and groove welds 2F-4F and 2G-4G (GMAW & FCAW).

This course is designed to instruct welding and safety guidelines using the Flux Core Arc Welding process and Gas Metal Arc Welding process on carbon plates for fillet welds and groove welds.

It teaches the basics and intermediate of the craft. Students start with safety, cutting, grinding and GMAW & FCAW welding on carbon steel for fillet welds. In addition, students will culminate their ability to weld in three positions (horizontal, vertical and overhead).



Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

FAST Trac Wind Energy Technician

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- CLASS DELIVERY: In Person
- CLASS DURATION: 296 Hours
- CLASS SIZE: 10-16

The FAST Trac Wind Energy Technician program prepares students for an entry level position in the high-growth wind industry. This fast-paced, 10-week program will provide you with the knowledge and certifications needed to work in the wind industry. Students will learn the essential skills through classroom and lab exercises that are required of entry level wind technicians. Students should be prepared for a course that is rigorous and fast paced. After successful completion of the Certified Electronics Technician Associate section, students will be registered to take the CET(a) Examination. Successful completion of the exam will provide students with an industry recognized certification as well as nine credit hours that can be applied toward an associate degree at Texas State Technical College.

Courses include:

- CETT 1003 - DC Circuits (48 hours)
- TECM1003 - Technical Calculations (48 hours)
- WIND 1000 - Introduction to Wind Energy (32 hours)
- WIND 1002 - Wind Safety (16 hours)
- CETT 1005 - AC Circuits (48 hours)
- CETT 1025 - Digital Fundamentals (48 hours)
- ELMT 1005 - Basic Fluid Power (8 hours)
- ELMT 2035 - Certified Electronics Technician Training (48 hours)

Campus Location(s): Abilene, Breckenridge, Brownwood, Harlingen and Sweetwater

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu



Fiber Optic Broadband Technician

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 105 Hours
- CLASS SIZE: 8-10

This course provides information on the standards, describes materials, methods and verification criteria for producing high-quality entry level technician in broadband fields of fiber optics and categories five and six network cabling. Basic electricity and safety, data communications basics, definitions, symbols and abbreviations; cable construction and types, cable performance characteristics, cabling standards, basic network topologies, basic network architectures, National Electrical Code (NEC®), cabling system components, DCIC installation tools, connectors and outlets; cabling system design, cabling installation, connector installation, cabling testing and certification, cabling troubleshooting and documentation are covered. A fiber optics installer is proficient in the installation of connectors on various types of fiber-optic cables using multiple types of connectors and can perform mechanical and fusion splicing.



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Modules included in the course:

- What is Structural Wiring
- Which Standards Apply
- LAN topology
- Cat 5e and Cat 6 Systems
- Fiber Optic Connectivity
- Installation Technics
- Fiber Optic Splicing
- Cable Termination
- Fiber Optic Certification
- System Testing

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Forklift Training

- CLASS DELIVERY: In Person
- CLASS DURATION: 8 hours
- CLASS SIZE: 8-12

The Forklift Operator program will provide you with hands-on training as a forklift operator and teach you safe practices for the workplace. Training can lead to positions in construction, logistics or manufacturing.

Modules included in the course:

- Introduction
- Principles of Stability
- Pre-operational Safety Check
- Safety Operating Procedures
- Propane, Gasoline and Diesel Refueling
- Battery Care and Recharging
- Operator Exam and Practical Test

Campus Location(s): All

Credentials: Forklift Operator Certification, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu



Geometric Dimensioning and Tolerancing

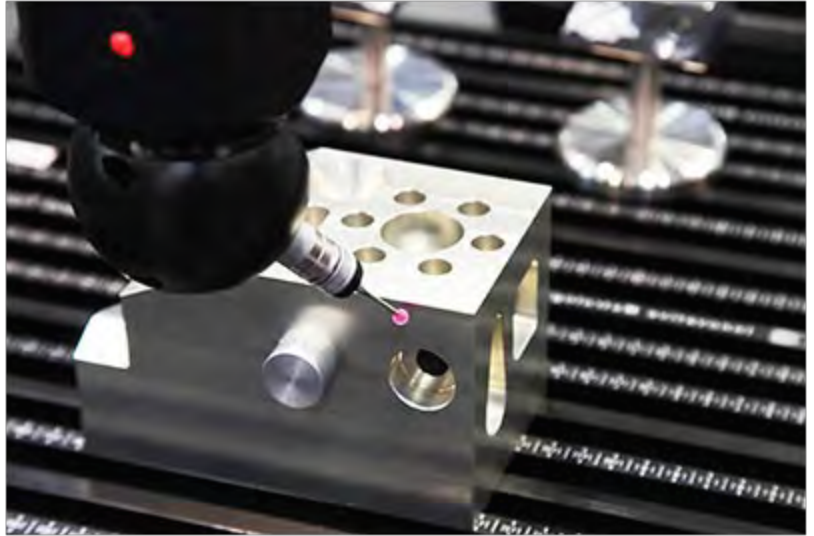
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- CLASS DELIVERY: Online
- CLASS DURATION: 16 Hrs
- CLASS SIZE: 1-40

Course Description

Upon completion of GD&T training, participants will be able to:

- Identify the types of functional geometric characteristics existing on parts, realize the limitations of numeric tolerances, and understand the need for geometric tolerances.
- Analyze tolerances expressed numerically and calculate minimum and maximum allowable values for dimensions.
- Understand and apply the symbols used with the geometric system of tolerances.
- Recognize basic dimensions on prints and properly interpret their meaning.
- Properly evaluate inspection data considering tolerance zones defined by geometric controls.
- Apply tolerances with bonus when suited to the application and properly interpret tolerances when bonus tolerance applies.
- Identify and properly interpret geometric controls on location, orientation, form, profile, and runout.
- Recognize datum feature identifiers applied to features with size and surfaces.
- Identify and interpret the datum reference frame including order of precedence.
- Create specifications using appropriate geometric tolerances and datum reference frames.



Campus Location(s): Online

Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

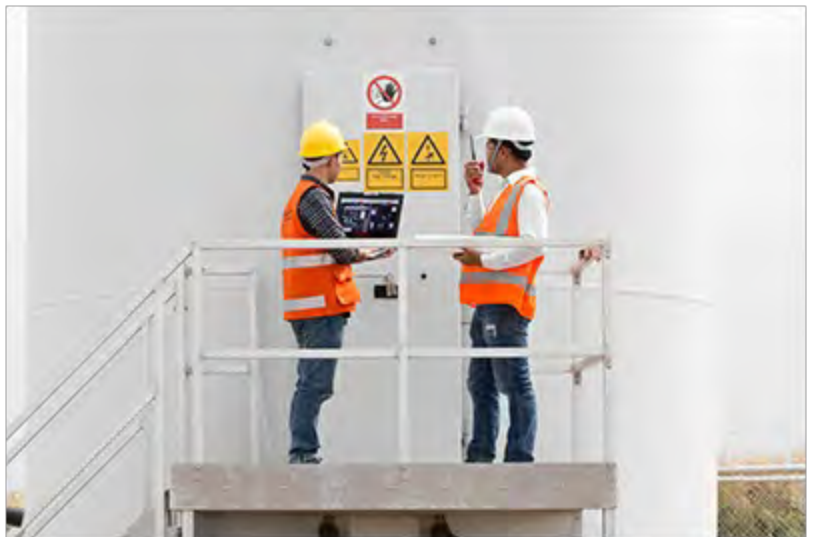
GWO Basic Wind Technician

- CLASS DELIVERY: In Person
- CLASS DURATION: 104 Hours
- CLASS SIZE: 15-20

This Global Wind Organization (GWO) accreditation course is a 104 clock-hour program (approximately 3 weeks in length if run full-time) that provides both didactic and experiential learning. This program is designed to instruct participants in the GWO Wind Energy to become Wind Technicians.

Concepts Taught:

- NFPA 79E
- GWO Single Rescuer Nacelle
- GWO Single Rescuer Hub
- GWO Nacell
- GWO HUB
- GWO Hydraulics
- GWO Electrical
- GWO Mechanical
- GWO Bolt Tightening
- GWO Working Height



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- GWO Manual Handling
- GWO First Aid
- GWO Fire Awareness

Campus Location: Sweetwater

Credentials: GWO Wind Certification, TSTC Certificate of Completion

For more information, please contact acceleratedtraining@tstc.edu

HAZMAT Endorsement

- CLASS DELIVERY: Online
- CLASS DURATION: 8
- CLASS SIZE: 10-30

Course Description

Often associated with tanker driving, this endorsement equips a driver to safely transport hazardous materials such as gas, oil and other liquid chemicals that must be carried in bulk.

Topics include:

- The Intent of the Regulations
- Bulk Tank Loading, Unloading and Marking
- Driver Responsibilities
- Driving and Parking Rules
- Communicating Rules
- Emergencies
- Loading and Unloading

Campus Location(s): All Locations and Online

Credentials: Hazardous Material Endorsement and TSTC Certificate of Completion

For more information, please contact:

acceleratedtraining@tstc.edu



Heavy Duty Diesel Engine Specialist

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- CLASS DELIVERY: In Person
- CLASS DURATION: 240 Hours
- CLASS SIZE: 8-12

Diesel Equipment Technology students will acquire the knowledge and skills necessary for the repair of diesel engines and troubleshooting/diagnostic procedures through a combination of lecture and lab work over the course of six weeks. Our classrooms and labs are interactive and have a real-world setting. This program gives students knowledge and hands-on skills to prepare them for a rapidly growing industry that is requiring a growing number of qualified technicians.



Campus Location(s): Harlingen

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

HVAC Continuing Education

- CLASS DELIVERY: In Person
- CLASS DURATION: 8 Hours
- CLASS SIZE: 10-15

The Texas 8-Hour ACR HVAC Renewal Course meets all Texas Department of Licensing and Regulation (TDLR) requirements for all air conditioning contractors renewing their licenses.

Topics may include:

- The Required Texas Laws and Rules
- Scheduling and Project Management
- Bidding and Estimating
- Employee Management
- Choosing your Business Structure
- Getting Work
- Customer Service



Campus location(s): All

Credentials: TDLR Continuing Education Unit, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Hydraulic Systems

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- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

Prepares individuals to connect, adjust, operate and analyze hydraulic circuits using these components: quick connect fittings, tee and cross fittings, fixed displacement pumps, filters, pilot-operated and direct operated relief valves, gauges, flow meters, directional control valves, flow control valves, check valves, pressure reducing valves, sequence valves, accumulators, pressure compensated flow control valves, cylinders and motors. Other key skills include adhering to hydraulic safety rules, reading hydraulic circuit symbols and diagrams, applying the Force-Pressure-Area formula, converting absolute/gauge pressure units, performing hydraulic power unit startup/shutdown, applying Pascal's Law, charging accumulators, reservoir refilling and measuring delta P.



Modules included in the course are:

- Introduction to Hydraulics
- Hydraulic Pumps
- Basic Hydraulic Circuits
- Hydraulic Pressure and Flow Concepts
- Hydraulic Pressure Control
- Hydraulic Flow Control
- Hydraulic Sequence Control

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Hydraulic Troubleshooting

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

This course covers hydraulic pumps, circuits, pressure, flow concepts and control, and sequence control. Examples of topics include: how to read a pressure gauge; the operation of a hydraulic unit; the function of a 3-position; 4-way directional control valve; calculating the force output of a hydraulic cylinder in retraction; the advantages of a pilot-operated relief valve; the effect of actuator load changes on flow control valve operation; and the operation of a direct-acting sequence valve.

Modules included in the course:

- Hydraulic Troubleshooting Concepts



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- Troubleshooting Hydraulic Pumps
- Troubleshooting Hydraulic Actuators
- Troubleshooting Hydraulic Valves 1
- Troubleshooting Hydraulic Valves 2
- Troubleshooting Hydraulic Systems

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Industrial Maintenance Electrical and Instrumentation (IM E&I) Technician

The Industrial Maintenance Electrical and Instrumentation (IM E&I) Technician program serves to build connections with the manufacturing industry, providing transitioning service members, National Guard and reservists, veterans, military spouses and civilians with the skills and certifications to find and excel in careers in manufacturing. Resources are also available to assist manufacturers with recruiting, hiring and retaining talent from the military community.

Certifications include:

NCCER - Industrial Maintenance Electrical and Instrumentation (IM E&I) Technician, Level 1

Program Information:

Courses:

- Electrical Safety for Qualified Electrical Personnel
- Motor Control and Troubleshooting
- Industrial Automation Principles
- Controller Technology and Programming
- Drive Configuration and Troubleshooting
- NCCER Core and Industrial Maintenance

Program Total: 347 hours

For more information, please contact:

acceleratedtraining@tstc.edu

Industrial Systems Training Program

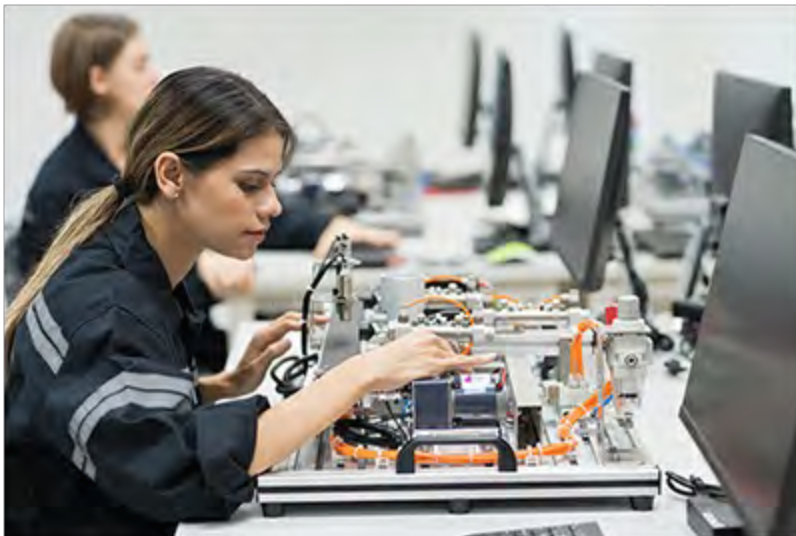


2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 288 Hours
- CLASS SIZE: 8-12

Manufacturing is a diverse and rewarding high-growth career in all industry segments and sectors in nearly every community in Texas. It is the backbone of our state's economy, driving solutions and innovations while improving the quality of our lives.

Industrial systems is an emerging field that integrates electrical and mechanical engineering, advanced manufacturing and computer technology. This is a 12-week course of accelerated training for in-demand industry certifications.



Electrical Systems (48 hours)

Prepares individuals to connect, adjust, operate, troubleshoot and analyze electrical circuits using basic electrical components such as resistors, capacitors, inductors, DC motors, solenoids, manual switches, relays, fuses, circuit breakers, transformers and indicators. Other key skills include adhering to electrical safety rules, reading electrical circuit diagrams, applying Ohm's law and Kirchhoff's law, using digital multimeters, interpreting series/parallel circuits and assessing power/circuit protection.

Electric Motor Control Systems (40 hours)

Prepares individuals to connect, adjust and operate electrical motor control circuits using these electrical components, including 3-phase AC motors, reversing magnetic motor starters with overloads, drum switches, control relays, timer relays, push-button switches, selector switches, limit switches, pressure switches and float switches. Other key skills include adhering to motor control safety rules, reading ladder logic circuit diagrams, checking for proper ground connections, wiring motors for high and low voltage and interpreting common motor control application circuits.

Variable Frequency Drive Systems (32 hours)

Prepares individuals to connect, configure, adjust and operate AC variable frequency motor drives using basic volts per hertz mode. Key skills include adhering to VFD safety rules, operating VFD in manual using keypad, performing normal VFD startup and shutdown, performing emergency shutdown, viewing and editing parameters, changing speed with potentiometer, interfacing/configuring external discrete I/O, interpreting error codes, resetting drive errors and configuring for acceleration, deceleration and braking.

Electrical System Installation (40 hours)

Prepares individuals to install and test/commission electrical motor control circuits using these electrical components: control cabinet enclosures, 3-phase AC motors, reversing magnetic motor starters with overloads, control relays, timer relays, push-button switches, selector switches, limit switches, pressure switches, indicators, electro-pneumatic solenoid valves, safety disconnect switches and circuit protection. Key skills include adhering to motor control installation safety rules, using proper PPE, reading electrical wiring installation diagrams, sizing circuit protection, installing components on DIN rails and cabinet panels, installing and testing ground systems, wiring motors for high and low voltage, selecting and preparing wire for installation, attaching of wire to terminal strips and components/motors and routing of wire with raceways/conduits.

Programmable Controller Systems (40 hours)

Prepares individuals to program, configuration, adjust, monitor and operate industrial programmable logic controller (PLC) systems. Key skills include adhering to PLC safety rules, performing normal startup/shutdown, operating PLC in different modes, performing emergency shutdown and reset, monitoring for proper operation through indicators and PC-based PLC software, configuring processor software drivers for communication to PC, configuring and loading of HMI programs, operating HMI with PLC, configuring PLC discrete I/O, transferring programs between PC and PLC processor, interpreting basic and intermediate level PLC ladder logic programs (with contacts, coils, timers, counters, math, comparison instructions), PLC project creation/editing and interpreting common PLC program logic applications using electro-pneumatic actuators and on/off motor control systems.

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Pneumatic Systems (40 hours)

Prepares individuals to connect, adjust, operate and analyze pneumatic circuits using these components: quick-connect fittings, tee and cross fittings, air compressors, filters, regulators, lubricators, gauges, rotameters, directional control valves, flow control valves, check valves, cylinders and motors. Other key skills include adhering to pneumatic safety rules, reading pneumatic circuit symbols and diagrams, applying the Force-Pressure-Area formula, converting absolute/gauge pressure units, performing reciprocating compressor startup/shutdown, applying Pascal's law, setting pressure switch, filter draining, setting lubricator rate, lubricator refilling and measuring delta P.

Mechanical Power Systems (48 hours)

Prepares individuals to install, adjust, align, tension, operate and analyze basic mechanical power transmission drive systems using these components: motors, shafts, flexible jaw couplings, fractional horsepower (FHP) chain drives, FHP V-belt drives, spur gear drives, pillow block bearings and flange bearings. Other key skills include adhering to mechanical drive safety rules, mounting and leveling motors, testing and correcting for soft foot, installing components and shafts with keyways, sizing keys, aligning shafts using feeler gauge and straight-edge method, calculating speed and torque from component size ratios, interpreting rotary power specifications, determining mechanical efficiency, greasing bearings using a grease gun, refilling oil lubrication reservoirs, interpreting lubrication specifications and identifying component given a model number.

Campus Location(s): All

Credentials: C201 Electrical Systems, C202 Electric Motor Control Systems, C203 Variable Frequency Drive Systems, C206 Electrical System Installation, C207 Programmable Controller Systems, C209 Pneumatic Systems, C210 Mechanical Power Systems and TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Injection Mold Setting and Processing

- CLASS DELIVERY: Online
- CLASS DURATION: 145 (18 weeks)
- CLASS SIZE: 10-30

Course Description

An introduction to mold setting and processing. Courses begin with Blueprint Reading and Math, move into Molds for Plastics, Mold Repair with basic welding, and concludes with 10 hours total of CAD and CAM instruction.

Teamwork, critical thinking and problem solving are emphasized. Hands-on experience and practical applications are achieved through on-the-job training via registered apprenticeship.

Campus Location(s): East Williamson County

Credentials: TSTC Certificate of Completion

For more information, please contact:

acceleratedtraining@tstc.edu



IPC J-STD-001 Soldering Certification

- CLASS DELIVERY: In Person
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-10

This course provides information on the standards for producing high-quality soldered leaded and lead-free interconnections, and describes the materials, methods and verification criteria for them. It emphasizes process control and establishes industry consensus requirements for a broad range of electronic connections. There are hands-on exercises for component placement and soldering connectivity. Upon completion of the course, the participants will be able to identify component connectivity, component requirements and soldering methods required to successfully assemble a project and qualify to test for the IPC J-STD-001 certification.



Modules included in the course are:

- Wires and Terminals
- PCB, Coating, Encapsulation and Staking
- Through-Hole Connectivity
- Surface Mount Connectivity
- Inspection

Campus Location(s): All

Credentials: IPC J-STD-001 Certification, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Laser Shaft Alignment

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 16 Hours
- CLASS SIZE: 8-12

Prepares individuals to install, configure, adjust and operate laser shaft alignment systems to perform precision alignment of mechanical power transmission shafts. Other key skills include adhering to laser system safety rules, using jack bolts for rough alignments, using laser system to correct for soft foot and determining proper alignment tolerances from manufacturer's documentation.

Modules included in the course:

- Introduction to Laser Shaft Alignment
- Laser Shaft Alignment Operation



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Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

LEAN 101

- CLASS DELIVERY: In person
- CLASS DURATION: 8 hours
- CLASS SIZE: 8-12

Course description

Designed for an understanding of the eight ways of manufacturing, employees will learn lessons in identifying value-added and non-value-added activities. The concepts learned will be used in an engaging factory simulation geared to the manufacturing floor employees.

Campus Location(s): All Locations

Credentials: Certificate of Completion

For more information, please contact:
acceleratedtraining@tstc.edu



LEAN for Leaders

- CLASS DELIVERY: In person
- CLASS DURATION: 8 hours
- CLASS SIZE: 8-12

Course Description

Designed for an understanding of the major LEAN concepts, managers will learn lessons in identifying value-added and non-value-added activities, LEAN concepts and tools used in a LEAN transformation. The concepts learned will be used in an engaging simulation geared to managerial staff.

Campus Location(s): All Locations

Credentials: Certificate of Completion

For more information, please contact:
acceleratedtraining@tstc.edu



Mechanical Power Systems

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 48 Hours
- CLASS SIZE: 8-12

Prepares individuals to install, adjust, align, tension, operate and analyze basic mechanical power transmission drive systems using these components: motors, shafts, flexible jaw couplings, fractional horsepower (FHP) chain drives, FHP v-belt drives, spur gear drives, pillow block bearings and flange bearings. Other key skills taught are: adhering to mechanical drive safety rules; mounting and leveling motors; testing and correcting for soft foot; installing components and shafts with keyways; sizing keys; aligning shafts using feeler gage and straight edge method; calculating speed and torque from component size ratios; interpreting rotary power specifications; determining mechanical efficiency; greasing bearings using a grease gun; refilling oil lubrication reservoirs; interpreting lubrication specifications; and identifying component given a model number. This course supports the SACA Micro-Credential C-210.



Modules included in the course:

- Introduction to Mechanical Drive Systems
- Motor Mounting
- Key Fasteners
- Torque, Power, Efficiency
- Power Transmission Systems
- Introduction to V-belt Drives
- V-belt Operation
- Introduction to Chain Drives
- Chain Drive Operation
- Chain Tensioning and Installation
- Introduction to Spur Gear Drives
- Spur Gear Drive Operation
- Multiple Shaft Drives

Campus Location(s): All

Credentials: SACA Micro-Credential C-210 Mechanical Power Systems 1, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

Mechatronics

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Mechatronics is an emerging field that integrates electrical and mechanical engineering, advanced manufacturing and computer technology. The Mechatronics program serves to build connections with the manufacturing industry, providing transitioning service members, National Guard and reservists, veterans, military spouses, and civilians with the skills and certifications to find and excel in careers in manufacturing. Resources are also available to assist manufacturers with recruiting, hiring and retaining talent from the military community.



Mechatronics program highlights:

- Department of Defense approved SkillBridge Program.
- Includes seven certifications from the Smart Automation Certification Alliance (SACA).
- Specialist series that certify Industry 4.0 technical skills in troubleshooting, programming, maintaining, and integrating systems.

Essential Advanced Manufacturing Topics:

- Electrical Components and Schematics
- Mechanical Components and Electric Drives
- (Electro) Pneumatics and Hydraulics
- Digital Fundamentals and Automation
- Programmable Logic Controllers (PLCs)

Program Information:

Courses:

- NFPA 70E Arc Flash
- Basic Electrical Theory
- Alternating Current
- Wiring
- Electrical Print Reading
- Motor Theory
- Motor Controls and Troubleshooting
- Basic Programmable Logic Controllers (PLC)
- Intermediate Programmable Logic Controllers (PLC)
- Pumps, Compressors and Mechanical Drives/Power
- Transmission – Belt Drives, Couplings, Chain Drives, Gearing
- Machinery Installation/Shaft and Coupling Alignment
- Lubrication
- Hydraulics and Pneumatics

Program Total: 288 hours

For more information, please contact:

acceleratedtraining@tstc.edu

Microsoft Office Course Offerings

(through contracted third-party partners)

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Word - Basic

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8 Hours
- CLASS SIZE: 8-12

This is an introductory level course designed to familiarize trainees on the use and application of Microsoft Word software. An assessment of each trainee's knowledge and skill level will be taken on the first day of class, as well as at the end of the class. Results will be reported back to the sponsor company.

Elements in this course include:

- Use the Help system and navigate documents.
- Enter and edit text, create and save documents and learn how to enhance the appearance of a document by using various formatting options.
- Create tables, insert headers and footers, proof and print documents and insert graphics.
- Insert graphics and clip art, move graphics, wrap text around graphics and modify graphics.
- Examine and compare text formatting, work with character styles and work with a document outline.
- Proof a document by checking spelling and grammar, use AutoCorrect, preview and print documents, create PDF and XPS documents and edit PDF documents in Word.



Word - Intermediate

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8-16 Hours
- CLASS SIZE: 8-12

This is an intermediate to advanced level course designed to build on the skills and concepts taught in Microsoft Word - Basic. An assessment of each trainee's knowledge and skill level will be taken on the first day of training, as well as at the end of class. Results will be reported back to the sponsor company.

Elements in this course include:

- Use the elements of the Word window, create and save documents and navigate a document and select text by using the keyboard and the mouse.
- Insert and delete text, create hyperlinks, use the Undo and Redo commands, cut, copy and paste text, and find and replace text.
- Use document templates, manage document revisions and work with Web features.
- Create tables, work with text in a table, adjust a table's structure, apply table formatting and styles and work with data in a table.
- Add headers and footers, set and change document margins, change page orientation, set text flow options and add and delete manual page breaks.
- Work with styles, sections and columns and will use the Navigation pane to work with outlines.
- Examine and compare text formatting, work with character styles and work with a document outline.
- Format tables, print labels and envelopes and work with graphics.

Excel - Basic

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8 Hours
- CLASS SIZE: 8-12

This is an introductory level course designed to familiarize trainees on the use and application of Microsoft Excel software. An assessment of each trainee's knowledge and skill level will be taken on the first day of class, as well as at the end of the class. Results will be reported back to the sponsor company.

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Elements in this course include:

- Use the Help system and navigate worksheets and workbooks.
- Recognize spreadsheet terminology.
- Start Microsoft Excel and identify the components of the Excel interface.
- Enter and edit text, values, formulas and pictures.
- Understand how to save workbooks in various formats.
- Move and copy data, learn about absolute and relative references and work with ranges, rows and columns.
- Use simple functions, basic formatting techniques and printing.
- Create and modify charts and learn how to manage large workbooks.
- Check spelling, find and replace text and data, preview and print a worksheet, set page orientation and margins, create and format headers and footers and print gridlines.

Excel - Intermediate

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8-16 Hours
- CLASS SIZE: 8-12

This course builds on the skills and concepts taught in Microsoft Excel – Basic. An assessment of each trainee’s knowledge and skill level will be taken on the first day of class, as well as at the end of the class. Results will be reported back to the sponsor company.

Elements in this course include:

- Enter and edit text and values, use AutoFill, enter formulas and examine the order of operations, save and update a workbook, and save a workbook in different file formats.
- Move and copy data, use the Office Clipboard, move and copy formulas, use AutoFill to copy formulas, use Paste Link, view formulas, work with relative and absolute references and insert and delete ranges, rows and columns.
- Use the SUM function, AutoSum and the AVERAGE, MIN, MAX, COUNT and COUNTA functions to perform calculations in a worksheet.
- Format text, cells, rows, and columns, merge cells, apply color and borders, format numbers, create conditional formats, and use the Format Painter.
- Create, format, modify and print charts based on worksheet data, work with various chart elements and apply chart types and chart styles.
- Create, format and modify pivot tables.
- Insert and modify a picture, represent data graphically within cells by applying three forms of conditional formatting (data bars, color scales and icon sets), and insert and modify SmartArt graphics.
- Check spelling, find and replace text and data, preview and print a worksheet, set page orientation and margins, create and format headers and footers and print gridlines.

Powerpoint - Basic

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8 Hours
- CLASS SIZE: 8-12

This introductory course covers the basic functions of Microsoft PowerPoint software, including the window components and the Help system. An assessment of each trainee’s knowledge and skill level will be taken on the first day of class, as well as at the end of the class. Results will be reported back to the sponsor company.

Elements in this course include:

- Create, save and rearrange presentations.
- Format text, use drawing objects, work with graphics and insert tables and charts.
- Use templates and themes, slide masters and transition effects.
- Proof, run and print presentations.

Powerpoint - Intermediate

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8-16 Hours

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● CLASS SIZE: 8-12

This course builds on the skills and concepts taught in PowerPoint - Basic. An assessment of each trainee's knowledge and skill level will be taken on the first day of class, as well as at the end of the class. Results will be reported back to the sponsor company.

Elements in this course include:

- Customize PowerPoint by modifying the Ribbon and changing application settings.
- Apply themes and templates, and how they will work with SmartArt graphics and tables.
- Add multimedia content and interactive elements to slides, and learn about presentation distribution options, including PDF, HTML and online broadcasts.
- Integrate PowerPoint with Word and Excel.

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

NCCER Carpentry Level 1 - Craft Training

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 162.5 Hours
- CLASS SIZE: 8-12

Carpenters make up the largest building trades occupation in the industry, and those with all-around skills are in high demand. Carpenters are involved in many different kinds of construction activities, from building highways and bridges to installing kitchen cabinets. Carpenters construct, erect, install and repair structures and fixtures made from wood and other materials.

Modules included in the course:

- Orientation to the Trade
- Building Materials, Fasteners and Adhesives
- Hand and Power Tools
- Introduction to Construction Drawings, Specifications and Layout
- Floor Systems
- Wall Systems
- Ceiling and Roof Framing
- Introduction to Building Envelope Systems
- Basic Stair Layout



Campus Location(s): All

Credentials: NCCER Carpentry Level I Craft Certification, TSTC Certification of Completion

For more information, please contact:

NCCER Core

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 80 Hours
- CLASS SIZE: 8-12

NCCER Core is designed as a rigorous, competency-based, industry-recognized program for career and technical education. Students may complete the required elements sooner or later than the recommended 150 hours of knowledge and skills-based instruction, depending on their individual proficiency in mastering the content.

NCCER Core is a prerequisite to all other Level 1 craft curriculum. Its modules cover topics such as Basic Safety, Communication Skills and Introduction to Construction Drawings. The recently released sixth edition of Core features a new, elective module introducing construction careers, more rigorous performance tests and extensive updates on math, hand tools, power tools, and drawings. Completing this curriculum gives the trainee the basic skills needed to continue their education in any craft area he or she chooses.



Modules included in the course:

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Construction Drawings
- Introduction to Basic Rigging
- Basic Communication Skills
- Basic Employability Skills
- Introduction to Material Handling

Campus Location(s): All

Credentials: NCCER Core Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

NCCER Electrical Level 1

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Electricians install electrical systems, wiring and other electrical components, as well as following blueprints and conforming to national, state and local codes.

NCCER Core (73 hours)

The NCCER Core Curriculum is a prerequisite and foundation to all other level 1 craft curriculum. Its modules cover topics such as basic safety, communication skills and introduction to construction drawings. Completing this curriculum gives the trainee the basic skills needed to continue education in any craft area he or she chooses.

Basic Electrical Wiring NCCER (113 hours)

Presentation of the theory of residential electric circuits. Topics include load calculations and safety in electrical work, installation of wiring, load protection, ground fault and other devices commonly used in 110-volt household applications.



Safety Component (14 hours)

OSHA General Industry/Construction Safety and Health provides an introduction to specific training techniques involving the safe handling of blood- and air-borne pathogens, as well as general safety and security on the premises. Addresses the right to know and MSDS. Outlines Occupational Safety and Health Administration (OSHA) regulations, inspections, penalties and compliance. The trainee will be able to:

- Demonstrate proficiency in handling critical and safety situations.
- Explain the importance of performing tasks safely and correctly.
- Maintain a situation in compliance with OSHA regulations.

Forklift Component (12 hours)

- Safety awareness, components identification and field driving exercises.
- Analyzing hydraulic and electrical components and safety precautions.
- Discussion of preventing maintenance and basic repairs.
- Variety of exercises, lifting techniques and additional criteria evaluation such as surface conditions.
- Successfully demonstrate maneuvering exercises around simulated obstacle course.

CPR/AED/First Aid (12 hours)

- Lifesaving skills of respiratory (choking and near-drowning) and cardiac emergencies involving adults, children and infants. Automated External Defibrillator inclusive. Instruction in first aid for injured and ill persons. Students will discuss and demonstrate assessment and management of injured and/or ill persons as recommended by the certifying agency. Students must meet requirements as specified by the certifying agency. Show proficiency according to current guidelines of the credentialing agency. Lab is required. Upon successful completion of the course, students will receive a certification card.
- Licensure/Certification Agency: American Heart Association, American Safety and Health Institute, National Safety Council.

Program Information:

Course: NCCER Electrical Level 1

Program total: 224 hours

Minimum of six students to make the course

Books, tools and labs included

Certifications: OSHA 10, Forklift, CPR

For more information, please contact:

acceleratedtraining@tstc.edu

NCCER Industrial Maintenance Electrical & Instrumental Level 1 - Craft Training

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 122.5 Hours
- CLASS SIZE: 8-12

Industrial maintenance electrical and instrumentation (IM E&I) technicians are needed in every industry that uses machinery, from automotive assembly plants to computer manufacturers. Not only do they repair and maintain electrical instruments and equipment, they also install and dismantle them. Every time a new appliance leaves a factory or a new car rolls off the line, a skilled electrical and instrumentation technician plays a role in producing it.



Modules included in the course include:

- Orientation to the Trade
- Tools of the Trade
- Fasteners and Anchors
- Oxy-fuel Cutting
- Gaskets and Packing
- Craft Related Mathematics
- Construction Drawings
- Pumps and Drivers
- Valves
- Introduction to Test Instruments
- Material Handling and Hand Rigging
- Mobile and Support Equipment
- Lubrication

Campus Location(s): All

Credentials: NCCER Industrial Maintenance Electrical & Instrumentation Level I Craft Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

NCCER Maritime Welding Level 1 Program

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- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 275 Hours
- CLASS SIZE: 8-12

The National Center for Construction Education & Research (NCCER) Maritime Welding Level 1 curriculum is a 275 instruction-hour program that is the first course in a series of three courses that comprise the NCCER Maritime Welding curriculum. It is a basic introduction to the welding trade made up of 21 modules consisting of specific learning objectives and performance tasks, and includes a nine-module core curriculum that is a prerequisite for all NCCER craft training. Completing this curriculum gives the trainee the basic entry-level skills needed for employment and to continue their education in the welding trade with an introduction to the maritime industry.



Modules included in the course:

- Basic Site Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Construction Drawings
- Introduction to Basic Rigging
- Basic Communication Skills
- Basic Employability Skills
- Introduction to Material Handling
- Introduction to Maritime Industry
- NCCER Welding Level 1 Curriculum
- Welding Safety
- Oxy-Fuel Cutting
- Plasma Arc Cutting
- Air-Carbon Arc Cutting and Gouging
- Base Metal Preparation
- Weld Quality
- SMAW – Equipment and Setup
- SMAW Electrodes
- SMAW – Beads and Fillet Welds
- Joint Fit-Up and Alignment
- SMAW – Groove Welds with Backing
- SMAW – Open-Root Groove Welds – Plate

Campus Location(s): Harlingen

Credentials: NCCER Maritime Industry Fundamentals Certification, NCCER Maritime Welding Level I Craft Certification, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

NCCER Welding Level 1 Program

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- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 365 Hours
- CLASS SIZE: 8-12

- Prerequisite(s): 77.5 Hours of [Core, 6th Edition](#)

Course Description:

Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair, the varied welding industry impacts virtually every industry. Technology is creating more uses for welding in the workplace. For example, new ways are being developed to bond dissimilar materials and non-metallic materials, such as plastics, composites and alloys. Also, advances in laser beam and electron beam welding, new fluxes and other new technologies and techniques all point to an increasing need for highly trained and skilled workers.

Modules included in the course:

- Welding Safety
- Oxy-fuel Cutting
- Plasma Arc Cutting
- Air-Carbon Arc Cutting and Gouging
- Base Metal Preparation
- Weld Quality
- SMAW-Equipment and Setup
- SMAW-Electrodes
- SMAW-Beads and Fillet Welds
- Join Fit-Up and Alignment
- SMAW-Groove Welds and Backing
- SMAW-Open Root Groove Welds - Plate



Campus Location(s): All

Credentials: NCCER Welding Level 1 Craft Training, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu

NFPA 70E ARC Flash

2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person or Virtual
- CLASS DURATION: 8 Hours
- CLASS SIZE: 6-16

This course provides guidance in order to comply with OSHA and NFPA 70E electrical safety regulations, including arc flash protection.

Modules included in the course:

- Policies and regulations applicable to electrical safety in the workplace
- General safety hazards and precautions associated with electrical systems
- Electrical tool and equipment safety
- Electrical system lockout/tagout requirements
- Requirements for working on energized equipment
- Requirements associated with arc flash protection
- Proper use of PPE (Personal Protective Equipment)
- Grounding control systems

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu



OSHA 10 for Construction Industry

- CLASS DELIVERY: In Person
- CLASS DURATION: 10 Hours
- CLASS SIZE: 8-40

The OSHA 10-hour Outreach Training for the Construction Industry course provides students with a basic safety and health knowledge to include OSHA policies, procedures and standards. Special emphasis is placed on those areas that are most hazardous. Upon completion of this course, a wallet card will be issued certifying that the student has completed 10 hours of OSHA training for Construction Industry.

Modules included in the course:

- Introduction to OSHA
- OSHA Focus Four
- Personal Protective and Lifesaving Equipment
- Health Hazards in Construction
- Stairways and Ladders
- Confined Space Entry
- Cranes, Derricks, Hoist, Elevators and Conveyors
- Excavations
- Machine Handling Storage and Use
- Scaffolds
- Tools – Hand and Power



Campus Location(s): All

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Credentials: OSHA 10 Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

OSHA 10 for General Industry

- CLASS DELIVERY: In Person
- CLASS DURATION: 10 Hours
- CLASS SIZE: 8-40

The OSHA 10-hour Outreach Training for General Industry course provides students with a basic safety and health knowledge to include OSHA policies, procedures and standards. Special emphasis is placed on those areas that are most hazardous. Upon completion of this course, a wallet card will be issued certifying that the student has completed 10 hours of OSHA training for General Industry.

Modules included in the course:

- Introduction to OSHA
- Walking and Working Surfaces, Including Fall Protection
- Exit Routes, Emergency Action Plans, Fire Prevention Plans, and Fire Protection
- Electrical
- Personal Protective Equipment
- Hazard Communication
- Hazardous Materials
- Material Handling
- Machine Guarding
- Introduction to Industrial Hygiene
- Permit Required Confined Space
- Respiratory Protection



Campus Location(s): All

Credentials: OSHA 10 Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

OSHA 30 for Construction Industry

2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person
- CLASS DURATION: 30 Hours
- CLASS SIZE: 8-40

The OSHA 30-hour Outreach Training for the Construction Industry course provides students with a basic safety and health knowledge to include OSHA policies, procedures and standards. Special emphasis is placed on those areas that are most hazardous. Upon completion of this course, a wallet card will be issued certifying that the student has completed 30 hours of OSHA training for the Construction Industry.



Modules included in the course:

- Introduction to OSHA
- Managing Safety and Health
- OSHA Focus Four
- Personal Protective and Lifesaving Equipment
- Health Hazards in Construction
- Stairways and Ladders
- Confined Space Entry
- Cranes, Derricks, Hoist, Elevators, and Conveyors
- Excavations
- Fire Protection
- Material Handling Storage and Use
- Motor Vehicles and Mechanized Equipment
- Powered Industrial Vehicles
- Scaffolds
- Tools – Hand and Power
- Welding and Cutting
- Safety and Health Programs
- Foundations for Safety Leadership

Campus Location(s): All

Credentials: OSHA 30 Certification, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

OSHA 30 for General Industry

2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person
- CLASS DURATION: 30 Hours
- CLASS SIZE: 8-40

The OSHA 30-hour Outreach Training for General Industry course provides students with a basic safety and health knowledge to include OSHA policies, procedures and standards. Special emphasis is placed on those areas that are most hazardous. Upon completion of this course, a wallet card will be issued certifying that the student has completed 30 hours of OSHA training for General Industry.

Modules included in the course:

- Introduction to OSHA
- Managing Safety and Health
- Walking and Working Surfaces, Including Fall Protection
- Exit Routes, Emergency Action Plans, Fire Prevention Plans, and Fire Protection
- Electrical
- Personal Protective Equipment
- Hazard Communication
- Hazardous Materials
- Permit Required Confined Space
- Lockout/Tagout
- Machine Guarding
- Welding, Cutting and Brazing
- Introduction to Industrial Hygiene
- Bloodborne Pathogens
- Ergonomics
- Fall Protection
- Safety and Health Programs
- Powered Industrial Vehicles

Campus Location(s): All

Credentials: OSHA 30 Certification, TSTC Certification of Completion

For more information, please contact:
acceleratedtraining@tstc.edu



Patient Care Technician

2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person and Online
- CLASS DURATION: 155 hrs
- CLASS SIZE: 15-20

Course Description

Patient care technicians are involved with a variety of tasks including primary patient care, conducting blood draws, catheterizations, wound care, and the removal of sutures and staples. They can also administer electrocardiography (ECGs), take vital signs, perform emergency room procedures and operate dialysis equipment. The PCT program is ideal for those who have a passion for working with patients, nurses, doctors, and patients' families.

Campus Location(s): Abilene, Breckenridge, Brownwood, Harlingen, and Sweetwater



Credentials: Certified Patient Care Technician/Assistant (CPCT/A), TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Phlebotomy Technician

- CLASS DELIVERY: In Person
- CLASS DURATION: 86 Hours
- CLASS SIZE: 10-16

The Phlebotomy Technician course prepares the student in the various blood collection methods, using proper techniques and universal precautions. Recommended by NCCLS, students will be trained on vacuum collection devices, syringes, capillary skin puncture blood-culture, and specimen collection. Students will learn medical terminology, related anatomy, physiology, and utilization of laboratory equipment. High emphasis is placed on professionalism, ethics, proper patient identification, labeling of specimens, quality specimen handling, and processing. Successful completion of the course will prepare students to challenge the ASCP National Registry Exam.



Employment of phlebotomists is projected to grow 25% by 2026, much faster than the average for all occupations. Hospitals, diagnostic laboratories, blood donor centers, and other locations will need phlebotomists to perform blood work.

Employment or possible career opportunities:

- Hospitals and clinics
- Diagnostic laboratories
- Blood donor centers
- Health maintenance organizations
- Public health agencies
- Nursing homes
- Research institutions

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Campus Location(s): Abilene, Breckenridge, Brownwood, Harlingen, and Sweetwater

Credentials: First Aid/CPR, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Plumber Continuing Education

- CLASS DELIVERY: In Person
- CLASS DURATION: 6 Hours
- CLASS SIZE: 10-15

This course includes the six hours of continuing education required by the Texas State Board of Plumbing Examiners (TSBPE) to renew plumbing licenses in Texas (Inspector, Master, Journeyman, Tradesman, or Apprentice with endorsements). It may also be used toward the initial licensing requirements for the Journeyman or Tradesman examinations.

Topics may include:

- State of the industry
- Tankless water heaters
- Water heaters (IPC Chapter 5)
- Gas piping installation (IFGC Chapter 4)
- Professional ethics
- Resiliency and building codes

This course has been approved by the state of Texas for six hours of continuing professional education credit for all plumbing licenses.

Campus Location(s): All

Credentials: TSBPE Continuing Education Unit, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Pneumatic Systems



2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

Prepares individuals to connect, adjust, operate and analyze pneumatic circuits using these components: quick connect fittings, tee and cross fittings, air compressors, filters, regulators, lubricators, gauges, rotameters, directional control valves, flow control valves, check valves, cylinders and motors. Other key skills taught are: adhering to pneumatic safety rules, reading pneumatic circuit symbols and diagrams, applying the Force-Pressure-Area formula, converting absolute/gauge pressure units, performing reciprocating compressor startup/shutdown, applying Pascal's Law, setting pressure switch, filter draining, setting lubricator rate, lubricator refilling and measuring delta P. This course supports the SACA Micro-Credential C-209.



Modules included in the course:

- Pneumatic Power Systems
- Basic Pneumatic Circuits
- Principles of Pneumatic Pressure and Flow
- Pneumatic Speed Control Circuits
- Pneumatic DCV Applications
- Air Logic
- Pneumatic Maintenance

Campus Location(s): All

Credentials: SACA Micro-Credential C-209 Pneumatic Systems 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Professional Bus Driver Training

- CLASS DELIVERY: In Person
- CLASS DURATION: 120 Hours

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● CLASS SIZE:12

This course prepares students to take their written permit exam in order to receive a Class B CDL with Endorsements, including:

- Passenger
- School Bus

Students must pass the written CDL permit exam with the Texas Department of Motor Vehicles. Students will not be permitted to drive on public roads until a CDL permit has been obtained. The Harlingen location is a third-party examining site.

Training covers topics in basic operations, safe operating practices, vehicle maintenance, and other activities such as railroad crossings, speed and space management, documentation regulations, accident procedures, and extreme conditions.



Requirements for admission to TSTC and the Commercial Bus Driver program are:

- Must be at least 18 years of age. The U.S. Department of Transportation requires that all interstate drivers be at least 21 years of age.
- Must provide a driving record free of current serious violations.
- Must be able to pass a Department of Transportation physical as required by federal & state agencies.
- Must be able to pass a drug screen when administered.
- No felony convictions in the past five years. All criminal records are subject to review and may be required to provide a letter of intent to hire from a prospective employer.

Campus Location(s): Abilene and Harlingen

Credentials: Class B Commercial Driver's License with Passenger Endorsement and/or School Bus Endorsement, TSTC Certification of Completion

For more information, please contact:

transportationtraining@tstc.edu

acceleratedtraining@tstc.edu

Programmable Controller Systems (PLC)

2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 40 Hours
- CLASS SIZE: 8-12

Prepares individuals to program, configure, adjust, monitor and operate industrial programmable logic controller (PLC) systems. Key skills taught are: adhering to PLC safety rules; performing normal startup/shutdown; operating PLC in different modes; performing emergency shutdown and reset; monitoring for proper operation through indicators and PC-based PLC software; configuring processor software drivers for communication to PC; configuring and loading of HMI programs; operating HMI with PLC; configuring PLC discrete I/O; transferring programs between PC and PLC processor; interpreting basic and intermediate level PLC ladder logic programs (with contacts, coils, timers, counters, math, comparison instructions); PLC project creation/editing; and interpreting common PLC program logic applications using electro-pneumatic actuators and on/off motor control systems. This course supports the SACA Micro-Credential C-207.



Modules included in the course:

- Programmable Controller Operation
- PLC Ethernet Communication
- Basic PLC Program Instructions
- PLC Project Elements
- PLC Motor Control
- PLC Timer Instructions
- PLC Event Sequencing 1
- PLC Event Sequencing 2
- PLC Counter Instructions
- HMI Ethernet Operation
- Program Control Instructions
- Math and Data Move Instructions
- Component Troubleshooting
- Systems Troubleshooting

Campus Location(s): All

Credentials: SACA Micro-Credential C-207 Programmable Controller Systems 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Rigging Systems

2026-2027 Catalog & Student Handbook

- CLASS DELIVERY: In Person
- CLASS DURATION: 24 Hours
- CLASS SIZE: 8-12

This system teaches how to safely move loads of different shapes and sizes using a variety of methods.

Modules included in the course:

- Introduction to Rigging
- Hoists
- Slings and Hitches
- Wire Rope
- Chain Slings

Campus Location(s): All



Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Safety Course Offerings

(through contracted third-party partners)

General Plant Safety

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 4 Hours
- CLASS SIZE: 8-12

This course is designed to provide an overview of general responsibilities concerning safe work practices as they apply to the safety and health of employees during the performance of his or her job. It will include the latest updates to the Hazard Communication standard with the changes to chemicals.

Elements in this course include:

- Develop an awareness of hazards in the workplace and understand the importance of working safely.
- Ability to describe chemical safety such as hazard communications, chemical handling and lab safety.
- Demonstrate the use of personal protective gear.
- Awareness of blood borne pathogens, slips, trips, falls, ergonomics and back safety as a part of worker protection.
- General understanding of workplace safety including fire safety, machine guarding and confined space.
- Knowledge in HAZMAT topics such as hazardous materials, drum handling and small spills and leaks.
- Understanding of lockout/tagout procedures and electrical safety.



Fall Protection Awareness

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8 Hours

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- CLASS SIZE: 8-12

This course covers the basic principles of fall protection required by OSHA 1926.503. The course fulfills basic requirements for those employees who may be exposed to hazards involving falls.

Elements in this course include:

- Employee/Employer responsibilities
- Hazard Identification and Analysis
- Fall Protection Hierarchy
- Equipment Identification and Use
- Proper Inspection and Maintenance Procedures
- Post-fall Issues: Rescue, Victim Management, Emergency Services Involvement
- Regulatory Issues

Confined Space

- CLASS DELIVERY: In Person
- CLASS DURATION: 16 Hours
- CLASS SIZE: 8-12

Course Description

Many workplaces contain spaces that are considered to be “confined” because their configurations hinder the activities of employees who must enter into, work in or exit from. The OSHA 16-Hour Confined Space Entry course provides Confined Space Entry training to any personnel required to enter confined spaces where a permit is required.

Learning Objectives

- Describe permit confined space
- Assess a confined space entry
- Work in accordance with confined space requirements
- Safety use of equipment and personal protective equipment

CPR, First Aid and AED

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 8 Hours
- CLASS SIZE: 8-12

First Aid BasicPlus is a combined adult CPR, AED and first aid training program designed specifically for the occupational first aid provider. This course will help employers meet OSHA and other federal and state regulatory requirements for training employees how to respond and care for medical emergencies at work.

Elements in this course include:

- Demonstrate proficiency at opening airways, stopping bleeding and preventing shock.
- Demonstrate ability to provide proper first aid for head injuries, chest and abdominal wounds and burn injuries.
- Demonstrate ability to apply proper bandages, splinting and tourniquets.

Elevated Emergency Management

- CLASS DELIVERY: In Person or Online
- CLASS DURATION: 16 Hours
- CLASS SIZE: 8-12

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This course provides the knowledge and skills needed to perform basic first aid, victim stabilization, packaging and evacuation from remote, elevated work locations. Most rural emergency response teams do not have the training or tools to reach a victim that is often over 300 feet aloft.

Elements in this course include:

- Recognize and manage an emergency in inaccessible locations.
- Prioritize care for life-threatening injuries.
- Recognize and care for traumatic injuries, including burns, external bleeding, electrocution and amputation.
- Identify and care for muscle, bone and joint injuries, including injuries to the head & neck.
- Evacuate victims with a minimal disruption in patient care.

For more information, please contact:

acceleratedtraining@tstc.edu

Soldering Fundamentals

- CLASS DELIVERY: In Person
- CLASS DURATION: 80 Hours
- CLASS SIZE: 8-10

This practical, hands-on course introduces participants to the basic concepts, tools, materials, processes, and skills required to hand solder through-hole and surface mount chip components according to industry standards.

Modules included in the course are:

- Introduction
- Safety and ESD
- Materials
- Equipment and tools
- Soldering concept
- Through-hole component soldering
- Basic surface mount component soldering
- Cleaning



Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Variable Frequency Drive Systems

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- CLASS DELIVERY: In Person or Hybrid
- CLASS DURATION: 32 Hours
- CLASS SIZE: 8-12

Prepares individuals to connect, configure, adjust and operate AC variable frequency motor drives using basic volts per hertz mode. Key skills taught are: adhering to VFD safety rules, operating VFD in manual using keypad, performing normal VFD startup and shutdown, performing emergency shutdown, viewing and editing parameters, changing speed with potentiometer, interfacing/configuring external discrete I/O, interpreting error codes, resetting drive errors and configuring for acceleration, deceleration and braking. This course supports the SACA Micro-Credential C-203.



Modules included in the course:

- Introduction to Variable Frequency Drives
- Introduction to Speed Control
- Speed and Torque Control
- Acceleration, Deceleration and Braking

Campus Location(s): All

Credentials: SACA Micro-Credential C-203 Variable Frequency Drive Systems 1, TSTC Certification of Completion

For more information, please contact:

acceleratedtraining@tstc.edu

Welding Safety

- CLASS DELIVERY: In Person
- CLASS DURATION: 196
- CLASS SIZE: 8-10

Course Description

An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy. Demonstrate safety procedures associated with oxy-fuel and arc process, perform basic welds using oxy-fuel and arc welding equipment and identify various metals.

An overview of terminology, safety procedures and equipment set-up. Practice in performing various joints using Flux Arc Welding (FCAW)

equipment. Demonstrate equipment safety checks, identify Flux Core Arc Welding (FCAW) equipment parts and demonstrate the procedures of welding various joints in various positions.



Campus Location(s): Harlingen

Credentials: TSTC Certification of Completion, OSHA10, Forklift

For more information, please contact:

acceleratedtraining@tstc.edu

16. Essential Program Functions

01. What are Essential Program Functions and Technical Standards?

To succeed in your program, you need to understand two important requirements: Essential Program Functions and Technical Standards.

You are expected to verify your ability to perform the technical standards of your program, with or without accommodations.

If you are an otherwise qualified individual with a documented disability, we will provide appropriate and reasonable accommodations unless doing so would fundamentally alter the essential training elements, cause undue hardship, or produce a direct threat to your safety or the safety of others.

If you believe you may not meet the technical standards listed for your program, please contact the Access and Learning Accommodations office at adarequest@tstc.edu to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of your program.

Essential functions are the required tasks or training elements within a program that you must perform in order to meet predetermined learning outcomes. These are the core activities you must be able to complete to pass your courses and earn your credential.

Technical standards are the abilities and characteristics necessary to perform the essential functions of a program safely and effectively. Technical standards also include our defined expectations for your behavior, professionalism, and soft skills—the interpersonal and communication abilities that help you work well with others.

More information can be found in our Statewide Standards [HR 2.5.2 AMERICANS WITH DISABILITIES ACT](#) and [ES 3.26 STUDENTS WITH DISABILITIES](#).

Aircraft Airframe and Powerplant Technology

AMA/AMP TECHNICAL STANDARDS

Aviation Maintenance programs have established technical standards to ensure that students have the abilities required to function in the classroom, lab and hangar environment. These standards are essential for the successful completion of all phases of the program which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.	• Reading technical data sources such as aircraft manuals and federal regulations to determine how to group aircraft or aircraft parts.
Deductive Reasoning	The ability to apply general rules to specific problems to produce answers that make sense.	• Reading of technical data sources to determine how they apply to specific maintenance problems.
Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word or sound) that is hidden in other distracting material.	• Listening to aircraft and tool sounds to identify problems. • Visual inspection of aircraft parts to find small flaws. • Reading technical data to locate key words.
Fluency of Ideas	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity).	• Generate theories on potential root problems from observable flaws or incorrect function of a system.
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	• Finding patterns during troubleshooting to determine a root cause that could explain all observed issues.
Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	• Ordering aircraft parts. • Working with lists of part numbers from a parts catalog. • Generating clear and concise write ups of flaws during an inspection.
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	• Calculations for physics, weight and balance, or electrical system operations. • Determining bend radii, volume, area or perimeter during sheet metal work.
Memorization	The ability to remember information, such as words, numbers, pictures and procedures.	• Learning aircraft-related jargon. • Creating, reading and/or applying technical data in the form of text, graphs or drawings.
Number Facility	The ability to add, subtract, multiply or divide quickly and correctly.	• Calculation of electrical system values during measurement. • Calculation of aircraft center of gravity. • Reading gages during system operation and comparing them to acceptable values.
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	• Hear and understand lectures and safety briefings prior to lab work. • Hear and react to auditory information such as instructions, warnings or alarms during lab work.
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.	• Communicate with instructors and lab partners, as well as customers, co-workers, managers and subordinates.

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Originality	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	Solving non-standard problems when performing maintenance on aircraft or ground-service equipment.
Perceptual Speed	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	- Reading transitory information such as electrical meters and aircraft gages. - Observing rotating or moving parts such as propellers, flaps, ailerons and landing gear. - Identifying aircraft parts.
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.	- Determining the presence of faults within aircraft parts or systems. - Anticipating safety hazards during work in a hangar or flight line environment.
Selective Attention	The ability to concentrate on a task over a period of time without being distracted.	Remaining productive on repetitive tasks during lecture, technical data research or hands-on work.
Spatial Orientation	The ability to know your location in relation to the environment or to know where other objects are in relation to you.	Observing static, moving or rotating parts, tools and equipment for safety purposes, such as propellers and landing gear.
Speed of Closure	The ability to quickly make sense of, combine and organize information into meaningful patterns.	Reading and analyzing transitory information such as meters and gages during system operation.
Time Sharing	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch or other sources).	- Using all senses to analyze faults in aircraft parts and systems, sometimes in situations where safety and speed is of the essence. - Multitasking during procedures where multiple workflows are being performed in parallel, such as performing other tasks while waiting for another lengthy process to complete.
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	Picturing what aircraft parts and systems will do in complex scenarios. Parts may or may not be visible during operation.
Written Comprehension	The ability to read and understand information and ideas presented in writing.	- Reading and comprehending technical data from aircraft manuals, federal regulations or similar materials. - Reading and comprehending internal processes and procedures, or written communication from engineers or customers.
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm, or while holding your arm and hand in one position.	Performing precise technical work with hand tools, hand-held power tools, or bench-mounted power tools, as well as the parts being formed or fabricated.

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Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	• Safe and reliable operation of hand tools, hand-held power tools, and bench-mounted power tools. • Precise adjustment of knobs, levers and switches on aircraft or service equipment. • Safe operation of ground vehicles such as aircraft, tugs and forklifts.
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble very small objects.	• Placement, manipulation and removal of small parts and hardware.
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate or assemble objects.	• Reliable, safe and precise operation of tools, aircraft parts and equipment.
Multi-limb Coordination	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing or lying down. It does not involve performing the activities while the whole body is in motion.	• Using multiple limbs to maneuver in and around aircraft, as well as to manipulate parts and aircraft controls requiring simultaneous use of both hands and feet.
Rate Control	The ability to time your movements, or the movement of a piece of equipment, in anticipation of changes in the speed and/or direction of a moving object or scene.	• Hangar safety around moving parts and aircraft.
Reaction Time	The ability to quickly respond (with the hand, finger or foot) to a signal (sound, light or picture) when it appears.	• Use of meters, gages and screens to operate and troubleshoot systems while in operation.
Response Orientation	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds or pictures). It includes the speed with which the correct response is started with the hand, foot or other body part.	• Operation of equipment, aircraft and tools, usually when safety is critical.
Speed of Limb Movement	The ability to quickly move the arms and legs.	• Reaction to moving aircraft, parts, equipment and tools, often when safety is critical.
Wrist-Finger Speed	The ability to make fast, simple, repeated movements of the fingers, hands and wrists.	• Safe and reliable operation of tools, equipment and controls.
Dynamic Flexibility	The ability to quickly and repeatedly bend, stretch, twist or reach out with your body, arms and/or legs.	• Performing maintenance operations on aircraft, often in tight spaces. • Navigating safely in a hangar environment.
Dynamic Strength	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	• Using a variety of light and heavy hand tools and power tools, often in tight spaces, and frequently overhead for long periods of time.
Explosive Strength	The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object.	• Tool use including hammers and wrenches. • Maneuvering heavy equipment or aircraft.
Extent Flexibility	The ability to bend, stretch, twist or reach with your body, arms and/or legs.	• Maneuvering inside tight spaces in aircraft or around objects in a hangar environment.

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Gross Body Coordination	The ability to coordinate the movement of your arms, legs and torso together when the whole body is in motion.	• Maneuvering inside tight spaces in aircraft or around objects in a hangar environment.
Gross Body Equilibrium	The ability to keep or regain your body balance or stay upright when in an unstable position.	• Climbing up and down stairs, ladders and maintenance stands
Stamina	The ability to exert yourself physically over long periods of time without getting winded or out of breath.	• Performing physical activities such as tool use, equipment maintenance or moving large metal objects over a day-long lab or work shift.
Static Strength	The ability to exert maximum muscle force to lift, push, pull or carry objects.	• Moving aircraft, tools, equipment and parts. • Holding parts in places for long periods in order to install them on an aircraft.
Trunk Strength	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing.	• Standing, often in ergonomically difficult positions, while performing work on aircraft.
Auditory Attention	The ability to focus on a single source of sound in the presence of other distracting sounds.	• Identifying correct function of aircraft systems, tools and equipment. • Performing maintenance with equipment that uses auditory alarms or signals.
Depth Perception	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	• Using tools to do precise modifications of parts. • Maintaining safety around power tools and moving aircraft or their parts.
Glare Sensitivity	The ability to see objects in the presence of glare or bright lighting.	• Working in dark spaces with flashlights. • Working on bright airport ramps.
Hearing Sensitivity	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	• Determining proper operation of aircraft systems, engines, tools or equipment. • Troubleshooting faults in such systems.
Near Vision	The ability to see details at close range (within a few feet of the observer).	• Performing maintenance operations on using hand tools or power tools, particularly in tight spaces.
Night Vision	The ability to see under low light conditions.	• Working in low light conditions in hangars or inside aircraft, often by flashlight.
Peripheral Vision	The ability to see objects, or movement of objects, to one's side when the eyes are looking ahead.	• Maintaining safety in a hangar environment among moving aircraft, parts, systems and equipment.
Sound Localization	The ability to tell the direction from which a sound originated.	• Troubleshooting faults in aircraft parts and equipment. • Maintaining safety in a hangar environment.
Speech Clarity	The ability to speak clearly so others can understand you.	• Communication with instructors and lab partners, as well as co-workers, managers, customers and subordinates.

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Speech Recognition	The ability to identify and understand the speech of another person.	• Communication with instructors and lab partners, as well as co-workers, managers, customers and subordinates.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

While the following regulations from 14 CFR do NOT stop a person from studying aircraft maintenance in a collegiate environment, they may affect certain individuals' ability to get a license or a job after graduation:

- **65.12 Offenses involving alcohol or drugs.**

(a) A conviction for the violation of any Federal or state statute relating to the growing, processing, manufacture, sale, disposition, possession, transportation or importation of narcotic drugs, marijuana, depressant or stimulant drugs or substances is grounds for—

(1) Denial of an application for any certificate or rating issued under this part for a period of up to 1 year after the date of final conviction; or

(2) Suspension or revocation of any certificate or rating issued under this part.

(b) The commission of an act prohibited by § 91.19(a) of this chapter is grounds for—

(1) Denial of an application for a certificate or rating issued under this part for a period of up to 1 year after the date of that act; or

(2) Suspension or revocation of any certificate or rating issued under this part.

- **65.71 Eligibility requirements: General.**

(a) To be eligible for a mechanic certificate and associated ratings, a person must—

(1) Be at least 18 years of age;

(2) Be able to read, write, speak and understand the English language, or in the case of an applicant who does not meet this requirement and who is employed outside of the United States by a U.S. air carrier, have his certificate endorsed "Valid only outside the United States";

(3) Have passed all of the prescribed tests within a period of 24 months; and

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(4) Comply with the sections of this subpart that apply to the rating he seeks.

(b) A certificated mechanic who applies for an additional rating must meet the requirements of § 65.77 and, within a period of 24 months, pass the tests prescribed by §§ 65.75 and 65.79 for the additional rating sought.

Aircraft Pilot Training Technology

APT TECHNICAL STANDARDS

The Aircraft Pilot program has adopted technical standards to ensure students have the abilities required to function in the avionics classroom/laboratory environment. These technical standards are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.	
Deductive Reasoning	The ability to apply general rules to specific problems to produce answers that make sense.	• Determining an expected taxi route based on wind direction prior to receiving a taxi clearance.
Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word or sound) that is hidden in other distracting material.	• Identifying climb-out instructions based on other traffic in the area.
Fluency of Ideas	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity).	
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	
Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	• Interpolating performance values on a climb chart in order to calculate rate of climb.
Memorization	The ability to remember information, such as words, numbers, pictures and procedures.	• Memorizing all of the required equipment for a flight under VFR conditions during the day.
Number Facility	The ability to add, subtract, multiply or divide quickly and correctly.	
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	• Comprehending a complex instrument approach clearance.

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Oral Expression	The ability to communicate information and ideas in speaking so others will understand.	Reading back a complex instrument takeoff clearance.
Originality	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	
Perceptual Speed	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.	Noticing an abnormally high oil temperature in flight.
Selective Attention	The ability to concentrate on a task over a period of time without being distracted.	Briefing an instrument approach procedure without neglecting to include critical information.
Spatial Orientation	The ability to know your location in relation to the environment or to know where other objects are in relation to you.	
Speed of Closure	The ability to quickly make sense of, combine and organize information into meaningful patterns.	
Time Sharing	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch or other sources).	Operating in complex airspace while navigating, listening to air traffic control, and monitoring the systems of the aircraft.
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	Understanding how changing the location of baggage will affect the weight and balance of the aircraft.
Written Comprehension	The ability to read and understand information and ideas presented in writing.	Utilizing the Pilot's Handbook of Aeronautical Knowledge to develop an understanding of the four forces of flight.
Written Expression	The ability to communicate information and ideas in writing so others will understand.	

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Auditory Attention	The ability to focus on a single source of sound in the presence of other distracting sounds.	Listening to the weather report for an airport while other pilots are also communicating on the radio.
Depth Perception	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	
Far Vision	The ability to see details at a distance.	Identifying the layout of an airport's runways from a distance.
Glare Sensitivity	The ability to see objects in the presence of glare or bright lighting.	
Hearing Sensitivity	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	Estimating the aircraft's approximate RPM setting based on engine sound.
Near Vision	The ability to see details at close range (within a few feet of the observer).	Determining the aircraft's takeoff performance using a flow-type performance chart.
Night Vision	The ability to see under low light conditions.	Navigating from the taxiway to the runway at night.
Peripheral Vision	The ability to see objects or movement of objects to one's side when the eyes are looking ahead.	
Sound Localization	The ability to tell the direction from which a sound originated.	
Speech Clarity	The ability to speak clearly so others can understand you.	Repeating a complex taxi clearance using the ICAO phonetic alphabet.
Speech Recognition	The ability to identify and understand the speech of another person.	
Visual Color Discrimination	The ability to match or detect differences between colors, including shades of color and brightness.	Identify colored arcs on an airspeed indicator to recognize important airspeeds such as flap extension speed and never exceed speed.
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	

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Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	• Making slight adjustments to the flight controls to keep the airplane aligned with the runway centerline during landing.
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble very small objects.	• Programming an instrument approach procedure into the aircraft's GPS.
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate or assemble objects.	
Multi-Limb Coordination	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing or lying down. It does not involve performing the activities while the whole body is in motion.	• Utilizing proper crosswind landing technique by coordinating aileron control with your hands and rudder control with your feet.
Rate Control	The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.	• Timing the flare or "roundout" during landing to ensure a smooth transition from descent to landing.
Reaction Time	The ability to quickly respond (with the hand, finger or foot) to a signal (sound, light, picture) when it appears.	• Recognizing an unusual flight attitude and promptly correcting.
Response Orientation	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot or other body part.	
Speed of Limb Movement	The ability to quickly move the arms and legs.	• Promptly running the appropriate flow and verifying with the checklist during an in-flight emergency.
Wrist-Finger Speed	The ability to make fast, simple, repeated movements of the fingers, hands and wrists.	
Dynamic Flexibility	The ability to quickly and repeatedly bend, stretch, twist or reach out with your body, arms and/or legs.	
Dynamic Strength	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	
Explosive Strength	The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object.	
Extent Flexibility	The ability to bend, stretch, twist or reach with your body, arms and/or legs.	
Gross Body Coordination	The ability to coordinate the movement of your arms, legs and torso together when the whole body is in motion.	

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Gross Body Equilibrium	The ability to keep or regain your body balance or stay upright when in an unstable position.	
Stamina	The ability to exert yourself physically over long periods of time without getting winded or out of breath.	
Static Strength	The ability to exert maximum muscle force to lift, push, pull or carry objects.	
Trunk Strength	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing.	

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Students who wish to enter the APT program must pass an FAA Class II Flight Physical as defined at https://www.faa.gov/about/office_org/headquarters_offices/avs/offices/aam/ame/guide/standards/.

Students who wish to enter a career as an Airline Transport Pilot must pass an FAA Class I Flight Physical as defined at the same address above.

Auto Collision & Management Technology

ACM TECHNICAL STANDARDS

The Auto Collision and Management program has established technical standards to ensure that students have the abilities required to function in the classroom, lab and co-op environment. These standards are essential for the successful completion of all phases of the program, which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient for sound problem-solving reasoning. Reasoning skills are sufficient to perform deductive/inductive thinking for auto collision repair decisions.	• Evaluate vehicle and/or estimate, synthesize data and draw sound repair plan. • Collect repair information/procedures, prioritize needs, and anticipate additional damage. • Identify cause-effect situations. • Transfer knowledge from one situation to another.

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Interpersonal Skills	Abilities are sufficient to interact with individuals, insurance companies and fellow coworkers.	● Establish rapport with industry, instructors, staff, and colleagues. ● Respect and care for others even if beliefs and values may conflict with your own. ● Provide customer service regardless of the client's race, ethnicity, age, gender, religion, sexual orientation, or diagnosis. ● Establish and maintain professional boundaries. ● Exhibit ethical behavior and exercise good judgment.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	● Document and interpret actions and customer responses in a clear, professional and timely manner. ● Convey information to customers and others as necessary to process repairs, and direct in an accurate, effective and timely manner. ● Recognize and report critical customer and vehicle information to other shop and school personnel. ● Read, write, comprehend, and speak the English language to facilitate communication with instructors, customers, shop, and insurance personnel.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	● Adapt rapidly to changing environments and/or stress.
Mobility/Motor Skills	Gross and fine motor abilities are sufficient to provide safe and effective movement and perform repairs within the auto collision work environment.	● Move around in work and repair areas. ● Stand and/or walk up to eight hours per day with or without breaks. ● Calibrate and use the equipment. ● Push/pull 50 lbs. or greater. ● Lift/move heavy objects up to 50 lbs. ● Pinch/pick or otherwise work with fingers. ● Make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble small objects.
Auditory Skills	Auditory abilities are sufficient to monitor and assess repair needs.	● Ability to focus on a single source of sound in the presence of other distracting sounds. ● Ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing that there is a problem. ● Hear auditory alarms (monitors, fire alarms, call bells). ● Hear cries for help.

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Visual Skills	Visual ability is sufficient for observation and assessments necessary in auto collision and refinishing.	● Observe vehicle damage and determine differences within colors. ● See objects up close to 20 feet away. ● Read electronic repair procedures and/or associated paper repair procedures.
Olfactory Skills	Olfactory ability sufficient to detect significant environmental and vehicle odors.	● Detecting odors from the environment and vehicles.
Environmental	Possess the ability to tolerate environmental stressors.	● Safely work with potentially harmful chemicals used in auto collision repair and refinishing. ● Practice standard precautions in the lab setting. ● Work in an unconditioned, close quartered, crowded and/or noisy space. ● Anticipate exposure to toxic substances and harmful chemicals used in auto collision repair and refinishing.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	● Calmly receive feedback. ● Demonstrate honesty and integrity beyond reproach.

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Additional Admission Requirements for Auto Collision and Management Program:

- Driver's license
- Current school required vaccinations
- Medical evaluation for respirator use
- Respirator fit test

Automation and Controls Technology

AAC TECHNICAL STANDARDS

All students in the Automation and Control Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards.

To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below. Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem-Solving Skills	Ability is sufficient to use basic computer and word processing skills. Demonstrate ability to remember, understand, apply, analyze and evaluate information.	Be able to create documents using Office Tools. Access information using the internet and in Canvas. Utilize and apply information gathered from printed and electronic resources. Process information from multiple sources. Collect, examine and interpret technical data. Logical approach to troubleshooting processes.
Interpersonal/Communication Skills	Ability to work and communicate with others whether face-to-face or through electronic means with professionalism and respect for persons from diverse social, emotional, cultural and intellectual backgrounds.	Respond with constructive feedback to instructors and/or other students. Function and contribute as part of a team. Mediate different point of views to determine the best solution.
Mobility/Motor Skills	Safely perform physical activities in a classroom and laboratory setting.	Move around and work in a classroom setting. Perform physical activities, including but not limited to maintenance, troubleshooting, repair and installation of equipment. Capable of wearing the appropriate personal protective equipment (PPE) for the required task.
Physical Senses Skills	The ability to use auditory, visual, tactile and olfactory senses to successfully perform the tasks of a technical student.	Distinguish and respond to sounds of equipment, instructor commands and communication from classmates. Distinguish shapes, colors, safety symbols and instructions. Read technical manuals. Use depth perception and peripheral vision. Utilize tools, meters and control equipment with hands-on abilities. Differentiate between the different odors from chemical, malfunctioning equipment and hazards.

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Environmental	Possess the ability to tolerate environmental stressors.	Tolerate variable indoor/outdoor temperatures. Safely work with potentially hazardous materials. Work in areas that are close, crowded and/or noisy. Ability to walk and stand for extended periods of time.
Emotional/Behavioral	Possess emotional stability sufficient to assume responsibility/accountability for actions and maintain composure in stressful situations.	Maintain composure and integrity, while navigating changing environments, stressful engineering decisions and professional disagreements. Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

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Automotive Technology

AUT TECHNICAL STANDARDS

Automotive programs have established technical standards to ensure that students have the abilities required to function in the classroom, lab and automotive service facility/shop environment. These standards are essential for the successful completion of all phases of the program which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient for sound automotive judgment. Reasoning skills sufficient to perform deductive/inductive thinking for diagnostic decisions.	• Evaluate vehicle PID data and draw sound conclusions for diagnosis. • Identify the cause, concern and correction of a vehicle problem. • Understand the negative effects on the human body due to unsafe lab practices.
Interpersonal Skills	Abilities are sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Establish rapport with customers, staff, colleagues, and groups. • Describe how to obtain and document customer contact information.

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Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Document and interpret vehicle concerns with the customer, service consultant and technician. • Demonstrate appropriate greeting skills.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Adapt rapidly to changing environments and/or stress.
Mobility/Motor Skills	Gross and fine motor abilities are sufficient to provide safe and effective vehicle service and repair.	• Quickly and repeatedly bend, stretch, twist, or reach out with body, arms and/or legs. • Coordinate the movement of arms, legs and torso together when the whole body is in motion. • Keep or regain body balance or stay upright when in an unstable position. • Exert self physically over long periods of time without getting winded or out of breath. • Push/pull 100 lbs. or greater. • Lift/move heavy objects up to 50 lbs. • Pinch/pick or otherwise work with fingers. • Work with greasy parts and tools, sometimes in uncomfortable positions.
Auditory Skills	Auditory abilities are sufficient to distinguish sounds.	• Hear sounds of a bad wheel bearing and/or CV joint. • Hear wind noises, such as a bad windshield seal. • Hear the different engine noises, cracked flex plate, collapsed lifter, lack of/no oil pressure, etc.
Visual Skills	Visual ability sufficient for observation and assessment during diagnosis.	• Read a vehicle repair order. • See objects up to 20 feet away. • Read electronic service information.
Tactile Skills	Tactile ability is sufficient for physical assessment.	• Distinguish the surface finish of a brake rotor. • Feel the surface finish of a honed cylinder block. • Feel the consistency of fluids to determine if grit is present.
Olfactory Skills	Olfactory ability sufficient to detect significant vehicle odors.	• Detect odors from vehicles, such as a sulfur smell from an overheated catalytic converter or overcharged battery. • Smell coolant or oil burning off of an exhaust manifold.

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Environmental	Possess the ability to tolerate environmental stressors.	• Safely work with potentially harmful chemicals used in automotive shop settings. • Practice standard precautions in the automotive shop or lab. • Work in areas that may be cold, hot and/or noisy.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach.

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Additional Admission Requirements for the Automotive Program:

- Driver's License (Coop, Internship, Practicum)

Avionics Technology

AVI TECHNICAL STANDARDS

The Avionics Technology program has adopted technical standards to ensure students have the abilities required to function in the avionics classroom/laboratory environment. These technical standards are essential for successful completion of the program. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
English Language Skills	Per FAA requirement, the ability to read, write and understand the English language.	
Attention to Detail	The ability of being careful about detail, accuracy and thoroughness in completing tasks.	• Attention to detail and accuracy when completing tasks while using avionic service tools and equipment.
Deductive Reasoning	The ability to apply general rules to specific problems to produce answers that make sense.	• Apply general rules specific to avionic systems to determine root cause of failures.
Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	• Identify audible sounds in avionic warning and detection systems.

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Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	Follow a specific order of operations that are critical to procedures in avionics.
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	Ability to perform calculations such as Ohms Law to solve avionics electrical/electronic system malfunctions.
Memorization	The ability to remember information, such as words, numbers, pictures, and procedures.	Perform routine inspection and maintenance procedures on avionic aircraft systems.
Number Facility	The ability to add, subtract, multiply, or divide quickly and correctly.	Perform calculations to determine performance test results are within the values of avionic system specifications.
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	Ability to follow supervisory directions and instructions on avionic systems.
Oral Expression	The ability to communicate information and ideas verbally so others will understand.	Communicate with material handlers and/or parts department to provide clear explanation of replacement units in avionics.
Perceptual Speed	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	Accurately compare similarities or differences when performing modifications and installation of avionic systems.
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.	Recognize issues of incorrect wiring, connector security and corrosion in avionics systems.
Selective Attention	The ability to concentrate on a task over a period of time without being distracted.	Focus on the task at hand when performing diagnostic tests, inspections and repairs without distraction.
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	Ability to visualize the outcome and fit when performing installations on aircraft.

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Written Comprehension	The ability to read and understand information and ideas presented in writing.	• Able to read service and repair instruction manuals in avionics and aircraft systems.
Written Expression	The ability to communicate information and ideas in writing so others will understand.	• Ability to write detailed descriptions of work performed on avionic systems to demonstrate compliance with rules and regulations.
Auditory Attention	The ability to focus on a single source of sound in the presence of other distracting sounds.	• Ability to listen and focus on aircraft audible warning systems without distraction.
Depth Perception	The ability to judge which of several objects is closer or farther away, or to judge the distance between self and an object.	• Ability to judge close and far away objects during movement, taxiing and towing of aircraft at facilities.
Hearing Sensitivity	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	• Aircraft avionic systems require the ability to detect different audio sounds that vary in pitch and frequency.
Night Vision	The ability to see under low light conditions.	• Aircraft electronic systems require precise near vision ability to service wiring harnesses.
Peripheral Vision	The ability to see objects or movement of objects to one's side when the eyes are looking ahead.	
Sound Localization	The ability to tell the direction from which a sound originated.	• Noise, vibration and harshness identification require the ability to determine where sound originated.
Speech Clarity	The ability to speak clearly so others can understand.	• Ability to speak clearly is required in an industrial aircraft repair facility due to excessive noise level environments.
Speech Recognition	The ability to identify and understand the speech of another person.	
Visual Color Discrimination	The ability to match or detect differences between colors, including shades of color and brightness.	• Match and/or differentiate between shades of color is required when working with electrical contacts and component color codes.

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Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	• Ability to keep limbs steady when removing, installing and testing avionic components.
Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	• Ability to operate tools and equipment that are used in avionic system repairs.
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble very small objects.	• Movements that are performed during avionic system test and repairs require precise coordination to prevent system component damage.
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	• Ability to perform movements that are required when servicing, testing or replacing avionic systems.
Multi-Limb Coordination	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing or lying down. It does not involve performing the activities while the whole body is in motion.	• Ability to use multi-limb coordination when boarding aircraft to perform avionics system repairs.
Rate Control	The ability to time movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.	• Ability to time movements to prevent equipment and or property damage in aircrafts and avionic systems.
Reaction Time	The ability to quickly respond (with the hand, finger or foot) to a signal (sound, light, picture) when it appears.	• For safety purposes, must have the ability to react quickly to prevent injury to self and/or others.
Response Orientation	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot or other body part.	• Ability to react with appropriate movements and body parts as the best course of action depending on the situation.
Speed of Limb Movement	The ability to quickly move the arms and legs.	• Ability to move quickly to meet time constraints on service, testing and repairs on aircraft avionic systems.
Wrist-Finger Speed	The ability to make fast, simple, repeated movements of the fingers, hands and wrists.	• Ability to move fingers, hands and wrists to conduct removal and installation of flight control systems.

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Dynamic Flexibility	The ability to quickly and repeatedly bend, stretch, twist, or reach out with body, arms and/or legs.	Performing work on aircraft systems requires the ability to move body parts when boarding, climbing and entering aircraft capsules.
Dynamic Strength	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	Dynamic strength is required when lifting, pushing and pulling significant weight bearing components.
Extent Flexibility	The ability to bend, stretch, twist, or reach with body, arms and/or legs.	Different configurations of small or large aircrafts require flexible mobility of body parts.
Gross Body Equilibrium	The ability to keep or regain body balance or stay upright when in an unstable position.	Equilibrium is necessary to keep in balance when working on the outermost surface of an aircraft to perform repairs.
Stamina	The ability to exert self physically over long periods of time without getting winded or out of breath.	Performing avionics repairs requires extensive periods of standing, sitting, stooping, and bending for long periods of time.
Static Strength	The ability to exert maximum muscle force to lift, push, pull, or carry objects.	Exerting excessive force is required for the task on hand when prying, pulling and/or pushing objects.
Trunk Strength	The ability to use abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing.	Strength required when handling aircraft modification, harnesses and mobile equipment.
Other	The ability to work in confined spaces that require significant flexibility.	Ability to be in confined spaces to perform work on avionics systems.

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Biology

BIO TECHNICAL STANDARDS

The Associate of Science in Biology degree provides the opportunity to complete the core curriculum of general education courses along with additional courses in the field of biology. All students in the Associate of Science in Biology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the

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program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Description	Examples
Critical Thinking/Problem-Solving Skills	Ability to develop and apply memory, comprehension, analysis, and evaluation skills.	• Apply general rules to specific problems to produce answers that make sense. • Generate or use different sets of rules for combining or grouping things in different ways. • Identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material. • Generate a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity). • Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events.) • Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations). • Remember information, such as words, numbers, pictures, and procedures. • Add, subtract, multiply, or divide quickly and correctly. • Listen to and understand information and ideas presented through spoken words and sentences. • Generate unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem. • Identify when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing that there is a problem. • Make sense of, combine, and organize information into meaningful patterns. • Imagine how something will look after it is moved around or when its parts are moved or rearranged. • Collect data, prioritize needs/tasks and anticipate results. • Identify cause-effect relationships in various situations.
Interpersonal Skills	Ability to interact safely with diverse instructors, staff and other students, whether face-to-face or through electronic means.	• Exhibit ethical behavior and exercise good judgment in keeping with Texas State Technical College's Code of Student Conduct as published in the Student Handbook. • Ask questions and/or seek assistance. Appropriately advocate for your own needs. • Follow simple instructions from faculty and staff. • Work in groups with other students to successfully complete a task.
Communication Skills	Abilities are sufficient for interaction with others in verbal, nonverbal or written form.	• Communicate information and ideas verbally so others will understand. • Read and understand information and ideas presented in writing. • Communicate information and ideas in writing so others will understand. • Comprehend written material to perform laboratory test procedures correctly and independently.

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Auditory Skills	Auditory abilities are sufficient for classroom or online needs.	• Distinguish and respond to sounds at a close range including, but not limited to, an instructor, other students in a classroom and audio recordings.
Visual Skills	Visual ability is sufficient for comprehending instructors' gestures, printed materials, images, or videos projected on a screen.	• Tolerate working indoors in artificial light and the glare of a computer screen. • Discern text from left to right and top to bottom for reading in English. • Identify similarities and differences in visual images. • Visual acuity to use scientific equipment safely and accurately.
Tactile Skills	Tactile ability is sufficient for written communication and handling of equipment.	• Use writing utensils, keyboards and computer controls. • Use manipulatives, calculators and scientific equipment. • Assess, examine and interpret findings through touch.
Mobility/Motor Skills	Physical abilities sufficient to function in a classroom or online setting while following the College's Code of Student Conduct so that the learning environment is not compromised. Gross and fine motor abilities are sufficient to communicate results.	• Perform physical activities to present knowledge and ideas (e.g. speak audibly and/or use a device/pen/marker/pointer, raise a hand, give thumbs up, etc. to indicate a response to a question). • Participate in class in the room environment with appropriate physical and verbal restraint. • Tolerate wearing personal protective equipment including but not limited to masks, safety goggles, aprons, and gloves. • Manipulate sensitive/hazardous materials in an appropriate manner. • Possess the psychomotor skills to manipulate various instruments that require eye-hand coordination, and perform manual laboratory procedures with dexterity.
Coping Skills	Abilities are sufficient for adapting to stress, adjusting to new situations, and adopting new mindsets and strategies for learning.	• Seek support and/or follow reporting procedures as needed for injuries, illness, Title IX concerns, etc. as outlined in the Student Handbook. • Solve personal and interpersonal problems. • Be flexible enough to try multiple ways to learn new things. • Cope with your own emotions. • Cope with strong emotions in others. • React to feedback in a professional manner.
Environmental Skills	Ability to tolerate environmental stressors.	• Tolerate indoor classroom environments with fluorescent lights and variable temperatures. • Safely work with potentially harmful chemicals used in lab settings. • Tolerate exposure to allergens (e.g. latex gloves), and strong odors and soaps.
Behavioral Skills	Possess sufficient emotional stability and self-regulation skills to assume personal responsibility and accountability for following the Code of Student Conduct and Code of Classroom Conduct as outlined in the Student Handbook .	• Engage in the learning process. • Receive and respond to constructive feedback. • Demonstrate honesty and integrity. • Adapt to, or deal with, the unexpected. • Focus attention on the task. • Meet reasonable, predetermined deadlines. • Exercise safe and sound judgment.

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Biomedical Equipment Technology

BET TECHNICAL STANDARDS

All students in the Biomedical Equipment Technology program are expected to meet certain technical standards that are essential for the successful completion of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient to apply engineering principles and practices to address technical problems and challenges in class and labs with medical equipment. Understand engineering and technical documents and interpret the data to solve problems.	• Use of a scientific calculator. • Mathematical tables/charts/references.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds. Must be able to effectively work in teams or groups.	• Work in a self-sufficient and self-directed manner. • Work in a team or group setting with students of different backgrounds, ethnicities or genders.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form. Effectively communicate using oral and written technical documents. Must be able to read equipment instructions and machine controls in English.	• Read technical specifications. • Read and understand machine labels, controls and instruction materials. • Give verbal directions or follow verbal directions from other members of the Biomedical team.
Coping Skills	Abilities are sufficient to be productive in a classroom or lab with medical equipment.	• Must be able to adapt to different teaching modes, lab settings or classroom environments. • Be able to work individually or in a group.

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Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction. Must be able to lift up to 50 pounds. Must be able to operate electrical/mechanical controls. Gross and fine motor abilities are sufficient to provide safe and effective preventive maintenance on medical equipment.	• Move around clinical operatories, operating rooms, sterilization rooms, and other treatment areas. • Administer CPR and BLS procedures. • Repair, calibrate and troubleshoot medical equipment. • Hand/eye coordination.
Auditory Skills	Auditory abilities are sufficient to work effectively and safely. Must be able to respond to audible indicators and discern potentially hazardous noises from medical equipment.	• Hear sound of medical equipment being properly utilized, the sound of slow/high-speed centrifuge and medical devices, proper use of electrical analyzers to monitor equipment functions. • Must be able to discern audible equipment alarms and tones. • Must be able to hear instructions from faculty in a workshop environment.
Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and other locations on the campus. Reading prints, schematics, charts and spreadsheets (written or on a computer monitor). Must be able to respond to visual alarms on medical equipment.	• Monitor medical equipment parameters and gauge equipment life cycles. • See and respond to warning light(s). • Read information on a computer monitor, TV or other screen devices (i.e., touchscreen or teach pendant). • Differentiate color wires on equipment.
Tactile Skills	Tactile skills adequate for work in a classroom or lab with industrial equipment. Have appropriate dexterity to use common industry hand tools.	• Use hand tools needed to complete labs or projects.
Environmental	Must be able to function safely under varying environmental factors. Must be able to wear lab-specific Personal Protective Equipment (PPE).	• Appropriately wear PPE, such as safety glasses, face shields, respirators, gloves, and hearing protection. • Tolerate course activities in an industrial lab with equipment noise and operating equipment.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Adapt rapidly to changing environments and/or stress. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach. • Must be able to work on multiple projects while adhering to deadlines.

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and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Additional Admission Requirements for the BET program are:

- Driver's License or Valid Identification Card
- Current Program Required Vaccinations

Building Construction Technology

BCT TECHNICAL STANDARDS

All students in the Building Construction Technology program are expected to meet certain technical standards that are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standard	Example
Critical Thinking & Problem-Solving Skills	Abilities sufficient for classroom, lab and work in an industry situation. Abilities sufficient to understand orders, instructions and descriptions. Abilities sufficient to read and comprehend construction blueprints, specifications, building codes, shop drawings, OSHA regulations, and warning labels in English.	• Be able to review construction blueprints for project coordination. • Be able to determine appropriate materials and tools required to complete the work. • Be able to be accurate with measurements using a measuring tape. • Apply logic and technical knowledge to current situations and problems. • Be able to make decisions to ensure safety during the work.
Interpersonal Skills	Abilities sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Establish and maintain mature, sensitive and effective relationships with colleagues, faculty, staff, and construction industry professionals. • Demonstrate time management skills. • Be able to work alone or in a group and stay focused on the current task.

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Communication Skills	Effective communication with others, both verbally and in writing. Abilities sufficient to effectively use a computer and tablet. Abilities sufficient to communicate with others effectively and clearly in English and to accurately gather, disseminate and clarify specific information.	● Demonstrate active listening skills. ● Speak clearly to others regarding specific tasks. ● Provide accurate and legible handwritten or electronically written reports. ● Communicate via email in a professional and ethical manner. ● Read, comprehend and communicate information for each assignment and lab to the instructor and other students. ● Comprehend/follow written and verbal instructions.
Coping Skills	Function and adapt to circumstances, including highly stressful or rapidly changing situations. Abilities sufficient to be productive in a classroom, lab or industry situation.	● Solve personal and interpersonal problems. ● Ability to effectively handle stress and continue to function safely in a variety of situations and interactions. ● Balance internal needs and external demands. ● Recognize personal limitations and request assistance as appropriate. ● Be able to cope with deadlines. ● Respond appropriately to constructive feedback.
Mobility/Motor Skills	Possess the ability to lift, stand, stretch, squat, and crawl or contort to any position as required by the situation. All positions listed above will be encountered in the class, lab or a work-based learning setting on a consistent basis. Possess excellent hand-eye coordination, flexibility, strength, dexterity, and balance. Abilities sufficient to climb a ladder or scaffolding without assistance.	● Be able to physically navigate around objects or obstacles on the floor or overhead. ● Reach/bend for extended periods of time without breaks. ● Operate hand and/or power tools continually in an acceptable and safe manner. ● Be able to work up to 90 minutes without taking a break. ● Be able to lift a dead weight of at least 40 lbs. to chest height from floor level without assistance. ● Be able to climb ladders up to 35 feet in length while carrying tools and equipment. ● Have the dexterity to use hand and power tools in confined spaces and at high elevations over six feet. ● Ability to move oneself about a construction site safely. ● Ability to properly use machinery while also wearing required PPE. ● Ability to climb a scaffold and perform the work in an acceptable and safe manner.

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Auditory Skills	Abilities sufficient to communicate with co-workers at a moderate distance without a line of sight. Ability to be comfortable working in an environment with loud noises. Auditory abilities are sufficient to hear and respond to instruction and communicate safely with others while surrounded by industrial noise.	• Willing to work in areas where decibel levels may exceed 85 decibels. • Ability to use/wear hearing protection. • Be capable of distinguishing various sounds, tones and pitches emitted by tools and equipment. • Be able to hear verbal instructions from co-workers at a moderate distance without line of sight. • Capable of responding to others over loud decibel tool operations.
Visual Skills	Visual ability (corrected or not) is sufficient for observation, assessment and safety necessary in both online and classroom environments, in lab settings, or in construction environments.	• Ability to see videos in classroom, online and in a lab environment. • Prepare and submit written and online reports. • Visual acuity to identify, read and understand directions and warnings on signs, equipment or materials. • Be able to see in low or poor lighting conditions due to lab requirements. • Read blueprints, specifications, sketches, schematic diagrams, and other printed documents. • Be able to visualize depth and dimension both straight and peripherally. • Able to clearly distinguish colors.
Tactile Skills	Tactile skills adequate for work in a class, lab or industry environment.	• Be able to determine hot or cold temperatures. • Inspect safety equipment, tools and materials for damage, wear or failure by touch.

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Environmental Awareness	Abilities are sufficient to maneuver safely on a construction site. Comfortable working at significant heights, in crawl spaces and in confined spaces. Able to wear the appropriate and required personal protective equipment as required in the performance of specific duties and by the industry. Abilities sufficient to function safely under varying environmental factors. Abilities sufficient to remain attentive in the classroom and lab settings.	• Practice standard safety precautions and regulations. • Able to wear a five pound tool belt for up to 10 hours per day. • Be able to wear the appropriate and required personal protective equipment, such as hard hats, safety glasses, steel-toe shoes, gloves, face mask, reflective vest, and safety harnesses for long periods of time as required in the performance of specific duties and by the industry. • Must be able to work in confined spaces or at heights up to 35 feet. • Must be able to work indoors and outdoors, in variable weather conditions, and both hot and cold temperatures. • Must be able to work in an environment containing hazards that include sharp objects, moving equipment, trip hazards, and uneven surfaces. • Must maintain focus and productivity in a noisy classroom, lab or workplace.
Emotional/Behavioral	Emotional stability is sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions. Ability to demonstrate professional behaviors and a strong work ethic.	• Must maintain focus and productivity in a noisy classroom, lab or workplace. • Adapt rapidly to changing environments and/or stressful situations. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach. • Demonstrate flexibility to calmly change course in the middle of an assignment.

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Business Management Technology

BMT TECHNICAL STANDARDS

All students in the Business Management Technology program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

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Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Utilize critical thinking skills to assemble, analyze, process, and communicate essential information about financial operations.	• Perform bookkeeping functions in a simulated case environment. • Complete the accounting cycle. • Calculate and report payroll and payroll-related liabilities. • Generate financial statements utilizing a computerized accounting software program. • Demonstrate an understanding of basic principles and practices of contemporary business. • Examine a company's industry and competitive environment. • Examine the functions of personnel/human resource management within an organization. • Summarize the use of ethical standards and norms as they relate to organizational culture. • Analyze current financial statements and identify financial needs for achieving organizational goals. • Identify legal and ethical issues relating to the industry.
Interpersonal Skills	Work collaboratively and effectively with a diverse population in a variety of settings and situations.	• Work cooperatively with partners and individuals. • Work diligently and devote the necessary time to complete tasks. • Exhibit behavioral and ethical skills appropriate to professional interactions. • Exercise good judgment.
Communication Skills	Effectively communicate (verbal and non-verbal) in the classroom and in a simulated business environment.	• Understand and respond to written and oral communications. • Use effective listening skills when communicating. • Express information coherently and sensitively. • Receive, organize, prioritize, and transmit information.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Solve personal and interpersonal problems. • Multitask in stressful environments and meet deadlines. • Ability to prioritize issues to meet deadlines.
Mobility/Motor Skills	Perform office functions such as sitting and standing for long periods of time. Possess good dexterity (eye and hand coordination).	• Use a computer to accurately perform duties related to accounting and data entry. • Use office equipment effectively.

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Auditory Skills	Comprehension and understanding of spoken language.	• Articulate necessary information in an understandable form. • Respond to verbal and written instructions. • Place and receive telephone or video calls for conducting business.
Visual Skills	Sufficient vision to perform accounting data analysis, data entry, preparation of reports, and usage of appropriate technology. Ability to work on a computer for up to three hours with breaks. Ability to read printed and written instructions.	• Ability to use computers to conduct simulated business transactions. • Ability to read and interpret business documents and forms necessary for simulated business transactions. • Work with columns of numbers with precision. • Demonstrate the ability to read and interpret financial documents and reports.
Tactile Skills	Use a computer keyboard, number keypad and mouse repetitively. Operate and utilize office materials and office equipment/software daily.	• Use a computer to accurately perform duties related to financial management and data entry. • Use various software programs required in the accounting field, including Microsoft Office, QuickBooks and various tax-related programs.
Environmental	Ability to tolerate reasonable levels of light, sound and temperature.	• Work in areas that may be close, crowded and/or noisy. • Prioritize requests and meet deadlines. • Multitask using different operating systems.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions. Demonstrate respect for self and others. Project an image of professionalism and a strong work ethic.	• Maintain a professional appearance and actions. • Exercise independent judgment to effectively solve problems and make decisions. • Adapt to changing environments and/or stress. • Demonstrate honesty and integrity beyond reproach. • Work independently with minimal supervision.

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Chemical Dependency Counseling

CDC TECHNICAL STANDARDS

Chemical Dependency Counseling programs have established technical standards to ensure that students have the abilities

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required to function in the classroom and counseling environments. These standards are essential for the successful completion of all phases of the program which reflect certification and licensure requirements.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification or licensure exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient for sound clinical judgment. Reasoning skills sufficient to perform deductive/inductive thinking for counseling decisions.	• Evaluate client or instrument responses, synthesize data and draw sound conclusions. • Collect data, prioritize needs and provide feedback. • Identify cause-effect in therapeutic counseling setting. • Transfer knowledge from one case to another.
Interpersonal Skills	Abilities are sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Establish rapport with clients, instructors, staff, colleagues, and groups. • Respect and care for clients whose appearance, condition, beliefs, and values may conflict with your own. • Develop therapeutic relationships regardless of the client's race, ethnicity, age, gender, religion, sexual orientation, or diagnosis. • Establish and maintain therapeutic boundaries. • Exhibit ethical behavior and exercise good judgment.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Document and interpret actions and client responses in a clear, professional and timely manner. • Convey information to clients and others as necessary to teach and direct in an accurate, effective and timely manner. • Recognize and report critical client information to the supervisor. • Read, write, comprehend, and speak the English language to facilitate communication with instructors, clients and their family members, and other mental health care professionals.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Adapt rapidly to changing environments and/or stress.
Mobility/Motor Skills	Gross and fine motor abilities are sufficient to provide safe and effective counseling sessions.	• Move around in work and treatment areas.
Auditory Skills	Auditory abilities are sufficient to monitor and assess mental health needs.	• Hear client narrative in session. • Hear auditory alarms (monitors, fire alarms, call bells).

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Visual Skills	Visual ability sufficient for observation and assessment necessary in counseling.	• Observe client responses and non-verbal cues. • Observe body language (e.g. threatening, self-harm, lethargy, intoxication, detoxification, agitation). • Read electronic health records and/or associated paper records.
Tactile Skills	Tactile ability is sufficient for counseling and documentation.	• Perform functions and/or those related to therapeutic counseling and documentation.
Olfactory Skills	Olfactory ability sufficient to detect significant environmental and client odors.	• Detecting odors from clients.
Environmental	Possess the ability to tolerate environmental stressors.	• Safely work with potentially combatant clients. • Practice Standard Precautions in the clinical counseling setting. • Anticipate exposure to potentially agitated clients.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Calmly provide and receive feedback. • Demonstrate honesty and integrity beyond reproach. • Maintain ethical standards. • Maintain sobriety.

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Additional Admission Requirements:

- Student's must review regulations and criteria that determine eligibility for licensure per the Texas Administrative Code 25 TAC Section 140.431 and be able to pass the criminal history standards in [140.431](#)

Computer Networking & Systems Administration

CNS TECHNICAL STANDARDS

All students in the Computer Networking & Systems Administration program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

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needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Make reasoned judgments that are logical and well-thought-out.	• Receive, interpret and correctly complete work (ie: reading, research, writing, and presentations). • Evaluate case studies and problems and identify appropriate approaches to solve the problem. • Identify cause and effect relationships in IT situations. • Interpret user requirements to design a workable solution for the user. • Develop practical solutions in a simulated and live environment.
Attention to Detail	The ability to carefully and accurately focus on small details, ensuring that tasks are completed correctly and efficiently.	• Identifying and resolving complex technical issues often requires a keen eye for detail to spot subtle errors or inconsistencies. • Accurately interpreting and analyzing data requires careful attention to detail to avoid misinterpretations and errors. • Capture key details from lectures, discussions and readings.
Learning Agility	Students will need the ability to learn and adapt to new technologies quickly.	• Actively seek out new information, skills and perspectives through reading and engaging in diverse conversations. • Resilience is essential for staying motivated and engaged in the learning process.
Time management skills	Computer networking professionals often have to juggle multiple tasks and deadlines. Students need to be able to manage their time effectively to meet deadlines and ensure that networks are operating smoothly.	• Clearly define goals and prioritize tasks based on their importance and urgency. • Regularly review schedules and make adjustments as needed. As priorities and workload change, it may be necessary to adapt time management strategies.

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Interpersonal Skills	Interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds with different IT skill sets.	• Propose and present ideas and achieve buy-in, consensus and decisions. • Follow the directions of instructors, fellow students and potential/actual clients. • Establish rapport with clients and colleagues. • Demonstrate sufficient emotional health to perform under stress, exercise good judgment, and promptly complete all academic and work-based learning responsibilities. • Complete group projects that require interaction with peers, including online interaction and the interpretation of written communication. • Accept feedback on projects and adapt to changing project scope. • Know how to ask for help when needed.
Communication Skills	Communicate (both written and verbal) with peers, faculty, colleagues, and members of the community.	• Provide and follow directions from other members of the class or instructors. • Present ideas and create presentations to convey those ideas. • Demonstrate active listening skills. • Work as a professional group member. • Present information to panels of instructors and advisory boards in both verbal and written form. • Receive, organize, prioritize, and transmit information. • Document problems and procedures (verbally, written and electronically). • Adapt communication to individuals' abilities to understand.
Coping Skills	Maintain a state of harmony.	• Solve personal and interpersonal problems. • Minimize stress and conflict. • Balance internal needs and external demands.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction.	• Use peripheral devices to communicate with a computer. • Possess gross and fine motor abilities sufficient to safely and effectively handle computer equipment. • Physical abilities are sufficient to move and manipulate around equipment in limited spaces. • Be able to stand, sit and walk when completing computer tasks.

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Auditory Skills	Communicate with the instructor, employers and colleagues.	• Discern directions in classroom, online and lab environments. • Review videos in the classroom, online and lab environment. • Discern instructions and responses that define problems or issues.
Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom or work environment.	• Observe computer issues and possible problems. • Observe client responses (ie: change in tone, facial expression, body language). • Review documents (both printed and online).
Tactile Skills	Tactile skills are sufficient for observation and assessment necessary in the classroom or work environment.	• Inspect components for wear or failure. • Identify problems such as overheating.
Environmental	Adapt to changing environments.	• Practice standard safety precautions in the field. • Work in areas that may be close, crowded and/or noisy. • Adapt to changes in class or work environment such as virtual or alternative schedules. • Remain calm in stressful situations.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Adapt rapidly to changing environments and/or stress. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach. • Control emotions for the benefit of others.

Computer Programming Technology

CPT TECHNICAL STANDARDS

All students in the Computer Programming Technology program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem-Solving Skills	Make reasoned judgments that are logical and well-thought-out. Accurately follow directions for assignments/ assessments.	• Receive, interpret, and correctly complete work (i.e.: reading, research, writing, and presentations). • Evaluate case studies and problems, and identify appropriate approaches to solve the problem. • Identify cause-and-effect relationships in programming situations. • Interpret user requirements to design a workable solution for the user. • Develop practical solutions in a simulated and live environment. • Reading program requirements or soliciting program requirement information from an instructor, employer or client and using that information to code/design a computer program that achieves the objectives given.
Interpersonal Skills	Interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds with different IT skill sets.	• Propose and present ideas. • Follow the directions of instructors, fellow students and potential/actual clients. • Engage with instructors to learn and improve performance based on assignment feedback. • Demonstrate sufficient emotional health to perform under stress, exercise good judgment, and promptly complete all academic and work-based learning responsibilities. • Complete group projects that require interaction with peers, including online interaction and the interpretation of written communication. • Accept feedback on projects and adapt to changing project scope. • Know how to ask for help when needed.
Communication Skills	Communicate (both written and verbal) with peers, faculty, colleagues, and members of the community.	• Provide and follow directions from other members of the class or instructors. • Present ideas and create presentations to convey those ideas. • Demonstrate active listening skills. • Work as a professional group member. • Present information to panels of instructors, in both verbal and written form. • Receive, organize, prioritize, and transmit information. • Document problems and procedures (verbally, written, and electronically). • Interact in conversations with instructors and peers.
Coping Skills	Maintain a state of harmony.	• Solve personal and interpersonal problems. • Minimize stress and conflict. • Balance internal needs and external demands.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction.	• Use peripheral devices to communicate with a computer. • Possess gross and fine motor abilities sufficient to safely and effectively handle computer equipment. • Physical abilities are sufficient to move and manipulate around equipment in limited spaces. • Be able to stand, sit and walk when completing computer tasks.
Auditory Skills	Communicate with the instructor, employers and colleagues.	• Discern directions in classroom, online and lab environments. • Review videos in the classroom, online and lab environment. • Discern instructions and responses that define problems or issues.

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Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom or work environment.	• Observe computer issues and possible problems. • Observe client responses (ie: change in tone, facial expression, body language). • Review documents (both printed and online).
Tactile Skills	Tactile skills are sufficient for observation and assessment necessary in the classroom or work environment.	• Inspect components for wear or failure. • Identify problems such as overheating.
Environmental	Adapt to changing environments.	• Practice standard safety precautions in the field. • Work in areas that may be close, crowded and/or noisy. • Adapt to changes in class or work environment such as virtual or alternative schedules. • Remain calm in stressful situations.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Adapt rapidly to changing environments and/or stress. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach. • Control emotions for the benefit of others.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Computer Science

COS TECHNICAL STANDARDS

All students in the associate degree in computer science program are expected to meet certain technical standards which are essential for its successful completion, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Description	Examples

Critical Thinking/Problem Solving Skills	Ability is sufficient to use mathematical skills for solving problems in a variety of computer science contexts. Demonstrate ability to remember, understand, apply, analyze and evaluate information.	• Generate or apply various rules for combining or grouping elements in diverse ways. • Apply general rules to specific problems, producing logical answers. • Identify or detect known patterns (figures, objects, words or sounds) within distracting material. • Generate numerous ideas about a topic (prioritizing quantity rather than quality, correctness or creativity.) • Synthesize information to create general rules or conclusions (including finding relationships among seemingly unrelated events.) • Arrange items or actions in a specific order or pattern according to a designated rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations.) • Select the appropriate mathematical methods or formulas to solve problems. • Perform basic arithmetic operations (addition, subtraction, multiplication or division) quickly and accurately. • Compare similarities and differences rapidly and accurately among sets of letters, numbers, objects, pictures or patterns, including comparing presented objects with remembered ones. • Recognize when something is wrong or likely to go wrong, without necessarily solving the problem. • Swiftly make sense of, combine and organize information into coherent patterns. • Imagine the appearance of an object after it has been moved or rearranged.
Interpersonal Skills	Ability to interact with others whether face-to-face or through electronic means with professionalism and respect for persons from diverse social, emotional, cultural and intellectual backgrounds.	• Respond to instructors and/or other students with respect for their viewpoints whether in a traditional, face-to-face classroom or online. • Function and contribute as part of a team. • Exhibit ethical behavior and exercise good judgment in keeping with Texas State Technical College's Code of Student Conduct as published in the Student Handbook. • Negotiate interpersonal conflict.

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Communication Skills	Abilities sufficient for interaction with others in verbal, nonverbal and written form.	• Listening to and understanding information and ideas conveyed through spoken words and sentences. • Verbally communicate information and ideas effectively. • Read and understand information and ideas presented in the text. • Effectively communicate information and ideas in writing. • Articulate words clearly for easy understanding by others.
Auditory Skills	Auditory abilities are sufficient for classroom or online needs.	• Distinguish and respond to sounds at a close range including but not limited to an instructor, other students in a classroom and audio recordings. • Concentrate on a single sound source amidst other distracting noises. • Determine the origin of a sound.
Visual Skills	Visual ability is sufficient for comprehending printed materials, images or videos projected on a screen.	• Tolerate working indoors in artificial light and the glare of a computer screen. • Read printed or electronic documents. • Perceive objects or movement in one's peripheral field while looking straight ahead.
Tactile Skills	Tactile ability is sufficient for written communication and handling of equipment.	• Utilize instrumentation tools, technology and scientific equipment.
Mobility/Motor Skills	Physical abilities sufficient to function in a classroom or online setting while following the College's Code of Student Conduct so that the learning environment is not compromised.	• Perform physical activities including but not limited to the manual dexterity sufficient to operate a computer, keyboard or other lab equipment.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Focus on a task over an extended period without distractions. • Switch between two or more activities or information sources (such as speech, sounds, touch or other sources) seamlessly. • Seek support and/or follow reporting procedures as needed for injuries, illness, Title IX concerns, etc. as outlined in the Student Handbook. • Solve personal and interpersonal problems. • Cope with your own emotions. • Cope with strong emotions in others.

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Environmental	Possess the ability to tolerate environmental stressors.	Know your location in relation to the environment or to know where other objects are in relation to you.
Behavioral	Possess sufficient emotional stability and self-regulation skills to assume personal responsibility and accountability for following the Code of Student Conduct and Code of Classroom Conduct as outlined in the Student Handbook .	- Maintain composure and integrity, while navigating changing environments, stressful classroom situations and professional disagreements. - Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Culinary Arts

CLN TECHNICAL STANDARDS

All students in the Culinary Arts program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem Solving Skills	Ability sufficient for the classroom, lab and work in industry situations.	- Adjust recipe amounts, analyze and calculate ingredient proportions and cooking times for quantity changes. - Respond effectively to kitchen emergencies based on training knowledge to make quick decisions under pressure, considering safety and operational concerns. - Plan, manage and produce food products according to time parameters indicated. - Practice and adhere to National Restaurant Association ServSafe sanitation standards.

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Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds. Ability to collaborate and effectively build a cohesive and efficient team.	• Cooperate effectively and professionally as a team with classmates during projects and kitchen labs. • Demonstrate collaboration, shared responsibilities, and adapt to diverse roles in a classroom and kitchen lab environment. • Respond effectively to constructive feedback from peers, instructors and customers and implement feedback for continuous improvement. • Maintain a cooperative spirit in a challenging environment while working in a hot area with limited space. • Respect and care for customers and fellow students whose appearance, condition, beliefs, and values may conflict with your own. • Demonstrate sufficient emotional health to perform under stress, exercise good judgment and promptly complete all academic and work-based learning responsibilities.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Speak and write clearly and distinctly. • Provide or follow verbal directions from classmates or instructors. • Demonstrate engaged and active listening skills during class discussions, lectures and lab activities. • Maintain focus on the instructor or classmates during lectures, discussions and labs.
Coping Skills	Ability to maintain a state of harmony, ensuring balance and efficiency.	• Solve personal and interpersonal problems, effectively contribute ideas, and work collectively to address challenges in the classroom or lab environment. • Maintain composure and effectively manage stress and conflict. • Demonstrate resilience during pressure, stay focused and organized.

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Mobility/Motor Skills	Physical abilities sufficient to safely navigate the kitchen and lab environment. Gross and fine motor abilities are sufficient to provide safe and effective culinary procedures.	• Coordination, dexterity (eye and hand coordination) and agility required to handle kitchen tools, utensils and equipment. • Perform kitchen functions while standing for long periods of time. • Move safely between workstations near other students and equipment. • Lift containers (bulk and prep) individually and in coordination with other students. • Lift supplies from the floor, pallet or table and place them on storage racks. • Remove supplies from storage racks above head at standard height. • Hold containers such as pots and bowls while mixing and blending ingredients in those containers. • Operate machinery and equipment safely and efficiently. • Safely use knives and other commercial cooking equipment. • Execute culinary techniques with accuracy, including whisking, dicing, piping, and other cooking methods.
Auditory Skills	Auditory abilities are sufficient to work effectively and safely. Ability to accurately perceive, process and respond to sounds during a lab kitchen environment.	• Hear the instructor's voice in a noisy kitchen/lab environment to receive verbal instruction and communicate across kitchen stations. • Comprehend spoken instructions to ensure accurate execution of culinary tasks. • Hear and respond to alarms, timers signaling food preparation stages, equipment status, or potential hazards. • Recognize auditory cues related to food preparation, such as sizzling, boiling or other sounds that indicate the progress and readiness of the cooking process.
Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and industry situations.	• Read written instructions, ingredient labels, recipes, and menu details. • Viewing of the instructor's demonstrations. • Visually assess and distinguish characteristics of various ingredients, including freshness, color, texture, and quality. • Visually assess and analyze cooking preparation and cooking to ensure dishes are prepared with precision and according to standards. • Visually identify safety and sanitation practices in the kitchen. • Read temperature and pressure gauges. • Read safety labels and warnings such as specific Safety Data Sheets (SDS).

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Tactile Skills	Tactile ability is sufficient for the assessment of food products.	• Taste, smell and feel products to determine quality and doneness. • Feel resistance and texture of different foods during chopping and slicing. • Employ hand-forming techniques to ensure uniform shapes and textures. • Use tactile judgment to apply appropriate techniques for tenderizing, cutting and determining thickness.
Environmental	Possess the ability to tolerate environmental stressors and function safely. Ability to tolerate and adapt to factors such as heat, noise and other conditions in a kitchen environment.	• Utilize proper lifting techniques and safely move pots, pans, stockpots, and small equipment. • Lift and move bags and boxes of supplies weighing up to 50 pounds, ensuring safe and efficient transport. • Stand and move safely in kitchen and dining areas during food preparation and service for up to six hours. • Lift and transport trays with plated foods, china and small wares. • Serve and clear tables where guests are seated. • Complete cleaning responsibilities requiring stooping, bending and climbing.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Adapt rapidly to changing environments and/or stress. • Take responsibility for errors in the kitchen to contribute to accountability and continuous improvement. • Exercise patience when learning new culinary techniques, calmly receive feedback and respond with an open mindset. • Demonstrate honesty and integrity beyond reproach. • Collaborate and interact respectfully with classmates and instructors. • Demonstrate professionalism with classmates and instructors. • Demonstrate empathy and consideration to classmates, recognizing the impact of actions and words.

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Cybersecurity

CYS TECHNICAL STANDARDS

All students in the Cybersecurity program are expected to meet certain technical standards which are essential for the

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successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Make reasoned judgments that are logical and well-thought-out.	• Apply detailed analytical process(s) to identify, predict and troubleshoot technical issues. • Evaluate and implement practical/functional solutions in response to noted issues. • Apply mathematical methods or formulas to solve problems. • Gather and synthesize relevant data and evidence from reliable sources (reports, logs, alerts, etc.) to make informed strategic decisions and/or develop proactive strategies or solutions.
Interpersonal Skills	Interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds with different IT skill sets.	• Actively contribute and participate in collaborative/group activities with shared responsibility and accountability. • Practice active listening and provide constructive feedback to improve positive group workflow and productivity. • Foster an open and positive work environment through trust, empathy and integrity.
Communication Skills	Communicate (both written and verbal) with peers, faculty, colleagues, and members of the community.	• Communicate clearly and effectively with others (technical/non-technical), both verbally and in writing (including technical reports/ documentation, presentations, peer collaboration/discussions.)
Coping Skills	Maintain a state of harmony.	• Manage time effectively to minimize stress and conflict. • Develop and nurture strong relationships, friendships and connections with peers and instructors.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction.	• Use peripheral devices to communicate with a computer. • Possess gross and fine motor abilities sufficient to safely and effectively operate computer and network equipment. • Make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble objects, to include removal and replacement of computer components. • Enter text or data into a computer or network equipment by means of a traditional keyboard.
Auditory Skills	Communicate with the instructor, employers and colleagues.	• Focus on a single source of sound in the presence of other distracting sounds (computer/network equipment.) • Discern directions in classroom, online and lab environments. • Review videos in the classroom, online and lab environment. • Discern instructions and responses that define problems or issues.

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Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom or work environment.	• Observe and inspect physical condition of computer components and results of diagnostic tools. • Monitor activity on computer display/devices for signs of computer/network issues. • View/manipulate and enter data on computer screen displays, images, productivity tools (data visualization - color code or intensity on computer screen displays, images, device status lights.) • Observe others responses while communicating information (ie: change in tone, facial expression, body language) to affirm and reinforce proper communication.
Tactile Skills	Tactile skills are sufficient for observation and assessment necessary in the classroom or work environment.	• Inspect computer components and/or network equipment for wear or failure.
Environmental	Adapt to changing environments.	• Adopt a mindset of a lifelong learner to help keep up with changing technology (expect to continually learn and be open to the latest trends, new technologies, and evolving security challenges.) • Manage unexpected circumstances by being flexible and optimistic, requesting opportunities to work on tasks that may be a new learning experience or offer new responsibilities.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Identify the source of unwanted emotional response and their triggers. • Manage emotional/behavioral responses by identifying healthy strategies/approaches for handling or reducing exposure to future stress inducing situations.

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Dental Hygiene

DHY TECHNICAL STANDARDS

The Dental Hygiene profession and industry standards require a variety of essential job functions in the clinical environment. To meet those essential job functions, all students in the TSTC Dental Hygiene program are expected to meet the required technical standards essential for the successful completion of all phases of the program listed in the table below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem-Solving Skills	Ability is sufficient for clinical judgment. Reasoning skills sufficient to perform deductive/inductive thinking for patient care decisions.	● Assimilate knowledge from lecture, laboratory and clinical arenas. ● Evaluate client or instrument responses, synthesize data and draw sound conclusions ● Collect data, prioritize needs, and anticipate reactions. ● Identify cause-effect relationships in clinical situations. ● Transfer knowledge from one situation to another. ● Develop a dental hygiene care plan.
Interpersonal Skills	Abilities are sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	● Establish rapport with clients, instructors, staff, colleagues, and groups. ● Respect and care for clients whose appearance, condition, beliefs, and values may conflict with your own. ● Deliver patient care regardless of the client's race, ethnicity, age, gender, religion, sexual orientation, or diagnosis. ● Establish and maintain therapeutic boundaries. ● Exhibit ethical behavior and exercise good judgment.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	● Document and interpret actions and client responses in a clear, professional and timely manner. ● Convey information to clients and others as necessary to teach and direct in an accurate, effective and timely manner. ● Recognize and report critical client information to other caregivers. ● Read, write, comprehend, and speak the English language to facilitate communication with instructors, clients and their family members, and other health care professionals.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	● Adapt rapidly to changing environments and/or stress. ● Solve personal and interpersonal problems. ● Balance internal needs and external demands.

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Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction. Gross and fine motor abilities are sufficient to provide safe and effective dental hygiene skills.	• Move around clinical operatories, dark rooms, sterilization rooms, and other treatment areas. • Position chairside in close proximity to the patient. • Administer CPR and BLS procedures. • Reach radiographic equipment, which is approximately 5-6 feet off the floor. • Transfer patients from wheelchairs to dental chairs and back. • Move, calibrate and use equipment, dental materials and supplies, including sharp instruments, during operative procedures. • Use ancillary aids chairside, including medical manikins, small equipment, etc. • Hand/eye coordination.
Auditory Skills	Auditory abilities are sufficient to monitor and assess health needs.	• Hears patients. • Hear cries for help/distress. • Hears the sound of instruments being properly utilized. • Hears the sound of slow/high-speed handpiece, ultrasonic instruments, etc. • Monitors vital signs and hears heartbeats through the use of a stethoscope.
Visual Skills	Visual ability sufficient for observation and assessment necessary in dental hygiene procedures.	• Observe client responses, such as skin color and facial expression. • Monitor vital signs. • Notes gingival description and pocket depths (read probe) – healthy vs. disease state, including color changes. • Evaluates radiographs for technical quality, including density, contrast and distortion. • Able to read records. • Notes color changes in dental materials which indicates reactions occurring.
Tactile Skills	Tactile ability is sufficient for physical assessment.	• Perform palpation techniques (EO/IO exam), functions of a dental hygiene exam, and/or those related to therapeutic intervention (e.g. scaling, root planing and deposit assessment).
Olfactory Skills	Olfactory ability sufficient to detect significant environmental and client odors.	• Detect odors from clients.

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Environmental	Possess the ability to tolerate environmental stressors.	• Safely work with potentially harmful chemicals used in health care settings. • Practice Standard Precautions in the dental setting. • Work in areas that are close, crowded and/or noisy. • Anticipate exposure to communicable diseases, body fluids and toxic substances.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Adapt rapidly to changing environments and/or stress. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Additional Admission Requirements for the Dental Hygiene Program:

- Driver's license.
- Current CPR card.
- Current Program Required Vaccinations.
- Drug screening before beginning the program in the Fall semester and annually every Fall semester.
- Background check before beginning the program in the Fall semester and annually every Fall semester.
- Malpractice, Health and Accident, and Needlestick Insurances upon beginning the program in the Fall semester and annually every Fall semester.

Diesel Equipment Technology

DET TECHNICAL STANDARDS

Diesel Equipment Technology programs have instituted a set of technical standards designed to ascertain that students possess the requisite skills and competencies necessary for effective participation in academic, laboratory and automotive service facility settings. These standards are crucial for the comprehensive and successful completion of all aspects of the program and are reflective of the demands and benchmarks prevalent in the industry.

It should be noted, however, that meeting these technical standards does not ensure post-graduation employment in the field. Furthermore, fulfilling the program's technical criteria does not automatically qualify a student for certification examinations, nor does it guarantee successful completion of the program. These standards serve as a foundational benchmark, and students must actively engage and excel in all program components to achieve professional readiness and competency.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem Solving Skills	Diagnosing Complex Issues Developing Effective Solutions Prioritizing Tasks Ensuring Safety	• Needs to systematically analyze symptoms, understand the interplay of different components and identify the root cause of a problem. • Must devise practical and efficient solutions. • Prioritizing these tasks based on urgency, complexity and available resources. • Identify potential safety hazards related to diesel engines and their repair.
Interpersonal Skills	Effective Communication Team Collaboration Customer Service Conflict Resolution	• Clear and effective communication helps ensure that information is conveyed accurately and understandably. • Good interpersonal skills enable a technician to work effectively with colleagues. • The ability to listen actively, empathize and respond appropriately to customer concerns is essential. • Can help resolve conflicts constructively, maintaining a positive work atmosphere.
Communication Skills	Explaining Technical Information Collaboration with Colleagues Customer Service Documenting Work	• Need to explain complex technical details about diesel engines and systems to customers who may not have technical knowledge. • Communication is crucial when working in a team. • Understanding the customer's needs, and setting clear expectations. • Need to document their work accurately for records, future reference, or to communicate issues and actions taken to others.
Coping Skills	Stress Management Adapting to Rapid Change Problem Solving Under Pressure Dealing with Failure or Mistakes Handling Customer Complaints	• The role of a diesel technician can be high-pressure, especially when dealing with complex repairs or tight deadlines. • Allow technicians to adapt to new technologies and changes without becoming overwhelmed. • Technicians often face challenging problems that need immediate solutions. Coping skills help in maintaining composure and clarity of thought during these situations. • Help technicians deal with setbacks constructively, learning from mistakes rather than being demoralized by them. • Are necessary to handle dissatisfied or difficult customer interactions professionally and calmly.

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Mobility/Motor Skills	Manual Dexterity Working in Tight Spaces Coordination and Balance Using Specialized Equipment Safety in the Workplace Physical Strength and Stamina	• Fine motor skills are necessary for tasks like assembling and disassembling components, using hand tools and making precise adjustments. • Technicians frequently need to maneuver in confined spaces within engine compartments or under vehicles. • Tasks may involve working in awkward positions or standing for long periods. • Exert self physically over long periods of time without getting winded or out of breath. • Operating specialized diagnostic and repair equipment often requires good hand-eye coordination and fine motor control. • Proper mobility and motor skills are essential to adhere to safety protocols, especially when handling heavy equipment or working in potentially hazardous environments. • Pinch/pick or otherwise work with fingers. • The job can be physically demanding, requiring lifting heavy parts and tools.
Auditory Skills	Client Interaction Quality Control Detecting Mechanical Issues Safety in the Workplace Environmental Awareness	• Descriptions of problems often include sounds clients' vehicles are making. • Needs to confirm that there are no unusual noises after repairs. • Changes in engine sounds, such as knocks, rattles or hums. • The ability to hear alarms, warning shouts or noises from machinery is essential for maintaining safety. • Being aware of the surrounding environment through sound helps in navigating busy or cluttered workshop spaces.

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Visual Skills	Diagnosing Issues Reading and Interpreting Diagrams Detecting Subtle Changes Safety Quality Control	• A significant part of diagnosing problems in diesel engines involves visual inspection. Technicians need to identify signs of wear, damage or malfunction in components. • Technicians frequently use manuals and diagrams, which require the ability to understand and interpret complex visual information. • Spotting subtle changes in parts or fluids, like discoloration or small leaks, can be crucial in early problem identification. • Good vision is essential for safety in the workshop, allowing technicians to notice potential hazards, read safety labels and operate machinery safely. • Visual inspection is a key aspect of quality control, ensuring that repairs are completed correctly and to standard.
Tactile Skills	Handling Tools and Equipment Assembling and Disassembling Parts Evaluating Wear and Tear	• Tactile skills are crucial for manipulating tools and equipment accurately, especially in tight or hard-to-reach spaces. • Tactile feedback is important for assembling and disassembling complex parts, where precision and careful handling are key. • By feeling for roughness, irregularities or wear in parts, technicians can assess their condition and decide whether replacement or repair is needed.
Olfactory Skills	Identifying Fluid Leaks Detecting Burning or Overheating Identifying Electrical Issues Chemical Safety	• Different vehicle fluids (like oil, coolant, transmission fluid) have distinct smells. Recognizing these can help quickly identify leaks and their sources. • The smell of burning, whether from overheated engines, brakes or electrical components, can be an early warning sign of malfunction or potential hazards. • The distinct smell of burning insulation can indicate electrical issues, which are important to address promptly to avoid further damage or safety risks. • Being able to detect the presence of harmful chemicals or solvents through smell can help in taking quick action to ensure proper ventilation and safety.

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Environmental	Compliance with Environmental Regulations Proper Waste Management Use of Sustainable Practices Health and Safety	● Diesel technicians must be aware of and comply with environmental regulations related to vehicle emissions, disposal of hazardous materials, and other industry-specific environmental standards. ● Handling and disposing of automotive fluids, batteries and other potentially hazardous materials properly is essential to prevent environmental contamination. ● Awareness of sustainable practices, such as recycling parts or using environmentally friendly products, can help reduce the overall environmental impact of their work. ● Environmental awareness includes understanding the health and safety impacts of various chemicals and practices, both for personal safety and the well-being of others.
Emotional/Behavioral	Stress Management Professionalism Adaptability Customer Service Teamwork and Collaboration	● The job can be high-pressure and demanding, with tight deadlines and complex problems. Being able to manage stress effectively is crucial to maintain focus and efficiency. ● Maintaining a professional demeanor, even in challenging situations, is important for workplace harmony and customer satisfaction. ● Technicians often encounter unforeseen challenges and changes. The ability to adapt emotionally and behaviorally to these situations is key to success. ● Handling customer interactions with empathy, patience, and understanding is essential, especially when dealing with frustrated or dissatisfied clients. ● Working effectively with others requires good interpersonal skills, emotional intelligence and the ability to navigate different personalities and team dynamics.

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DMD TECHNICAL STANDARDS

All students in the Digital Media Design program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Students should be able to make reasoned judgments that are logical and well-thought-out when receiving information for a project and then identify an approach to solve the problem.	• Receive, interpret and correctly complete work (i.e., reading, research, writing, and presentations). • Evaluate case studies and problems, and identify appropriate approaches to solve the problem. • Identify cause and effect relationships in IT situations. • Interpret user requirements to design a workable solution for the user. • Develop practical solutions in a simulated and live environment. • Produce original, unusual and/or clever ideas about a given topic or situation. • Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events). • Apply general rules to specific problems to produce answers that make sense. • Imagine how something will look after it is moved around or when its parts are moved or rearranged. • Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations). • Quickly make sense of, combine and organize information into meaningful patterns. • Quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object. • Determine when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem. • Remember information such as words, numbers, pictures, and procedures. • Generate or use different sets of rules for combining or grouping things in different ways. • Identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.
Interpersonal Skills	Students should be able to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds with different IT skills sets.	• Propose and present ideas to achieve buy-in, consensus, and make decisions. • Follow the directions of instructors, fellow students and potential/actual clients. • Establish rapport with clients and colleagues. • Complete group projects that require interaction with peers, including online interaction and the interpretation of written communication. • Accept feedback on projects and adapt to changing project scope. • Know how to ask for help when needed.

Communication Skills	Students should be able to communicate both written and verbally with peers, faculty, colleagues, and members of the community.	• Provide and follow directions from other members of the class or instructors. • Present ideas and create presentations to convey those ideas. • Demonstrate active listening skills. • Communicate information and ideas in writing so others will understand. • Read and understand information and ideas presented in writing. • Present information to panels of instructors and advisory boards, in both verbal and written form. • Receive, organize, prioritize, and transmit information. • Document problems and procedures (verbally, written and electronically). • Adapt communication to individuals' abilities to understand. • Identify and understand the speech of another person.
Coping Skills	Students should be able to concentrate on a task over a period of time without being distracted and minimize stress and conflict.	• Solve personal and interpersonal problems. • Minimize stress and conflict. • Balance internal needs and external demands.
Mobility/Motor Skills	Students should be able to possess gross and fine motor abilities sufficient to safely and effectively handle computer equipment, cameras and drawing tools.	• Use peripheral devices to communicate with a computer. • Possess gross and fine motor abilities sufficient to safely and effectively handle computer equipment. • Physical abilities are sufficient to move and manipulate around equipment in limited spaces. • Be able to stand, sit and walk when completing computer tasks.
Auditory Skills	Students should be able to understand audible directions in an online lab or by reviewing instructional videos. Students should be able to focus on a single source of sound in the presence of other distracting sounds.	• Discern directions in classroom, online and lab environments. • Review videos in the classroom, online and lab environments. • Discern instructions and responses that define problems or issues. • Speak or gesture clearly in order for others to understand. • Focus on a single source of sound in the presence of other distracting sounds. • Detect differences between sounds that vary in pitch and loudness. • Detect the direction from which a sound originated.

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Visual Skills	Students should be able to have sufficient visual ability for observation and assessment necessary in the classroom or work environment.	• Observe computer issues and possible problems. • Observe client responses (i.e., change in tone, facial expression, body language). • Review documents (both printed and online). • Determine which of several objects is closer or farther away from you, or to judge the distance between you and an object. • See details at a distance. • See objects in the presence of glare or bright lighting. • See details at close range (within a few feet of the observer). • See objects or movement of objects to one's side when the eyes are looking ahead.
Tactile Skills	Students should be able to have the tactile skills necessary for observation and assessment in a classroom or work environment.	• Inspect components for wear or failure. • Identify problems such as overheating. • Match or detect differences between colors, including shades of color and brightness.
Environmental	Students should be able to adapt to changes in a class or work environment and remain calm in stressful situations.	• Shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).
Emotional/Behavioral	Students should be able to possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for their actions.	• Exercise good judgment. • Adapt to rapidly to changing environments and/or stress. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach. • Control emotions for the benefit of others.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Drafting & Design

ACD/ADE/AGD TECHNICAL STANDARDS

All students in the Drafting and Design Technology program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem Solving Skills	Ability is sufficient for classroom and lab work.	• Apply mathematical and verbal/written/reading skills to interpret, propose solutions and communicate design intent. • Interpret and apply written standards and codes. • Analyze various options for completing a project to maximize efficiency. • Use a scientific calculator.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Able to work as part of a team, act professionally and treat others with respect while staying focused on one or more tasks.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Ask questions to quickly obtain information related to technical projects. • Receive and interpret information from instructors. • Communicate effectively with others in verbal and written forms.
Coping Skills	Abilities are sufficient to be productive in a classroom, lab or industry situation.	• Ability to stay calm and focused working on projects with hard deadlines. • Be able to work individually or in a group. • Must be able to adapt to different teaching modes, lab settings or classroom.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction.	• Move from workstation to workstation near other students, instructors and equipment. • Manipulate hand and digital drafting equipment.
Auditory Skills	Auditory abilities are sufficient to work effectively and safely.	• Receive and respond to instructors and others. • Place and receive telephone or video calls.
Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and other locations on the campus.	• Visually interpret information from drawings, diagrams and sketches both in printed and digital form.
Tactile Skills	Tactile skills adequate for work in a classroom or lab environment.	• Manipulate drafting instrumentation, tools and technology.
Environmental	Must be able to function safely under varying environmental factors.	• Navigate both indoor and outdoor environments, including construction sites, to compare classwork with building in progress.

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Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Demonstrate flexibility, honesty, empathy, patience, and cooperative behaviors. • Display high levels of personal responsibility, accountability and development. • Remain calm and focused in a high-stress, deadline-driven environment. • Adapt to changing environments and/or stress. • Work independently with minimal supervision. • Maintain a professional appearance and actions. • Exercise independent judgment to effectively solve problems and make decisions.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Education and Training

EDT TECHNICAL STANDARDS

Every student in the Education & Training program are expected to meet specific technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation or graduates' eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standard	Examples
Critical Thinking/Problem Solving Skills	Abilities are sufficient for the classroom, lab and work in industry situations that require the organization of time and materials, prioritization of tasks, multitasking, and adapting to changing situations.	• Synthesize students' observations with known child development and plan lessons accordingly. • Respond to student behaviors in a way that demonstrates knowledge of child development and developmentally appropriate practices. • Be able to demonstrate the ability to think logically about educational issues. • Demonstrate the ability to multi-task and adapt to and display flexibility in changing situations. • Perform the above skills independently.

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Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds from age groups.	• Work as a team in college classes for group work. • Work as a team in educational settings. • Maintain a cooperative spirit when working with classmates or professionals in education. • Demonstrate respect for those whose appearance, condition, beliefs, and values may conflict with your own. • Demonstrate sufficient emotional health to perform under stress, exercise good judgment and promptly complete all academic work and work-based learning responsibilities.
Communication Skills	Abilities are sufficient for verbal and non-verbal communication abilities with children, families or other educational environments.	• Have adequate verbal and written communication skills with other adults (colleagues, parents) and students of differing ages. • Understand and respond to oral communications and directions. • Take initiative in speaking with parents to make them and the student feel welcome. • Work with families and children as much as possible during arrival and departure to provide a smooth transition. • Be able to read, write, understand, and respond to written instructions, communications and materials.
Coping Skills	Abilities are sufficient for working under stress and maintaining composure.	• Solves personal and interpersonal problems. • Demonstrates ability to resolve conflicts and deal with upset clients (families). • Ability to remain cool, calm and collected when working with students' challenging behaviors.
Mobility/Motor Skills	Abilities are sufficient for motor ability (balance, coordination, speed, and agility) and strength to move independently throughout a classroom setting, to move equipment/students and to ensure safe and effective environments.	• Have the mobility, strength and dexterity to be able to lift a child weighing up to 50 pounds. • Ability to be at and interact at each student's level and retrieve who wander and/or run from the group. • Be able to sit down on the floor and get up again in a timely manner. • Be able to run and play with students' in all environments. • Be able to maneuver safely around active moving students in all environments.
Auditory Skills	Sufficient auditory ability to monitor and assess the needs of the students.	• Have adequate hearing in order to supervise students from across a 20 ft. room. • Demonstrate required sensory skills in order to observe both individuals and groups of students. Tasks include monitoring safety, interactions and meeting the needs of students.

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Visual Skills	Sufficient visual acuity/ability to monitor and assess the needs of students.	• Have an adequate vision in order to supervise students from across a 20 ft. room. • Demonstrate required sensory skills in order to observe an individual student as well as a group of students for monitoring safety, social interaction, non-verbal cues, or signs of physical abuse or neglect.
Tactile Skills	Sufficient tactile ability to monitor and assess the needs of students.	• Determining the temperature of formula on the inside of the wrist prior to feeding an infant (early childhood specific).
Environmental/Physical Strength and Stamina	Abilities are sufficient to work in an active environment and tolerate environmental stressors and function safely.	• Have the mobility, strength and dexterity to be able to move or direct a child's movement when necessary. • Have the ability to interact at each child's level and retrieve children who wander throughout the day. • Be able to sit down on the floor or ground and get up again quickly repeatedly. • Be able to change a diaper repeatedly (early childhood and/or special needs specific). • Ability to physically interact with students during play time.

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Emotional, Interpersonal & Behavioral	Sufficient behavior and social abilities to interact and work collaboratively with individuals, groups and families while maintaining composure in stressful situations, making sound decisions and assuming responsibility/accountability for actions.	• Be able to stand or sit in front of groups of students and present class materials. • Be able to interact with children and families through eye contact and verbal communication and do so according to general social norms; including being able to adjust interactions based on the child or family's cultural/social needs. • Be able to multi-task: stay in control and adequately supervise a group of students who are performing different activities. • Should have skills in order to meet the needs of small and/or large groups of students while also being aware of the other students in the room and helping those with special needs or problems at any given time. • Communicate with parents and students to help make them feel welcome. Interact with parents and students during arrival and departure to provide a smooth transition. • Be willing to receive direction, suggestions and feedback from co-workers, supervisors and families in a manner that is calm and professional. • Adapt to rapidly changing environments and/or stress. • Refrain from the use and abuse of any substance that would impair the ability to attend work consistently and work with students in a reliable manner. • Have the ability to attend work consistently and work with students in a reliable manner to ensure the safety of, observation of and assessment of all situations involving a student and a group of students and co-workers. • Adapt to changing duties and needs of the work environment, including retaining new information related to the program, the profession and the needs of each student. • Exercise independent judgment to effectively solve problems and make decisions.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Electrical Lineworker & Management Technology

ELW TECHNICAL STANDARDS

All students in the Electrical Lineworker and Management Technology program are expected to meet certain technical standards that are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the

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program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition	Examples of Necessary Activities
Critical Thinking/Problem Solving	Ability is sufficient to complete classroom and lab work with industrial equipment. Ability is sufficient to objectively analyze information, directions and instructions, make correct decisions, and draw reasonable conclusions that produce acceptable outcomes.	- Utilize engineering theory and practices to logically work through technical problems. - Utilize computers, with minimal assistance, to obtain technical information.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	- Be able to work effectively independently or in a group. - Stay focused on the current task. - Demonstrate time management skills. - Communicate information with accuracy and professionalism.
Communication Skills	Sufficient ability to interact effectively and professionally with others via the English language using non-verbal, verbal and written forms of communication. Follow instructions effectively when interacting with faculty, staff, and peers using written, verbal and digital means.	- Speak and write accurately, clearly and distinctly. - Communicate effectively with others in verbal and written forms. - Give and follow verbal directions or follow verbal directions from other members of the class or instructors. - Read and understand technical writing, policies and standard operating procedures.
Coping Skills	Abilities are sufficient to effectively manage stress produced by work, environmental and social situations and to react productively in a classroom or lab with industrial equipment.	- Solve personal and interpersonal problems. - Minimize stress and conflict. - Balance internal needs and external demands. - Recognize personal limitations and request assistance as appropriate.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction. Must possess the ability to lift, stand, stretch, and maneuver to any position as required by an industrial situation.	- Move safely near other students, instructors and equipment. - Lift items up to 100 lbs. individually or in coordination with others. - Frequently lift 50 lbs individually. - Properly wear appropriate personal protective equipment (ex. safety glasses, hearing protection, gloves, fall protection, face shield, etc.) without assistance. - Ability to climb. - Move freely and quickly around the vehicle bucket and line while manipulating equipment. - Work quickly and accurately. - Independently use body members for grip, speed and precision work. - Start, stop, control, and adjust the progress of machines, equipment and material within tight crowded places. - Position heavy items with assistance of lifting devices. - Ability to perform/type data entry via a control panel or keyboard.

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Auditory Skills	Sufficient auditory ability to quickly send and receive information and interpret verbal orders and instructions from other people in industrial environments safely and efficiently.	● Receive and respond to verbal commands in a noisy environment. ● Respond to alarms, bells and other safety alert systems. ● Respond to calls for help.
Visual Skills	Visual ability is sufficient for observation, assessment and safe performance in the classroom, lab and industrial environments.	● Recognize hazards, and interpret indicators and measurements from industrial equipment. ● Read safety labels and warnings such as specific Safety Data Sheets (SDS). ● Work with small electronic components used in labs. ● Inspect power lines, and tools.
Tactile Skills	Tactile skills adequate for work in a class, lab, or industrial environment.	● Operate equipment safely by turning on and off proper switches, buttons and/or valves. ● Utilize the internet to locate information and learning management systems.
Environmental	Must be able to function under varying environmental factors and detect and respond safely to changes in the current environment or the presence of a hazardous situation.	● Complete cleaning responsibilities requiring stooping or bending.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	● Receive and respond professionally to verbal and written communication. ● Adapt rapidly to changing environments and/or stress. ● Attentiveness to the task at hand in hazardous situations. ● Demonstrate honesty, integrity, respect, patience, and cooperative behaviors. ● Maintain personal hygiene to a satisfactory standard.
Weight Restriction	This program contains a weight restriction of 300 pounds.	The purpose of this restriction is to ensure all weight rated equipment is used in an appropriate and safe manner within maximum allowed weight loading to include worker and associated gear.

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Electrical Power & Controls

EPC TECHNICAL STANDARDS

All students in the Electrical Power and Controls program are expected to meet certain technical standards that are essential for the successful completion of all phases of the program and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

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Technical Standard	Definition of Standards	Examples
Critical Thinking/ Problem Solving Skills	Abilities sufficient to complete classroom and lab coursework that are reflective of real-world situations found in industry.	• Ability to apply logic and technical knowledge to current situations and problems. • Ability to determine appropriate tools and materials required to complete the task. • Ability to diagnose problems by using a Digital Multimeter (DMM) or tools designed for specific applications. • Ability to utilize theory and trade practices to maintain the functionality of the equipment.
Interpersonal Skills	Abilities sufficient to interact with individuals and groups from a variety of social, emotional, cultural and intellectual backgrounds.	• Ability to work independently or in a group setting while maintaining focus on the current task. • Demonstrate time management skills. • Communicate information with accuracy and respect.
Communication Skills	Abilities sufficient to effectively communicate with others, both verbally and in writing. Abilities sufficient for writing, reading and comprehending directions or instructions in the class or lab.	• Ability to read schematics, wiring diagrams, operator/service manual and comprehend the information. • Ability to complete course lab assignments and explain corrective actions in written and verbal formats. • Ability to comprehend/follow written and verbal instructions.
Coping Skills	Abilities sufficient to function in highly stressful and rapidly changing situations. Abilities are sufficient to be productive in a classroom or lab environment.	• Ability to meet deadlines. • Ability to deal with critiques/criticism. • Ability to maintain composure under stressful situations. • Ability to maintain professionalism at all times.
Mobility/Motor Skills	Must possess the ability to lift, stand, stretch, squat and crawl or contort to any position as required by the repair situation. All positions listed above will be encountered in the class, lab or a work-based learning setting on a consistent basis.	• Ability to lift a minimum of 50 pounds to chest level from the floor level. • Ability to work on stationary equipment that requires standing, reaching, bending and potentially prone positions for extended periods of time. • Ability to move about the work area in various outside working conditions. • Ability to work in confining or tight spaces. • Ability to operate hand and/or power tools continually or for extended periods of time.
Auditory Skills	Auditory abilities are sufficient to work safely in an industry environment, class or lab.	• Ability to respond to audible alarms, bells, buzzers, warning sirens and other safety alert systems. • Ability to detect unusual sounds being emitted from motors, transformers, drives and motor control systems. • Ability to hear verbal instructions, because line of sight is not always possible.

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Visual Skills	Visual skills adequate to safely work in a class or lab with industrial equipment.	• Ability to interpret information from diagrams, labs and test equipment. • Ability to see in low or poor lighting conditions. • Ability to perceive different depths and dimensions. • Ability to distinguish individual colors.
Tactile Skills	Tactile skills adequate for work in a class or lab with industrial equipment.	• Ability to operate equipment safely by turning on and off switches, pressing buttons. • Ability to determine hot or cold temperatures by the sense of touch.
Environmental Awareness	Abilities sufficient to maneuver safely in an industrial setting. Abilities sufficient to function safely under varying environmental factors.	• Ability to work in an environment containing hazards that may include exposure to live electrical components, sharp surfaces, pinch points, moving equipment, stored energy apparatus, trip hazards and uneven surfaces. • Ability to maintain focus and productivity in an environment containing hazards and distractions. • Ability to work inside and outside under variable temperature, humidity and weather conditions.
Emotional/Behavioral	Emotional stability sufficient to maintain composure and professionalism in stressful situations and assume responsibility/accountability for actions.	• Demonstrate flexibility to calmly change course while addressing a technical problem. • Demonstrate ability to follow the directions of an instructor, supervisor or lead technician. • Demonstrate professionalism, integrity and honesty. • Demonstrate ability to manage stress and other factors while troubleshooting technical problems both individually and as part of a group.

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Electromechanical Technology

ETT TECHNICAL STANDARDS

All students in the Electromechanical Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

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Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient to use basic computer and word processing skills. Demonstrate ability to remember, understand, apply, analyze and evaluate information.	• Be able create documents using Office Tools. • Access information using the internet and in Canvas. • Utilize and apply information gathered from printed and electronic resources. • Process information from multiple sources. • Collect, examine and interpret technical data. • Use logical approach to troubleshooting processes.
Interpersonal/Communication Skills	Ability to work and communicate with others whether face-to-face or through electronic means with professionalism and respect for persons from diverse social, emotional, cultural and intellectual backgrounds.	• Respond with constructive feedback to instructors and/or other students. • Function and contribute as part of a team. • Mediate different point of views to determine the best solution.
Mobility/Motor Skills	Safely perform physical activities in a classroom and laboratory setting.	• Move around and work in a classroom setting. • Perform physical activities including but not limited to maintenance, troubleshooting, repair and installation of equipment. • Capable of wearing the appropriate personal protective equipment (PPE) for the required task.
Physical Senses Skills	The ability to use auditory, visual, tactile and olfactory senses to successfully perform the tasks of a technical student.	• Distinguish and respond to sounds of equipment, instructor commands and communication from classmates. • Distinguish shapes, colors, safety symbols and instructions. • Read technical manuals. • Use depth perception and peripheral vision. • Utilize tools, meters and control equipment with appropriate manual dexterity. • Differentiate between the different odors from chemical, malfunctioning equipment and hazards.
Environmental	Possess the ability to tolerate environmental stressors.	• Tolerate variable indoor/outdoor temperatures. • Safely work with potentially hazardous materials. • Work in areas that are close, crowded and/or noisy. • Ability to walk and stand for extended periods of time.

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Emotional/Behavioral	Possess emotional stability sufficient to assume responsibility/accountability for actions and maintain composure in stressful situations.	• Maintain composure and integrity, while navigating changing environments, stressful engineering decisions, and professional disagreements. • Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

In the case of an otherwise qualified individual with a documented disability, appropriate and reasonable accommodations will be made unless doing so would fundamentally alter the essential training elements, cause undue hardship, or produce a direct threat to the safety of the patient or student.

Emergency Medical Services (EMS)

EMS TECHNICAL STANDARDS

Emergency Medical Services have established technical standards to ensure that students have the abilities required to function in the classroom, lab and clinical environment. These standards are essential for the successful completion of all phases of the program which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability to make fast and appropriate decisions in high stress situations. Ability to remain calm and intervene in various tense and stressful situations. Reasoning skills sufficient to perform deductive/inductive thinking for prehospital decisions.	• Assess scene safety and hazards that may occur. • Determine and prioritize the severity of an injury or illness. • Identify cause-effect relationships in clinical situations. • Transfer knowledge from one situation to another.
Interpersonal Skills	Abilities are sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural and intellectual backgrounds.	• Establish rapport with patients, instructors, staff, colleagues and groups. • Respect and care for patients whose appearance, condition, beliefs and values may conflict with your own. • Establish and maintain therapeutic boundaries. • Exhibit ethical behavior and exercise good judgment.

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Communication Skills	Abilities are sufficient for interaction with others in verbal and written form. Ability to communicate over a two-way radio. Ability to complete computer-based written patient care reports.	• Document and interpret actions and patient responses in a clear, professional and timely manner. • Ask questions to quickly obtain information related to the emergency. • Receive and interpret information from patients, other first responders and bystanders. • Complete a computer-based patient care report in a timely manner.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Adapt rapidly to changing environments and/or stress. • Recognize personal limitations.
Mobility/Motor Skills	Gross and fine motor abilities are sufficient to provide safe and effective emergency medical care in the clinical setting.	• Move around in work and treatment areas. • Administer cardiopulmonary resuscitation. • Stand and/or walk up to 12 hours per day with or without breaks. • Assist in lifting patients. • Pinch/pick or otherwise work with fingers. • Ability to enter and exit an ambulance without assistance.
Auditory Skills	Auditory abilities are sufficient to monitor and assess health needs. Ability to discern personal danger at emergency scenes. Ability to hear requests for additional aid. Ability to hear other people in a loud environment.	• Hear internal body sounds with the use of a stethoscope. • Hear various signals from medical equipment, such as alarms, dangers and warnings. • Hear and respond to instructors, preceptors and patients.
Visual Skills	Sufficient visual acuity, corrected or not, for safe performance in clinical and lab settings. Ability to visualize injuries and obvious life threats.	• Observe patients' responses, see a change in skin color or obvious bleeding. • See objects up to 20 feet away. • Read electronic medical records and/or associated paper medical records.
Tactile Skills	Tactile ability is sufficient for physical assessment.	• Perform functions of the physical assessment and/or those related to therapeutic intervention (e.g. palpation of pulse, detecting temperature changes, muscle tone and/or joint movement).
Olfactory Skills	Olfactory ability sufficient to detect significant environmental and patient odors.	• Detecting smells that could contribute to safety concerns for yourself and others, including but not limited to smoke, gasoline and burning material.

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Environmental	Possess the ability to tolerate environmental stressors.	● Practice standard precautions in the clinical setting. ● Work in areas that are close, crowded and/or noisy. ● Anticipate exposure to communicable diseases, body fluids and toxic substances.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	● Calmly receive feedback. ● Demonstrate honesty and integrity beyond reproach. ● Demonstrate empathy, patience and cooperative behaviors.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Additional Admission Requirements for all EMS programs:

- Valid Driver's License.
- Current Health Insurance.
- Current Program Required Vaccinations.
- AHA BLS Provider CPR Card.
- TB Test.
- Criminal Background Check.
- Physical Exam.
- Drug Screen.
- DSHS EMT Certificate (Paramedic programs only)

Engineering

EGR TECHNICAL STANDARDS

All students in the Associate in Engineering degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Description	Examples

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Critical Thinking/Problem Solving Skills	Ability is sufficient to use mathematical skills for solving problems in a variety of engineering contexts. Demonstrate ability to remember, understand, apply, analyze, and evaluate information.	• Apply general rules to specific problems to produce answers that make sense. • Formulate a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity). • Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events). • Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations). • Choose the right mathematical methods or formulas to solve a problem. • Remember information, such as words, numbers, pictures, and procedures. • Recognize when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem. • Imagine how something will look after it is moved around or when its parts are moved or rearranged.
Interpersonal Skills	Ability to interact with others, whether face-to-face or through electronic means, with professionalism and respect for persons from diverse social, emotional, cultural, and intellectual backgrounds.	• Respond to instructors and/or other students with respect for their viewpoints whether in a traditional, face-to-face classroom or online. • Function and contribute as part of a team. • Exhibit ethical behavior and exercise good judgment in keeping with Texas State Technical College's Code of Student Conduct as published in the Student Handbook. • Negotiate interpersonal conflict.
Communication Skills	Abilities sufficient for interaction with others in verbal, nonverbal and written form.	• Listen to and understand information and ideas presented through spoken words and sentences. • Communicate information and ideas verbally so others will understand. • Speak clearly so others can understand. • Read and understand information and ideas presented in writing. • Communicate information and ideas in writing so others will understand.
Auditory Skills	Auditory abilities are sufficient for classroom or online needs.	• Distinguish and respond to sounds at a close range including but not limited to an instructor, other students in a classroom and audio recordings. • Focus on a single source of sound in the presence of other distracting sounds. • Detect or tell the differences between sounds that vary in pitch and loudness.

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Visual Skills	Visual ability is sufficient for comprehending printed materials, images or videos projected on a screen.	• Tolerate working indoors in artificial light and the glare of a computer screen. • Read printed or electronic documents. • Use depth perception and peripheral vision. • Match or detect differences between colors, including shades of color and brightness.
Tactile Skills	Tactile ability is sufficient for written communication and handling of equipment.	• Utilize instrumentation tools, technology and scientific equipment.
Mobility/Motor Skills	Physical abilities sufficient to function in a classroom or online setting while following the College's Code of Student Conduct so that the learning environment is not compromised.	• Quickly respond (with the hand, finger or foot) to a signal (sound, light, picture) when it appears. • Choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot or other body part.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Concentrate on a task over a period of time without being distracted. • Shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources). • Seek support and/or follow reporting procedures as needed for injuries, illness, Title IX concerns, etc. as outlined in the Student Handbook. • Solve personal and interpersonal problems. • Cope with your own emotions. • Cope with strong emotions in others.
Environmental Skills	Possess the ability to tolerate environmental stressors.	• Know your location in relation to the environment or to know where other objects are in relation to you.
Behavioral Skills	Possess sufficient emotional stability and self-regulation skills to assume personal responsibility and accountability for following the Code of Student Conduct and Code of Classroom Conduct as outlined in the Student Handbook .	• Maintain composure and integrity, while navigating changing environments, stressful classroom situations and professional disagreements. • Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Health Information Technology

HIT TECHNICAL STANDARDS

The Health Information Technology program has established technical standards to ensure that students have the abilities required to function in the classroom, lab and practicum environment. These standards are essential for the successful

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completion of all phases of the program which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Utilize critical thinking skills to assemble, analyze, process, and communicate essential health information	• Complete assignments on time, adhere to deadlines, and analyze information to come up with possible solutions. • Troubleshoot software application issues. • Demonstrate the ability to multi-task and adapt to and display flexibility in changing situations. • Perform the above skills independently.
Interpersonal Skills	Work collaboratively and effectively with a diverse population in a variety of settings and situations.	• Work cooperatively with partners and individuals. • Work diligently and devote the necessary time to complete tasks. • Exhibit behavioral and ethical skills appropriate to professional interactions. • Exercise good judgment. • Respect and care for others whose appearance, condition, beliefs, and values may conflict with your own. • Demonstrate sufficient emotional health to perform under stress, exercise good judgment, and promptly complete all academic work and work-based learning responsibilities.
Communication Skills	Effectively communicate (verbal and non-verbal) in the classroom and in a simulated office environment.	• Provide and follow directions from other members of the class or instructors. • Present ideas and create presentations to convey those ideas. • Demonstrate active listening skills. • Receive, organize, prioritize, and transmit information. • Document problems and procedures (verbally, written and electronically). • Adapt communication to individuals' abilities to understand.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Solve personal and interpersonal problems. • Demonstrate ability to resolve conflicts in the college and workplace environment. • Ability to multitask in a stressful environment and meet deadlines.

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Mobility/Motor Skills	Possess good dexterity (eye and hand coordination). Sufficient gross and fine motor skills to manipulate equipment. Use of computer keyboard and repetitive keying functions. Ability to perform office functions, such as sitting, standing and working in small spaces for long periods of time.	• Have mobility, strength and dexterity to be able to lift at least 10 pounds. • Perform duties on a computer as related to records management and data entry with accuracy. • Use office equipment effectively.
Auditory Skills	Comprehension and understanding of spoken language.	• Discern directions in online environments. • Review videos in the online environment. • Place and receive telephone or video calls for conducting business. • Respond to instructions. • Respond to emergency alert systems.
Visual Skills	Ability to tolerate viewing a computer screen for extended lengths of time.	• Use computers to conduct business. • Observe computer issues and possible problems. • Read electronic medical records and/or associated paper medical records.
Tactile Skills	Use a computer keyboard, number keypad and mouse repetitively. Operate and utilize office materials and office equipment/software daily.	• Perform duties on a computer as related to records management and data entry with accuracy. • Pick up reams of paper to load into a copier or other equipment.
Environmental	Ability to tolerate reasonable levels of light, sound and temperature.	• Ability to prioritize requests and meet deadlines. • Ability to multitask using different operating systems.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Exercise independent judgment to effectively solve problems and make decisions. • Adapt to changing environments and/or stress. • Demonstrate honesty and integrity beyond reproach. • Work independently with minimal supervision. • Represent the company with customers and must maintain professionalism in both appearance and action.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential

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requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

HVAC Technology

HVA TECHNICAL STANDARDS

All students in the Heating, Ventilation and Cooling (HVAC) program are expected to meet certain technical standards that are essential for the successful completion of all phases of the program and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem - Solving Skills	Show the ability to complete classroom and lab coursework that simulates real-world problems.	• Show the ability to diagnose problems by using a meter or tools for specific applications. • Utilize theory and trade practices to maintain the functionality of the equipment. • Apply technical knowledge of the problem to the current situation or problem.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Be able to work alone or in a group and stay focused on the current task. • Demonstrate time management skills. • Communicate information with accuracy and respect.
Communication Skills	Abilities sufficient for writing, reading and comprehending directions or instructions in the class or lab.	• Read a service manual and comprehend the information. • Complete course lab assignments and explain corrective actions in written and verbal formats. • Comprehend/follow written and verbal instructions.
Coping Skills	Abilities are sufficient to be productive in a classroom or lab environment.	• Be able to meet deadlines. • Be able to deal with critiques/criticism. • Maintain composure under stressful situations. • Maintain professionalism at all times.

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Mobility/Motor Skills	Must possess the ability to lift, stand, stretch, squat, and crawl or contort to any position as required by the repair situation. All positions listed above will be encountered in the class, lab or a work-based learning setting on a consistent basis.	• Navigate around objects or obstacles on the floor or overhead. • Lift a minimum of 50 pounds to chest level from the floor level. • Be able to work on stationary equipment that requires reaching, bending and potentially prone positions for up to 60 minutes. • Be able to move about the work area in various outside working conditions. • Be able to work in confining or tight spaces. • Operate hand and/or power tools continually. • Be able to complete physical course lab assignments for up to 90 minutes without sitting.
Auditory Skills	Auditory abilities are sufficient to work safely in an industry environment, class or lab.	• Detect sounds such as unusual noises in outdoor and indoor HVAC equipment. • Detect sounds being emitted from the motors, compressors and control systems. • Be able to hear verbal instructions, because the line of sight is not always possible.
Visual Skills	Visual skills adequate to safely work in a class or lab with industrial equipment.	• Interpret information from diagrams, labs and test equipment. • Able to see in low or poor lighting conditions, such as crawl spaces and attics. • Perceive different depths and dimensions.
Tactile Skills	Tactile skills adequate for work in a class or lab with industrial equipment.	• Be able to determine hot or cold temperatures by the sense of touch.
Environmental	Must be able to function safely under varying environmental factors.	• Maintain focus and productivity in a noisy environment. • Work inside and outside under variable temperature, humidity and weather conditions.

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Emotional/Behavioral	Emotional/behavioral skills are adequate to maintain composure in a stressful environment.	• Demonstrate flexibility to calmly change course while addressing a technical problem. • Follow the directions of an instructor, supervisor or lead technician. • Demonstrate professionalism, integrity and honesty. • Cope with stress and other factors while troubleshooting technical problems both individually and as part of a group.

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Industrial Maintenance

IST TECHNICAL STANDARDS

All students in the Industrial Maintenance degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards.

To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below. Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem Solving Skills	Ability to apply industrial systems theory and practices to address technical problems and challenges in class and labs with industrial equipment. Understand schematics and other technical documents to properly interpret the data to solve problems.	• The ability to use critical thinking techniques to perform a Root Cause Analysis to form a plan for repairing equipment failures. • The ability to add, subtract, multiply, or divide quickly and correctly for use with safety and installation requirements for equipment. • The ability to remember information, such as words, numbers, pictures, and procedures. • The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations). • The ability to combine or separate information (fluid power, electrical and mechanical systems) for installing and troubleshooting industrial equipment. • The ability to examine data and find patterns of equipment failure. • The ability to recognize changes in production patterns and determine the cause of those changes. • The ability to apply general rules to specific problems to produce answers that make sense. • The ability to combine pieces of information to form general rules or conclusions. • The ability to imagine how a component will look from a three-dimensional drawing or image.

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Interpersonal/Communication Skills	Abilities to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds. Must be able to effectively work in teams or groups. Abilities for interaction with others in verbal and written form. Effectively communicate using oral and written technical documents. Must be able to read equipment instructions and machine controls.	• The ability to work in a self-sufficient and self-directed manner. • The ability to work in a team or group setting with students of different backgrounds, ethnicity or gender. • The ability to work in a diverse team or group of co-workers. • The ability to read technical specifications. • The ability to read and understand machine labels, controls and instruction material. • The ability to listen to and understand information and ideas presented through spoken words and sentences. • The ability to communicate information and ideas in speaking so others will understand. • The ability to speak clearly so others can understand. • The ability to read and understand information and ideas presented in writing. • The ability to research and find alternatives to understanding technical documents written in other languages. • The ability to communicate clearly with associates to convey work instructions, unsafe conditions, equipment failures, and the ability to understand the communication from other associates. • The ability to communicate information and ideas in writing so others will understand.
Mobility/Motor Skills	Physical abilities to move in one's environment with ease and without restriction.	• The ability to complete laboratory assignments. • The ability to move and work safely in a lab/classroom environment. • The ability to coordinate the movement of arms, legs and torso together when the whole body is in motion. • The ability to keep or regain body balance or stay upright when in an unstable position.
Physical Senses Skills	The ability to use auditory, visual, tactile, and olfactory senses to successfully perform the tasks of a technical student.	• Distinguish and respond to sounds of equipment, instructor commands and communication from classmates. • Distinguish shapes, colors, safety symbols, and instructions. • The ability to read and understand machine labels, controls and instruction material. • The ability to lift 25lbs or more. • Use hand tools needed to complete labs or projects.

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Environmental	Possess the ability to tolerate environmental stressors and apply appropriate PPE as required.	• Tolerate variable indoor/outdoor temperatures. • Safely work with potentially hazardous materials. • Tolerate course activities in an industrial lab with equipment noise and operating equipment. • Appropriately wear safety PPE such as, but not limited to: safety glasses, face shields, gloves, fire resistant clothing, welding hood, and hearing protection as required in certain lab/classroom situations.
Emotional/ Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions. Abilities to be productive in a classroom, lab or industrial atmosphere.	• Must be alert and attentive during class and laboratory activities. • The ability to complete a task over a given period of time. • The ability to handle stressful troubleshooting scenarios. • The ability to give and accept constructive criticism. • Must be able to adapt to different teaching modalities, lab settings or classroom environments. • The ability to work individually or in a group.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Instrumentation Technology

INT TECHNICAL STANDARDS

All students in the Instrumentation Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program and which reflect industry requirements and standards.

To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below. Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability to objectively analyze information and draw a rational conclusion.	• Be able to use and understand simple computer operations and programs. • Access information using the internet and other electronic devices.

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Interpersonal/Communication Skills	Ability to work and communicate with others whether face-to-face or through electronic means.	• Be able to have conversations with one or more people through face-to-face contact or digital means.
Mobility/Motor Skills	Safely perform physical activities in a classroom and laboratory setting.	• Move around and work in a classroom setting. • Capable of wearing the appropriate personal protective equipment (PPE) for the required task.
Physical Senses Skills	The ability to use auditory, visual and tactile senses. The ability to lift 25 lbs. or more.	• Distinguish and respond to sounds of equipment, instructor commands and communication from classmates. • Distinguish shapes, colors and safety symbols. • Read technical manuals. • Gauge relative distance and peripheral vision.
Environmental	Possess the ability to tolerate environmental factors.	• Tolerate variable indoor/outdoor temperatures. • Safely work with potentially hazardous areas • Work in areas that are close, crowded and/or noisy.
Emotional/Behavioral	Possess emotional stability to maintain composure in stressful situations.	• Maintain composure and integrity, while navigating changing environments, stressful decisions and professional disagreements. • Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

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MTH TECHNICAL STANDARDS

All students in the Associate of Science in Mathematics degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. In mathematics programs, specific skill standards have been set to ensure that students possess the requisite abilities for success in academic coursework, practical mathematical applications, and effective problem-solving situations. These standards are integral to progressing through all phases of the program and are aligned with industry expectations and benchmarks. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Description	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient for solving problems in various contexts.	• Generate or use different sets of rules for combining or grouping things in different ways. • Identify or detect a known pattern (a figure, object, word or sound) that is hidden in other distracting material. • Come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity). • Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events). • Choose the right mathematical methods or formulas to solve a problem. • Remember information such as words, numbers, pictures and procedures. • Add, subtract, multiply or divide quickly and correctly. • Come up with unusual or clever ideas about a given topic or situation, or develop creative ways to solve a problem. • Tell when something is wrong, or is likely to go wrong. It does not involve solving the problem, only recognizing that there is a problem. • Quickly make sense of, combine and organize information into meaningful patterns.
Interpersonal Skills	Ability is sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural and intellectual backgrounds.	• Exhibit ethical behavior and exercise good judgment in keeping with Texas State Technical College's Code of Student Conduct as published in the Student Handbook. • Be fully present in conversation. • Establish rapport with instructors, staff and other students individually and in groups.

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Communication Skills	Ability is sufficient for interaction with others in verbal and written form.	• Read and understand information and ideas presented in writing. • Communicate information and ideas in writing so others will understand. • Explain how mathematical formulas/symbols apply to real life situations. • Listen to, and understand, information and ideas presented through spoken words and sentences. • Communicate information and ideas in speaking so others will understand.
Auditory Skills	Ability is sufficient for classroom or online needs.	• Focus on a single source of sound in the presence of other distracting sounds.
Visual Skills	Ability is sufficient to arrange and comprehend observed information, attributing significance to it.	• Interpreting and understanding visual information in terms of spatial relationships.
Tactile Skills	Ability is sufficient to work properly with manipulatives and apply the correct procedures.	• Understand profound mathematical concepts by interacting with tangible objects.
Mobility/Motor Skills	Physical abilities sufficient to function in a classroom or online setting while following the College's Code of Student Conduct so that the learning environment is not compromised. Ability is sufficient for working with manipulatives.	• Dive into the investigation of spatial areas, patterns and shapes.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Seek support and/or follow reporting procedures as needed for injuries, illness, Title IX concerns, etc. as outlined in the Student Handbook. • Concentrate on a task over a period of time without being distracted. • Engage in a behavioral plan to solve a problem. • View the positive or meaningful aspects of the situation.
Environmental Skills	Possess the ability to maintain composure in stressful situations	• Keep spaces organized and maintain a structured environment fostering a feeling of control.
Behavioral Skills	Possess sufficient emotional stability and self-regulation skills to assume personal responsibility and accountability for following the Code of Student Conduct and Code of Classroom Conduct as outlined in the Student Handbook .	• Adapt rapidly and be flexible to changing environments and/or stress. • Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach. • Exercise safe and sound judgment.

Technical standards as stated here reflect performance abilities that are necessary for a student to successfully complete the requirements of the specified program. Students should verify their ability to perform these technical standards with or without accommodations. In the case of an otherwise qualified individual with a documented disability, appropriate and reasonable accommodations will be made unless doing so would fundamentally alter the essential training elements,

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cause undue hardship, or produce a direct threat to the safety of the student.

Texas State Technical College is invested in full compliance with the Americans with Disabilities Act (ADA). Any student who believes they may not be able to perform the functions listed may contact the [Access and Learning Accommodations \(adarequest@tstc.edu\)](mailto:adarequest@tstc.edu) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

Mechatronics Technology

MEC TECHNICAL STANDARDS

All students in the Mechatronics Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient to use basic computer and word processing skills. Demonstrate ability to remember, understand, apply, analyze and evaluate information.	• Be able create documents using Office Tools. • Access information using the internet and in Canvas. • Utilize and apply information gathered from printed and electronic resources. • Process information from multiple sources. • Collect, examine and interpret technical data. • Logical approach to troubleshooting processes.
Interpersonal/Communication Skills	Ability to work and communicate with others whether face-to-face or through electronic means with professionalism and respect for persons from diverse social, emotional, cultural and intellectual backgrounds.	• Respond with constructive feedback to instructors and/or other students. • Function and contribute as part of a team. • Mediate different point of views to determine the best solution.
Mobility/Motor Skills	Safely perform physical activities in a classroom and laboratory setting.	• Move around and work in a classroom setting. • Perform physical activities including but not limited to maintenance, troubleshooting, repair and installation of equipment. • Capable of wearing the appropriate personal protective equipment (PPE) for the required task.

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Physical Senses Skills	The ability to use auditory, visual, tactile and olfactory senses to successfully perform the tasks of a technical student.	• Distinguish and respond to sounds of equipment, instructor commands and communication from classmates. • Distinguish shapes, colors, safety symbols and instructions. • Read technical manuals. • The ability to determine relative distances using depth perception and sense objects in peripheral vision. • Utilize tools, meters and control equipment with manual dexterity. • Differentiate between the different odors from chemical, malfunctioning equipment and hazards.
Environmental	Possess the ability to tolerate environmental stressors.	• Tolerate variable indoor/outdoor temperatures. • Safely work with potentially hazardous materials. • Work in areas that are close, crowded and/or noisy. • Ability to walk and stand for extended periods of time.
Emotional/Behavioral	Possess emotional stability sufficient to assume responsibility/accountability for actions and maintain composure in stressful situations.	• Maintain composure and integrity, while navigating changing environments, stressful engineering decisions, and professional disagreements. • Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

In the case of an otherwise qualified individual with a documented disability, appropriate and reasonable accommodations will be made unless doing so would fundamentally alter the essential training elements, cause undue hardship, or produce a direct threat to the safety of the patient or student.

Nursing — ADN Transition Program

ADN TECHNICAL STANDARDS

Nursing programs have established technical standards to ensure that students have the abilities required to function in the classroom, lab, and clinical environment. These standards are essential for the successful completion of all phases of the program, which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples

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Critical Thinking/Problem-Solving Skills	• Ability is sufficient for sound nursing judgment. • Reasoning skills sufficient to perform deductive/inductive thinking for nursing decisions.	• Evaluate client or instrument responses, synthesize data and draw sound conclusions • Collect data, prioritize needs and anticipate reactions. • Identify cause-effect relationships in clinical situations. • Transfer knowledge from one situation to another.
Interpersonal Skills	• Abilities are sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Establish rapport with clients, instructors, staff, colleagues, and groups. • Respect and care for clients whose appearance, condition, beliefs, and values may conflict with your own. • Deliver nursing care regardless of the client's race, ethnicity, age, gender, religion, sexual orientation, or diagnosis. • Establish and maintain therapeutic boundaries. • Exhibit ethical behavior and exercise good judgment.
Communication Skills	• Abilities are sufficient for interaction with others in verbal and written form.	• Document and interpret actions and client responses in a clear, professional and timely manner. • Convey information to clients and others as necessary to teach and direct in an accurate, effective and timely manner. • Recognize and report critical client information to multidisciplinary team members. • Read, write, comprehend, and speak the English language to facilitate communication with instructors, clients and their family members, and other health care professionals.
Coping Skills	• Possess coping skills sufficient to maintain composure in stressful situations.	• Adapt rapidly to changing environments and/or stress.
Mobility/Motor Skills	• Gross and fine motor abilities are sufficient to provide safe and effective nursing care and emergency treatment.	• Move around in work and treatment areas. • Administer cardiopulmonary resuscitation. • Stand and/or walk up to 12 hours per day with or without breaks. • Calibrate and use the equipment. • Reposition immobile clients. • Push/pull 100 pounds or greater. • Lift/move heavy objects up to 50 pounds. • Pinch/pick or otherwise work with fingers

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Auditory Skills	• Auditory abilities are sufficient to monitor and assess health needs.	• Hear internal body sounds with the use of a stethoscope. • Hear auditory alarms (monitors, fire alarms, call bells). • Hear cries for help.
Visual Skills	• Visual ability sufficient for observation and assessment necessary in nursing.	• Observe client responses, see a change in skin color, and read calibrations on a syringe. • See objects up to 20 feet away. • Read electronic medical records and/or associated paper medical records.
Tactile Skills	• Tactile ability is sufficient for physical assessment.	• Perform functions of the physical assessment and/or those related to therapeutic intervention (e.g. insertion of a catheter, palpation of pulse, detecting temperature changes).
Olfactory Skills	• Olfactory ability sufficient to detect significant environmental and client odors.	• Detect odors from clients.
Environmental	• Possess the ability to tolerate environmental stressors.	• Safely work with potentially harmful chemicals used in health care settings. • Practice Standard Precautions in the clinical setting. • Work in areas that are close, crowded, and/or noisy. • Anticipate exposure to communicable diseases, body fluids, and toxic substances.
Emotional/Behavioral	• Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Additional Admission Requirements for LVN to ADN Transition Program:

- Driver's License
- Social Security Card
- Current American Heart Association BLS Healthcare Provider Card
- Valid, Unencumbered LVN License
- Current Program Required Vaccinations
- Clearance from Texas Board of Nursing (background check and/or fingerprinting as indicated by the Board of Nursing)

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OSE TECHNICAL STANDARDS

All students in the Occupational Safety and Environmental Compliance program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Abilities are sufficient for the classroom, lab and work in industry situations.	• Receive, interpret and correctly complete assignments (e.g., reading, research, writing and presentations). • Assess case studies and identify an appropriate plan for problem resolution. • Synthesize facts and information gathered to deduce the cause of the incident.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural and intellectual backgrounds.	• Establish rapport with teammates and others participating in projects. • Respect and care for teammates, victims and citizens whose appearance, condition, beliefs and values may conflict with your own. • Demonstrate sufficient emotional health to perform under stress, exercise good judgment, and promptly complete all academic and work-based learning responsibilities.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Speak and write clearly and distinctly in preparing documents, creating reports and testifying in simulated court proceedings. • Provide and follow directions from other members of the class or instructors. • Demonstrate active listening skills.
Coping Skills	Ability to maintain a state of harmony.	• Solves personal and interpersonal problems. • Minimizes stress and conflict. • Balances internal needs and external demands.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction.	• Some courses may require motor skills to participate in demonstrations or observe activities.
Auditory Skills	Auditory abilities are sufficient to work effectively and safely.	• Discern the instructor's direction in a classroom, online and in the lab environment. • Review videos in the classroom, online and in the lab environment.

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Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and other locations on the campus.	● Review course text, case files, notes, agency reports, budget documents and presentations. ● Ability to observe deficiencies and/or compliance concerns during inspection labs.
Tactile Skills	(Minimal) Tactile ability is sufficient to identify differences in textures and weight.	● Identify burns, degradation or damage to personal protective equipment (PPE) or sampling equipment during lab activities.
Environmental	Ability to tolerate environmental stressors.	● Practice standard safety precautions in the field.
Emotional/Behavioral	Emotional stability is sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	● Adapt rapidly to changing environments and/or stress. ● Calmly receive feedback. ● Demonstrate honesty and integrity beyond reproach.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Physics

PHY TECHNICAL STANDARDS

All students in the Associate in Physics degree program are expected to meet certain technical standards, which are essential for the successful completion of all phases of the program and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Description	Examples

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Critical Thinking/Problem-Solving Skills	Ability is sufficient to use mathematical skills for solving problems in a variety of physics contexts. Demonstrate ability to remember, understand, apply, analyze, and evaluate information.	• Generate or use different sets of rules for combining or grouping things in different ways. • Apply general rules to specific problems to produce answers that make sense. • Identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material. • Formulate a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity). • Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events). • Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations). • Choose the right mathematical methods or formulas to solve a problem. • Remember information, such as words, numbers, pictures, and procedures. • Add, subtract, multiply, or divide quickly and correctly. • Devise unusual or clever ideas about a given topic or situation or to develop creative ways to solve a problem. • Quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object. • Recognize when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem. • Quickly make sense of, combine, and organize information into meaningful patterns. • Imagine how something will look after it is moved around or when its parts are moved or rearranged.
Interpersonal Skills	Ability to interact with others whether face-to-face or through electronic means with professionalism and respect for persons from diverse social, emotional, cultural, and intellectual backgrounds.	• Respond to instructors and/or other students with respect for their viewpoints whether in a traditional, face-to-face classroom or online. • Function and contribute as part of a team. • Exhibit ethical behavior and exercise good judgment in keeping with Texas State Technical College's Code of Student Conduct as published in the Student Handbook. • Negotiate interpersonal conflict.
Communication Skills	Abilities sufficient for interaction with others in verbal, nonverbal and written form.	• Listen to and understand information and ideas presented through spoken words and sentences. • Communicate information and ideas verbally so others will understand. • Read and understand information and ideas presented in writing. • Communicate information and ideas in writing so others will understand.

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Auditory Skills	Auditory abilities are sufficient for classroom or online needs.	• Distinguish and respond to sounds at a close range including but not limited to an instructor, other students in a classroom, and audio recordings.
Visual Skills	Visual ability is sufficient for comprehending printed materials, images or videos projected on a screen.	• Tolerate working indoors in artificial light and the glare of a computer screen. • See objects up to 20 feet away. • Read printed or electronic documents. • Use depth perception and peripheral vision.
Tactile Skills	Tactile ability is sufficient for written communication and handling of equipment.	• Utilize instrumentation tools, technology and scientific equipment. • Assess, examine and interpret findings through touch.
Mobility/Motor Skills	Physical abilities sufficient to function in a classroom or online setting while following the College's Code of Student Conduct so that the learning environment is not compromised.	• Move around and work in a classroom setting. Classes may be up to 180 minutes in duration and may require presentations and moving within the classroom for group work. • Perform physical activities including, but not limited to, the manual dexterity sufficient to operate a computer, keyboard or other lab equipment. • Tolerate wearing personal protective equipment including, but not limited to, masks, safety goggles, aprons, and gloves.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Concentrate on a task over a period of time without being distracted. • Shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources). • Seek support and/or follow reporting procedures as needed for injuries, illness, Title IX concerns, etc. as outlined in the Student Handbook. • Solve personal and interpersonal problems. • Cope with own emotions. • Cope with strong emotions in others.
Environmental Skills	Possess the ability to tolerate environmental stressors.	• Know location in relation to the environment or to know where other objects are in relation to self.
Behavioral Skills	Possess sufficient emotional stability and self-regulation skills to assume personal responsibility and accountability for following the Code of Student Conduct and Code of Classroom Conduct as outlined in the Student Handbook .	• Maintain composure and integrity, while navigating changing environments, stressful classroom situations, and professional disagreements. • Maintain focus on attention to detail while balancing multiple responsibilities such as safety and quality.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Plumbing & Pipefitting Technology

PLB TECHNICAL STANDARDS

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Plumbing programs have established technical standards to ensure that students have the abilities required to function in the classroom, lab and outdoor environment. These standards are essential for the successful completion of all phases of the program which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Show the ability to complete classroom and lab coursework that simulates real-world problems. The ability to generate or use different sets of rules for combining or grouping things in different ways.	• Show the ability to diagnose problems by using a meter or tools for specific applications. • Utilize theory and trade practices to maintain the functionality of the equipment. • Apply technical knowledge of the problem to the current situation or problem. • Deductive Reasoning: The ability to apply general rules to specific problems to produce answers that make sense.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural and intellectual backgrounds.	• Be able to work alone or in a group and stay focused on the current task. • Demonstrate time management skills. • Communicate information with accuracy and respect.
Communication Skills	Abilities sufficient for writing, reading and comprehending directions or instructions in the class or lab.	• Read a service manual and comprehend the information. • Complete course lab assignments and explain corrective actions in written and verbal formats. • Comprehend/follow written and verbal instructions.
Coping Skills	Abilities are sufficient to be productive in a classroom or lab environment.	• Be able to meet deadlines. • Be able to deal with critiques/criticism. • Maintain composure under stressful situations. • Maintain professionalism at all times.

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Mobility/Motor Skills	Must possess the ability to lift, stand, stretch, squat and crawl or contort to any position as required by the repair situation. All positions listed above will be encountered in the class, lab, or a work-based learning setting on a consistent basis.	• Navigate around objects or obstacles on the floor or overhead. • Lift a minimum of 50 pounds to chest level from the floor level. • Be able to work on stationary equipment that requires reaching, bending and potentially prone positions for up to 60 minutes. • Be able to move about the work area in various outside working conditions. • Be able to work in confining or tight spaces. • Operate hand and/or power tools continually. • Be able to complete physical course lab assignments for up to 90 minutes without sitting.
Auditory Skills	Auditory abilities are sufficient to work safely in an industry environment, class or lab.	• Detect sounds such as unusual noises in outdoor and indoor plumbing equipment. • Detect sounds being emitted from the motors, lifts and heavy equipment. • Be able to hear verbal instructions, because the line of sight is not always possible.
Visual Skills	Visual skills adequate to safely work in a class or lab with industrial equipment.	• Interpret information from diagrams, labs and test equipment. • Able to see in low or poor lighting conditions such as crawl spaces and attics. • Perceive different depths and dimensions.
Tactile Skills	Tactile skills adequate for work in a class or lab with industrial equipment.	• Be able to determine hot or cold temperatures by the sense of touch.
Emotional/Behavioral	Emotional/Behavior skills are adequate to maintain composure in a stressful environment.	• Demonstrate flexibility to calmly change course while addressing a technical problem. • Follow the directions of an instructor, supervisor or lead technician. • Demonstrate professionalism, integrity and honesty. • Cope with stress and other factors while troubleshooting technical problems, both individually and as part of a group.

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that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Additional Admission / Licenses Requirements for Texas State Board of Plumbing Examiners:

- Driver's License
- Clearance from Texas State Board of Plumbing Examiners (background check and/or fingerprinting as indicated by the Board of Plumbing)

Precision Machining Technology

PMT TECHNICAL STANDARDS

All students in the Precision Machining Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem Solving Skills	The ability to apply theory and practices to address technical problems and challenges in class and labs.	The ability to use critical thinking techniques to troubleshoot problems and to form a plan for solving those problems. The ability to examine data and find patterns of equipment and production processes. The ability to recognize changes in production patterns and determine the cause of those changes.
Interpersonal Skills	The ability to interact with diverse individuals and groups in a friendly and professional way.	The ability to work in a self-sufficient and self-directed manner. The ability to work in a team or group setting with students of different backgrounds, ethnicity or gender. The ability to work in a diverse team or group of co-workers.
Communication Skills	The ability to effectively communicate through both verbal and written means.	The ability to read and understand information and ideas presented in writing. The ability to listen to and understand information and ideas presented through spoken words and sentences. The ability to clearly communicate information and ideas in speaking so others will understand. The ability to communicate information and ideas in writing so others will understand.

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Coping Skills	The ability to adapt and be productive in a dynamic environment.	Must be able to adapt to different teaching modalities, lab settings or classroom environments. The ability to handle stressful troubleshooting scenarios. The ability to work individually or in a group. The ability to know your location in relation to the environment or to know where other objects are in relation to you. The ability to work safely in an adverse environment such as extreme hot and cold environments.
Mobility/Motor Skills	The ability to move within the classroom or lab to perform basic physical tasks. Must be able to lift up to 50 pounds.	Participate in laboratory assignments. The ability to bend, stretch, twist or reach with your body, arms and/or legs. The ability to coordinate the movement of your arms, legs and torso together when the whole body is in motion. The ability to keep or regain your body balance or stay upright when in an unstable position. The ability to exert muscle force to lift, push, pull or carry objects.
Auditory Skills	The ability to recognize and interpret auditory signals or sounds.	Must be able to discern audible equipment alarms and tones. The ability to detect or tell the differences between sounds that may signify a equipment failure or an unsafe condition. The ability to tell the direction from which a sound originated. The ability to focus on a single source of sound in the presence of other distracting sounds. Must be able to hear instructions in an industrial environment. The ability to identify and understand the speech of another person.

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Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and other locations on the campus. Reading prints, schematics, charts and spreadsheets (written or on a computer monitor). Must be able to respond to visual displays on industrial equipment.	See and respond to warning light(s) of different colors. Read information on a computer monitor, TV or other screen devices (ex. touchscreen or teach pendant). The ability to determine relative distances using depth perception. The ability to recognize defects and/or minor damage in equipment and/or industrial systems. The ability to match or detect differences between colors, including shades of color and brightness.
Tactile Skills	The ability to physically manipulate common devices, tools or equipment.	Use hand tools needed to complete labs or projects. The ability to quickly and repeatedly adjust the controls of a machine to exact positions. The ability to make precisely coordinated movements to manipulate or assemble very small objects. The ability to coordinate two or more limbs while sitting, standing or lying down (like installing a device while laying on the floor). The ability to coordinate and time movements to match other moving objects, like grasping a moving part. The ability to quickly respond (with motions) to a signal (sound, light, picture) when it appears. The ability to make fast, simple, repeated movements of the fingers, hands and wrists.
Environmental	Must be able to function safely under varying environmental conditions. Must be able to wear lab-specific personal protective equipment (PPE).	Appropriately wear safety PPE such as, but not limited to: safety glasses, face shields, gloves, fire resistant clothing, protective footwear and hearing protection. Tolerate course activities in an industrial lab with equipment noise and operating equipment. The ability to safely adapt to extreme temperature ranges. The ability to safely manage operations at various heights.

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Emotional/ Behavioral	The ability to maintain composure in a stressful situation, and to maintain accountability for ones own actions.	Must be alert and attentive during class and laboratory activities. Must be able to work on multiple projects while adhering to deadlines. The ability to work within a team environment. The ability to concentrate on a task over a period of time without being distracted. The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch or other sources. The ability to give and accept constructive criticism. The ability to demonstrate punctuality.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Process Operations

PRO TECHNICAL STANDARDS

All students in the Process Operations Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem Solving Skills	Ability to learn and operate digital devices such as PC's and electronic calculators. Ability to understand, apply, analyze, and evaluate information.	• Be able to learn & understand simple computer operations and programs. • Access information using the internet and other electronic devices. • Utilize and information gathered from printed and electronic resources.

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Interpersonal/Communication Skills	Ability to work and communicate with others whether face-to-face or through electronic means.	• Be able to have conversations with one or more people though face-to-face contact or digital means.
Mobility/Motor Skills	Safely perform physical activities in a classroom and laboratory setting.	• Move around and work in a classroom setting. • Capable of wearing the appropriate personal protective equipment (PPE) for the required task.
Physical Senses Skills	The ability to use auditory, visual, tactile, and olfactory senses to successfully perform the tasks of a technical student. The ability to lift 25lbs or more.	• Distinguish and respond to sounds of equipment, instructor commands and communication from classmates. • Distinguish shapes, colors, safety symbols, and instructions. • Read technical manuals. • Use depth perception and peripheral vision.
Environmental	Possess the ability to tolerate environmental stressors.	• Tolerate variable indoor/outdoor temperatures. • Safely work with potentially hazardous materials. • Work in areas that are close, crowded and/or noisy. • Ability to walk and stand for extended periods of time.
Emotional/Behavioral	Possess emotional stability sufficient to assume responsibility/accountability for actions and maintain composure in stressful situations.	• Maintain composure and integrity, while navigating changing environments, stressful decisions and professional disagreements. • Maintain focus on attention to detail, while balancing multiple responsibilities such as safety and quality.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or

others.

Robotics & Industrial Controls

ROB TECHNICAL STANDARDS

All students in the Robotics & Industrial Controls Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem Solving Skills	The ability to apply theory and practices to address technical problems and challenges in class and labs.	The ability to use critical thinking techniques to troubleshoot problems and to form a plan for solving those problems. The ability to examine data and find patterns of equipment and production processes. The ability to recognize changes in production patterns and determine the cause of those changes.
Interpersonal Skills	The ability to interact with diverse individuals and groups in a friendly and professional way.	The ability to work in a self-sufficient and self-directed manner. The ability to work in a team or group setting with students of different backgrounds, ethnicity or gender. The ability to work in a diverse team or group of co-workers.
Communication Skills	The ability to effectively communicate through both verbal and written means.	The ability to read and understand information and ideas presented in writing. The ability to listen to and understand information and ideas presented through spoken words and sentences. The ability to clearly communicate information and ideas in speaking so others will understand. The ability to communicate information and ideas in writing so others will understand.

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Coping Skills	The ability to adapt and be productive in a dynamic environment.	Must be able to adapt to different teaching modalities, lab settings or classroom environments. The ability to handle stressful troubleshooting scenarios. The ability to work individually or in a group. The ability to know your location in relation to the environment or to know where other objects are in relation to you. The ability to work safely in an adverse environment such as extreme hot and cold environments.
Mobility/Motor Skills	The ability to move within the classroom or lab to perform basic physical tasks. Must be able to lift up to 50 pounds.	Participate in laboratory assignments. The ability to bend, stretch, twist or reach with your body, arms and/or legs. The ability to coordinate the movement of your arms, legs and torso together when the whole body is in motion. The ability to keep or regain your body balance or stay upright when in an unstable position. The ability to exert muscle force to lift, push, pull or carry objects.
Auditory Skills	The ability to recognize and interpret auditory signals or sounds.	Must be able to discern audible equipment alarms and tones. The ability to detect or tell the differences between sounds that may signify a equipment failure or an unsafe condition. The ability to tell the direction from which a sound originated. The ability to focus on a single source of sound in the presence of other distracting sounds. Must be able to hear instructions in an industrial environment. The ability to identify and understand the speech of another person.

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Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and other locations on the campus. Reading prints, schematics, charts and spreadsheets (written or on a computer monitor). Must be able to respond to visual displays on industrial equipment.	See and respond to warning light(s) of different colors. Read information on a computer monitor, TV or other screen devices (ex. touchscreen or teach pendant). The ability to determine relative distances using depth perception. The ability to recognize defects and/or minor damage in equipment and/or industrial systems. The ability to match or detect differences between colors, including shades of color and brightness.
Tactile Skills	The ability to physically manipulate common devices, tools or equipment.	Use hand tools needed to complete labs or projects. The ability to quickly and repeatedly adjust the controls of a machine to exact positions. The ability to make precisely coordinated movements to manipulate or assemble very small objects. The ability to coordinate two or more limbs while sitting, standing or lying down (like installing a device while laying on the floor). The ability to coordinate and time movements to match other moving objects, like grasping a moving part. The ability to quickly respond (with motions) to a signal (sound, light, picture) when it appears. The ability to make fast, simple, repeated movements of the fingers, hands and wrists.
Environmental	Must be able to function safely under varying environmental conditions. Must be able to wear lab-specific Personal Protective Equipment (PPE).	Appropriately wear safety PPE such as, but not limited to: safety glasses, face shields, gloves, fire resistant clothing, protective footwear and hearing protection. Tolerate course activities in an industrial lab with equipment noise and operating equipment. The ability to safely adapt to extreme temperature ranges. The ability to safely manage operations at various heights.

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Emotional/ Behavioral	The ability to maintain composure in a stressful situation, and to maintain accountability for ones own actions.	Must be alert and attentive during class and laboratory activities. Must be able to work on multiple projects while adhering to deadlines. The ability to work within a team environment. The ability to concentrate on a task over a period of time without being distracted. The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch or other sources. The ability to give and accept constructive criticism. The ability to demonstrate punctuality.

In the case of an otherwise qualified individual with a documented disability, appropriate and reasonable accommodations will be made unless doing so would fundamentally alter the essential training elements, cause undue hardship or produce a direct threat to the safety of the patient or student.

Solar Energy and Electrical Construction

SOL/ELC TECHNICAL STANDARDS

All students in the Solar Technology and/or Electrical Construction programs are expected to meet certain technical standards that are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Standard	Definition of Standard	Example
Critical Thinking/Problem-Solving Skills	Show the ability to complete classroom and lab coursework that simulates real-world problems.	• Show the ability to diagnose problems by using a meter or tools for specific applications. • Utilize theory and trade practices to maintain the functionality of the equipment. • Apply technical knowledge to the current situation or problem.
Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Be able to work alone or in a group and stay focused on the current task. • Demonstrate time management skills. • Communicate information with accuracy and respect.

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Communication Skills	Abilities sufficient for writing, reading and comprehending directions or instructions in the class or lab.	• Read a service manual and comprehend the information. • Complete course lab assignments and explain corrective actions in written and verbal formats. • Comprehend/follow written and verbal instructions.
Coping Skills	Abilities are sufficient to be productive in a classroom or lab environment.	• Be able to meet deadlines. • Be able to deal with critiques/criticism. • Maintain composure under stressful situations. • Maintain professionalism at all times.
Mobility/Motor Skills	Must possess the ability to lift, stand, stretch, squat, and crawl or contort to any position as required by the repair situation. All positions listed above will be encountered in the class, lab or a work-based learning setting on a consistent basis.	• Navigate around objects or obstacles on the floor or overhead. • Lift a minimum of 50 lbs. to chest level from the floor level. • Be able to work on stationary equipment that requires reaching, bending and potentially prone positions for up to 60 minutes. • Be able to move about the work area in various outside working conditions. • Be able to work in confining or tight spaces. • Operate hand and/or power tools continually. • Be able to complete physical course lab assignments for up to 90 minutes without sitting.
Auditory Skills	Auditory abilities are sufficient to work safely in an industry environment, class or lab.	• Detect sounds such as unusual noises in outdoor and indoor construction equipment. • Detect sounds being emitted from the motors, lifts and heavy equipment. • Be able to hear verbal instructions because line of sight is not always possible.
Visual Skills	Visual skills adequate to safely work in a class or lab with industrial equipment.	• Interpret information from diagrams, labs and test equipment. • Able to see in low or poor lighting conditions such as crawl spaces and attics. • Perceive different depths and dimensions.
Tactile Skills	Tactile skills adequate for work in a class or lab with industrial equipment.	• Be able to determine hot or cold temperatures by sense of touch.

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Emotional/Behavioral	Emotional/Behavioral skills are adequate to maintain composure in a stressful environment.	• Demonstrate flexibility to calmly change course while addressing a technical problem. • Follow the directions of an instructor, supervisor or lead technician. • Demonstrate professionalism, integrity and honesty. • Cope with stress and other factors while troubleshooting technical problems, both individually and as part of a group.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Surgical Technology

SRT TECHNICAL STANDARDS

All students in the Surgical Technology program are expected to meet certain technical standards that are essential for the successful completion of all phases of the program and that reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient for clinical judgment.	• Identify cause-effect relationships. • Plan/control activities (organizational skills). • Anticipation of a surgical sequence of events. • Ability to make decisions quickly. • Ability to respond to the appropriate surgical need in emergency situations. • Collect data, prioritize needs and anticipate reactions.
Interpersonal Skills	Abilities are sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Establish rapport with clients, instructors, staff, colleagues, and groups. • Employ appropriate ethical, professional and respectful values while providing care to diverse populations within the healthcare system. • Exhibit ethical behavior and exercise good judgment.

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Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Ability to enunciate clearly with all surgical personnel. • Ability to comprehend surgical team directives. • Ability to communicate information and ideas in speaking so others will understand. • Read, write, comprehend, and speak the English language to facilitate communication with instructors, patients and their family members, and other health care professionals.
Coping Skills	Ability to cope with stressful situations. Possess coping skills sufficient to maintain composure in stressful situations.	• Adapt rapidly to changing environments and/or stress. • Ability to maintain emotional composure. • Ability to perform despite the difficulty of the situation at hand.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction.	• Ability to lift and carry up to 50 pounds. • Ability to maintain a minimum of 18 inches from furniture and non-sterile personnel in confined spaces. • Able to move around without assistive devices. • Able to assist with and/or lift, move, position, and manipulate a patient who is unconscious with/without assistive devices. • Ability to load and pass sharps (scalpel, suture, needles) and power tools to another individual without causing injury to oneself or others. • Ability to stand or sit for prolonged periods of time, without breaks during surgical procedures (4-6 hours or longer). • Be able to refrain from nourishment or restroom breaks for prolonged periods of time (4-6 hours or longer).
Auditory Skills	Auditory abilities are sufficient to monitor and assess the needs of the surgical team and the patient.	• The ability to focus on a single source of sound in the presence of other distracting sounds. • Ability to hear a muted or low-pitched conversation from several feet away.

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Visual Skills	Visual ability sufficient for observation and assessment necessary in perioperative care.	• Ability to prepare and implement perioperative care. • Demonstrate sufficient visual acuity to differentiate between suture strands and suture needle tips, track needles smaller than an eyelash, discern increments on hypodermic syringes for medication handling and management, and visualize hand signals. • Demonstrate sufficient peripheral vision to anticipate and function while in the sterile surgical environment.
Tactile Skills	Tactile ability is sufficient for physical assessment.	• Differentiate between monofilament and multifilament suture strands and tissue types, and sense potential nicks from sharps through surgical gloves. • Manipulate instruments, supplies and equipment with speed, dexterity and good eye-hand coordination.
Olfactory Skills	Olfactory ability sufficient to detect significant environmental and client odors.	• Be able to detect odors sufficient to maintain environmental safety and patient needs and to tolerate various odors.
Environmental	Possess the ability to tolerate environmental stressors.	• Safely work with potentially harmful chemicals used in health care settings. • Practice standard precautions in the clinical setting. • Anticipate exposure to communicable diseases, body fluids, unpleasant sights/odors, and toxic substances.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Ability to assess a situation rationally and respond accordingly. • Ability to accept constructive criticism and show behavioral change. • Demonstrate honesty and integrity beyond reproach.

Texas State Technical College complies with applicable federal laws, including the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The college is committed to providing an inclusive learning environment that ensures equal access and participation in all programs. Qualified students with documented disabilities are encouraged to contact the Access and Learning Accommodations office (adarequest@tstc.edu) to discuss accommodation needs through an interactive, case-by-case review process. Accommodations must not fundamentally alter the essential requirements of the program, impose an undue hardship, or pose a direct threat to the health or safety of the student or others.

Vocational Nursing

LVN TECHNICAL STANDARDS

Nursing programs have established technical standards to ensure that students have the abilities required to function in the classroom, lab and clinical environment. These standards are essential for the successful completion of all phases of

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the program which reflect industry requirements and standards.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem-Solving Skills	Ability is sufficient for sound nursing judgment. Reasoning skills sufficient to perform deductive/inductive thinking for nursing decisions.	• Evaluate client or instrument responses, synthesize data and draw sound conclusions. • Collect data, prioritize needs and anticipate reactions. • Identify cause-effect relationships in clinical situations. • Transfer knowledge from one situation to another.
Interpersonal Skills	Abilities are sufficient to interact with individuals, families and groups from a variety of social, emotional, cultural, and intellectual backgrounds.	• Establish rapport with clients, instructors, staff, colleagues, and groups. • Respect and care for clients whose appearance, condition, beliefs, and values may conflict with your own. • Deliver nursing care regardless of the client's race, ethnicity, age, gender, religion, sexual orientation, or diagnosis. • Establish and maintain therapeutic boundaries. • Exhibit ethical behavior and exercise good judgment.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form.	• Document and interpret actions and client responses in a clear, professional and timely manner. • Convey information to clients and others as necessary to teach and direct in an accurate, effective and timely manner. • Recognize and report critical client information to other caregivers. • Read, write, comprehend, and speak the English language to facilitate communication with instructors, clients and their family members, and other health care professionals.
Coping Skills	Possess coping skills sufficient to maintain composure in stressful situations.	• Adapt rapidly to changing environments and/or stress.

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Mobility/Motor Skills	Gross and fine motor abilities are sufficient to provide safe and effective nursing care and emergency treatment.	• Move around in work and treatment areas. • Administer cardiopulmonary resuscitation. • Stand and/or walk up to 12 hours per day with or without breaks. • Calibrate and use the equipment. • Reposition immobile clients. • Push/pull 100 lbs. or greater. • Lift/move heavy objects up to 50 lbs. • Pinch/pick or otherwise work with fingers.
Auditory Skills	Auditory abilities are sufficient to monitor and assess health needs.	• Hear internal body sounds with the use of a stethoscope. • Hear auditory alarms (monitors, fire alarms, call bells). • Hear cries for help.
Visual Skills	Visual ability sufficient for observation and assessment necessary in nursing.	• Observe client responses, see a change in skin color, and read calibrations on a syringe. • See objects up to 20 feet away. • Read electronic medical records and/or associated paper medical records.
Tactile Skills	Tactile ability is sufficient for physical assessment.	• Perform functions of the physical assessment and/or those related to therapeutic intervention (e.g. insertion of a catheter, palpation of pulse, detecting temperature changes).
Olfactory Skills	Olfactory ability sufficient to detect significant environmental and client odors.	• Detect odors from clients.
Environmental	Possess the ability to tolerate environmental stressors.	• Safely work with potentially harmful chemicals used in health care settings. • Practice standard precautions in the clinical setting. • Work in areas that are close, crowded and/or noisy. • Anticipate exposure to communicable diseases, body fluids and toxic substances.
Emotional/Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	• Calmly receive feedback. • Demonstrate honesty and integrity beyond reproach.

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Additional Admission Requirements for LVN Program:

- Driver's license or valid identification card
- A physical will be required from your physician stating you are able to meet the standards listed here.
- Health insurance
- Clear drug screen
- Current program required vaccinations
- Clearance from Texas Board of Nursing (background check and/or fingerprinting as indicated by the Board of Nursing)

Welding Technology

WLT TECHNICAL STANDARDS

All students in the Welding Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Critical Thinking/Problem Solving Skills	Ability is sufficient to apply welding principles and practices to address technical problems and challenges in class and labs with industrial equipment. Understand welding and technical documents and interpret the data to solve problems.	The ability to choose the right mathematical methods or formulas to solve a problem. The ability to add, subtract, multiply or divide quickly and correctly. The ability to remember information, such as words, numbers, pictures and procedures. The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations). The ability to generate or use different sets of rules for combining or grouping things in different ways. The ability to come up with unusual or clever ideas about a given topic or situation or to develop creative ways to solve a problem. The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem. The ability to apply general rules to specific problems to produce answers that make sense. The ability to combine pieces of information to form general rules or conclusions. The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.

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Interpersonal Skills	Abilities are sufficient to interact with individuals and groups from a variety of social, emotional, cultural and intellectual backgrounds. Must be able to effectively work in teams or groups.	The ability to work in a self-sufficient and self-directed manner. The ability to work in a team or group setting with students of different backgrounds, ethnicity or gender. The ability to work in a diverse team or group of co-workers.
Communication Skills	Abilities are sufficient for interaction with others in verbal and written form. Effectively communicate using oral and written technical documents. Must be able to read equipment instructions and machine controls in English.	Read technical specifications. Read and understand machine labels, controls and instruction material. The ability to listen to and understand information and ideas presented through spoken words and sentences. The ability to communicate information and ideas in speaking so others will understand. The ability to speak clearly so others can understand you. The ability to read and understand information and ideas presented in writing. The ability to communicate information and ideas in writing so others will understand.
Coping Skills	Abilities are sufficient to be productive in a classroom, lab or industrial atmosphere.	Must be able to adapt to different teaching modalities, lab settings or classroom environments. The ability to work individually or in a group. The ability to know your location in relation to the environment or to know where other objects are in relation to you.
Mobility/Motor Skills	Physical abilities are sufficient to move in one's environment with ease and without restriction. Must be able to lift up to 50 pounds. Must be able to operate electrical/mechanical controls.	Participate in laboratory assignments. The ability to quickly and repeatedly bend, stretch, twist or reach out with your body, arms and/or legs. The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue. The ability to coordinate the movement of your arms, legs and torso together when the whole body is in motion. The ability to keep or regain your body balance or stay upright when in an unstable position. The ability to exert muscle force to lift, push, pull or carry objects. The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without "giving out" or fatiguing.

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Auditory Skills	Auditory abilities are sufficient to work effectively and safely. Must be able to respond to audible indicators and discern potentially hazardous noises from industrial personnel and equipment.	Must be able to discern audible equipment alarms and tones. The ability to detect or tell the differences between sounds that vary in pitch and volume. The ability to tell the direction from which a sound originated. The ability to focus on a single source of sound in the presence of other distracting sounds. Must be able to hear instructions from faculty in a welding environment. The ability to identify and understand the speech of another person.
Visual Skills	Visual ability is sufficient for observation and assessment necessary in the classroom, lab and other locations on the campus. Reading prints, schematics, charts and spreadsheets (written or on a computer monitor). Must be able to respond to visual displays on industrial equipment.	See and respond to warning light(s). Read information on a computer monitor, TV or other screen devices (ex. touchscreen or teach pendant). The ability to judge which of several objects is closer or farther away from you or to judge the distance between you and an object. The ability to see details at a distance. The ability to see objects in the presence of glare or bright lighting. The ability to see details at close range (within a few feet of the observer). The ability to see under low light conditions. The ability to see objects or movement of objects to one's side when the eyes are looking ahead. The ability to match or detect differences between colors, including shades of color and brightness.

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Tactile Skills	Tactile skills adequate for work in a classroom or lab with industrial equipment. Have appropriate dexterity to use common industry hand tools and equipment.	Use hand tools needed to complete labs or projects. The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position. The ability to quickly and repeatedly adjust the controls of a machine to exact positions. The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble very small objects. The ability to quickly move your hand, your hand together with your arm or your two hands to grasp, manipulate or assemble objects. The ability to coordinate two or more limbs (for example, two arms, two legs or one leg and one arm) while sitting, standing or lying down. The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object. The ability to quickly respond (with the hand, finger or foot) to a signal (sound, light, picture) when it appears. The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot or other body part. The ability to quickly move the arms and legs. The ability to make fast, simple, repeated movements of the fingers, hands and wrists.
Environmental	Must be able to function safely under varying environmental conditions. Must be able to wear lab-specific personal protective equipment (PPE).	Appropriately wear safety PPE such as, but not limited to: safety glasses, face shields, gloves, fire resistant clothing, welding hood and hearing protection. Tolerate course activities in an industrial lab with equipment noise and operating equipment. Tolerate extreme temperature ranges. The ability to manage operations at various heights.

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Emotional/ Behavioral	Possess emotional stability sufficient to maintain composure in stressful situations and assume responsibility/accountability for actions.	Must be alert and attentive during class and laboratory activities. Must be able to work on multiple projects while adhering to deadlines. The ability to fit in and work with a team when required. The ability to concentrate on a task over a period of time without being distracted. The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch or other sources). The ability to accept constructive criticism. The ability to demonstrate punctuality.

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Wind Energy Technology

WET STANDARDS

All students in the Wind Energy Technology degree program are expected to meet certain technical standards which are essential for the successful completion of all phases of the program, and which reflect industry requirements and standards. To verify the student's ability to perform these essential functions, students may be required to demonstrate the technical standards below.

Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to meet the program's technical standards does not guarantee a student's eligibility for any certification exams or successful completion of the program.

Technical Standard	Definition of Standards	Examples
Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.	Ability to use different formulas to solve complex problems.
Deductive Reasoning	The ability to apply general rules to specific problems to produce answers that make sense.	Ability to deduce the problem in a complex circuit.

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Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	• Ability to troubleshoot complex formulas.
Fluency of Ideas	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness or creativity).	• Ability to look at situations from different angles to form multiple ideas about a topic.
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	• The ability to find a relationship among seemingly unrelated events.
Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	• The ability to correctly enter data, component tolerances, and follow LOTO rules.
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	• Ability to use different formulas to solve complex problems.
Memorization	The ability to remember information, such as words, numbers, pictures, and procedures.	• Ability to remember words, numbers, pictures and procedures.
Number Facility	The ability to add, subtract, multiply, or divide quickly and correctly.	• The ability to calculate electrical current, resistance and capacity.
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	• The ability to follow instructions and directions.
Oral Expression	The ability to communicate information and ideas verbally so others will understand.	• The ability to communicate effectively in all situations.
Originality	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	• The ability to "think outside the box" to solve problems.
Perceptual Speed	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	• The ability to read numbers and letters on components to distinguish similarities and differences.
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.	• The ability to tell when there is an issue with a running turbine before it becomes faulted.

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Selective Attention	The ability to concentrate on a task over a period of time without being distracted.	The ability to concentrate through distractions such as weather temperature, noise and discussions around you.
Spatial Orientation	The ability to know your location in relation to the environment or to know where other objects are in relation to you.	The ability to work in confined spaces with rotating equipment, etc.
Speed of Closure	The ability to quickly make sense of, combine and organize information into meaningful patterns.	The ability to quickly assess situations in a high-voltage environment.
Time Sharing	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	The ability to troubleshoot a panel using vocal and tactile abilities simultaneously.
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	The ability to remove components from a circuit and replace them into the same places.
Written Comprehension	The ability to read and understand information and ideas presented in writing.	The ability to read a procedure and follow it.
Written Expression	The ability to communicate information and ideas in writing so others will understand.	The ability to log information on what work has taken place in a given day for future assessment.
Auditory Attention	The ability to focus on a single source of sound in the presence of other distracting sounds.	Ability to hear different frequencies from high to low.
Depth Perception	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	Ability to judge distance.
Far Vision	The ability to see details at a distance.	Ability to judge distance.
Glare Sensitivity	The ability to see objects in the presence of glare or bright lighting.	The ability to see objects while working outside a turbine in the sunshine.
Hearing Sensitivity	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	The ability to decipher sounds coming from a running turbine that could mean something is broken.
Near Vision	The ability to see details at close range (within a few feet of the observer).	The ability to read gauges and instruments.

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Night Vision	The ability to see under low light conditions.	• Ability to see in low light.
Peripheral Vision	The ability to see objects or movement of objects to one's side when the eyes are looking ahead.	• The ability to see objects in peripheral vision while working directly in front of you.
Sound Localization	The ability to tell the direction from which a sound originated.	• The ability to recognize the origin of alarms, component failures, etc.
Speech Clarity	The ability to speak clearly so others can understand.	• The ability to clearly verbalize situations in a team environment.
Speech Recognition	The ability to identify and understand the speech of another person.	• The ability to hear effectively when working at heights in a high-voltage turbine.
Visual Color Discrimination	The ability to match or detect differences between colors, including shades of color and brightness.	• The ability to recognize wire-colors.
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm, or while holding your arm and hand in one position.	• Ability to hold small or large tools for extended periods of time.
Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	• Ability to remove or insert small wires or screws into circuit boards without disturbing other equipment.
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate or assemble very small objects.	• Ability to repeatedly insert and remove small pieces of equipment with screwdrivers, etc.
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate or assemble objects.	• Ability to repeatedly operate and maintain equipment with torquing tools, etc.
Multi-Limb Coordination	The ability to coordinate two or more limbs (for example, two arms, two legs, or one leg and one arm) while sitting, standing or lying down. It does not involve performing the activities while the whole body is in motion.	• The ability to work in small spaces in the nacelle or hub of a turbine that may require sitting, or lying down to reach the work area.
Rate Control	The ability to time your movements or the movement of a piece of equipment in anticipation of changes in the speed and/or direction of a moving object or scene.	• The ability to gauge speed and direction of movement, particularly while rigging/lifting heavy equipment.
Reaction Time	The ability to quickly respond (with the hand, finger or foot) to a signal (sound, light, picture) when it appears.	• The ability to recognize system alerts and respond accordingly, immediately.

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Response Orientation	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot or other body part.	• Ability to stand on uneven surfaces for extended periods while working in cabinets.
Speed of Limb Movement	The ability to quickly move the arms and legs.	• The ability to quickly move and react while working in an electrical environment.
Wrist-Finger Speed	The ability to make fast, simple, repeated movements of the fingers, hands and wrists.	• The ability to use a screwdriver to remove or replace bolts and screws on components.
Dynamic Flexibility	The ability to quickly and repeatedly bend, stretch, twist, or reach out with your body, arms and/or legs.	• The ability to move equipment from the yaw deck of a turbine up into the nacelle, or vice versa.
Dynamic Strength	The ability to exert muscle force repeatedly or continuously over time. This involves muscular endurance and resistance to muscle fatigue.	• The ability to move equipment from the yaw deck of a turbine up into the nacelle, or vice versa.
Explosive Strength	The ability to use short bursts of muscle force to propel oneself (as in jumping or sprinting), or to throw an object.	• The ability to adapt to various situations that may require agility, rigging, etc.
Extent Flexibility	The ability to bend, stretch, twist, or reach with your body, arms and/or legs.	• The ability to work in confined, awkward work areas within the turbine.
Gross Body Coordination	The ability to coordinate the movement of your arms, legs and torso together when the whole body is in motion.	• The ability to ascend or descend a turbine by ladder.
Gross Body Equilibrium	The ability to keep or regain your body balance or stay upright when in an unstable position.	• The ability to stay upright when the wind is swaying a turbine.
Stamina	The ability to exert yourself physically over long periods of time without getting winded or out of breath.	• The ability to ascend or descend a turbine by ladder.
Static Strength	The ability to exert maximum muscle force to lift, push, pull, or carry objects.	• The ability to move equipment from the yaw deck of a turbine up into the nacelle, or vice versa.
Trunk Strength	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time, without "giving out" or fatiguing.	

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Program Areas

Academic Core Curriculum

Description

TSTC's Academic Core can provide you with a broad general understanding of communication skills, critical thinking, inquiry and research, and multiple perspectives about an individual and the world that we live in. With Academic Core classes, you can transfer credits to another public college or university, complete an AAS or AS at TSTC and transfer all the classes as a block to another public college or university, and get your "basics" out of the way. After completing the Academic Core courses at TSTC, you'll receive an institutional certificate of completion.

Academic Core Curriculum - General Academic - Core Curriculum Completion

Locations

Harlingen

Modality

Online
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - ENGL1301 - Composition I (3)
 - GOVT2305 - Federal Government (Federal constitution & topics) (3)
 - ACGM3CAR - Creative Arts Elective (3)
 - ACGM3CAOB - Component Area Option (3)

Semester 2
15 Total Credits



- Complete the following:
 - ENGL1302 - Composition II (3)
 - GOVT2306 - Texas Government (Texas constitution & topics) (3)
 - HIST1301 - United States History I (3)
 - ACGM3LPS - Life and Physical Science Elective (3)
 - ACGM3CAOA - Component Area Option A (3)

Semester 3
15 Total Credits



- Complete the following:
 - ACGM3LPS - Life and Physical Science Elective (3)
 - HIST1302 - United States History II (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)
 - ACGM3LPC - Language, Philosophy and Culture Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **42**

Pre/Corequisites

- ENGL 1302 Prerequisite(s): ENGL 1301

Elective Options

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- Complete at least 1 courses from the following:



Creative Arts Elective

- ARTS1301 - Art Appreciation (3)
- MUSI1306 - Music Appreciation (3)

- Complete at least 1 courses from the following:



Component Area Option B (for Academic Core Curriculum)

- SPCH1311 - Introduction to Speech Communication (3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication (3)

- Complete at least 2 courses from the following:



Life & Physical Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- PHYS1301 - College Physics I (lecture)(3)
- PHYS1302 - College Physics II (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

- Complete at least 1 courses from the following:



Component Area Option A (for Academic Core Curriculum)

- BIOL1106 - Biology for Science Majors Laboratory I (lab)(1)
- BIOL1107 - Biology for Science Majors II Lab(1)
- BIOL1108 - Biology Non-Science Majors Laboratory I(1)
- BIOL1109 - Biology for Non-Science Majors II Lab(1)
- BIOL2101 - Anatomy & Physiology I (lab)(1)
- BIOL2102 - Anatomy & Physiology II (lab)(1)
- CHEM1111 - General Chemistry I (lab)(1)
- CHEM1112 - General Chemistry II (lab)(1)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2331 - World Literature (3)
- PHYS1101 - College Physics Laboratory I(1)
- PHYS1102 - College Physics Lab II(1)
- PHYS1115 - Physical Science Lab I(1)
- PHYS1117 - Physical Science Laboratory II(1)
- PSYC2314 - Lifespan Growth & Development(3)

- Complete at least 1 courses from the following:



Mathematics Elective (for Academic Core)

- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH2312 - Pre-Calculus Math (3 SCH version)(3)

- Complete at least 1 courses from the following:



Language, Philosophy & Culture Elective

- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2331 - World Literature (3)
- PHIL1304 - Introduction to World Religions(3)

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective (for Academic Core Majors)

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- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development (3)
- SOCI1301 - Introduction to Sociology (3)
- Complete all courses from the following:
 - ^
 - Communication (for Academic Core)
 - ENGL1301 - Composition I (3)
 - ENGL1302 - Composition II (3)
- Complete all courses from the following:
 - ^
 - Government/Political Science
 - GOVT2305 - Federal Government (Federal constitution & topics) (3)
 - GOVT2306 - Texas Government (Texas constitution & topics) (3)
- Complete all courses from the following:
 - ^
 - American History
 - HIST1301 - United States History I (3)
 - HIST1302 - United States History II (3)

Advanced Manufacturing - Automation & Robotics

Description

TSTC's Advanced Manufacturing - Automation & Robotics program prepares students to succeed in this exploding career field. The foundation of this program emphasizes the study of electrical & mechanical troubleshooting that is common to all advanced manufacturing industries. The program goes on to study programmable logic controller programming and interfacing, robot motion programming, industrial sensors, HMI graphical interfaces, and Variable Frequency Drives for advanced motor control.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Advanced Manufacturing - Automation & Robotics - Advanced Manufacturing - Automation & Robotics AAS

Locations

Fort Bend County
Harlingen
Marshall
Sweetwater
Waco
Williamson County

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits

^

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - INMT1305 - Introduction to Industrial Maintenance (3)

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- INMT1373 - Print Reading for Industrial Equipment Technician (3)
- MATH1314 - College Algebra (3 SCH version) (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1341 - Motor Control (3)
 - RBTC1347 - Electro-Mechanical Devices (3)
 - Complete at least 3 credits from the following:
 - PHYS1315 - Physical Science I (lecture) (3)
 - PHYS1310 - Elementary Physics (3)

Semester 3

12 Total Credits



- Complete all of the following
 - Complete the following:
 - RBTC1355 - Sensors (3)
 - RBTC1301 - Programmable Logic Controllers (3)
 - RBTC2339 - Robot Programming and Diagnostics (3)
 - Complete at least 3 credits from the following:
 - ITNW1325 - Fundamentals of Networking Technologies (3)
 - AACT1376 - Introduction to Process Control Devices (3)

Semester 4

12 Total Credits



- Complete all of the following
 - Complete the following:
 - RBTC1371 - Industrial Motors and Drives (3)
 - RBTC1345 - Robot Interfacing (3)
 - ELMT2339 - Advanced Programmable Logic Controllers (3)
 - Complete at least 3 credits from the following:
 - MECH2373 - Industry 4.0 Project (3)
 - INTC1343 - Application of Industrial Automatic Controls (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - RBTC2347 - Computer Integrated Manufacturing (3)
 - INMT2388 - Internship - Manufacturing Technology/Technician (3)
 - Complete at least 3 credits from the following:
 - ENGL2311 - Technical & Business Writing (3)
 - ENGL1301 - Composition I (3)
 - Complete the following:
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete at least 3 credits from the following:
 - RBTC2347 - Computer Integrated Manufacturing (3)
 - INMT2388 - Internship - Manufacturing Technology/Technician (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303
- ELPT 1341 Prerequisite(s): AACT 1371 or CETT 1303 or ELPT 1311 or ELPT 1319 or INMT 1372
- RBTC 1355 Prerequisite(s): RBTC 1347
- RBTC 1301 Prerequisite(s): ELPT 1341 or INTC 1357
- RBTC 1371 Prerequisite(s): RBTC 1301, ELPT 1341
- RBTC 1345 Prerequisite(s): RBTC 1347, RBTC 2339
- ELMT 2339, MECH 2373 Prerequisite(s): RBTC 1301
- INTC 1343 Prerequisite(s): AACT 1376
- RBTC 2347 Prerequisite(s): RBTC 1345, RBTC 1355
- INMT 2388 Prerequisite(s): (RBTC 1345, RBTC 1355) or INMT 1371

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology (3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

Advanced Manufacturing - Automation & Robotics - Advanced Manufacturing - Automation & Robotics CER2

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Locations

Fort Bend County
Harlingen
Marshall
Sweetwater
Waco
Williamson County

Modality

Hybrid

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - INMT1305 - Introduction to Industrial Maintenance (3)
 - INMT1373 - Print Reading for Industrial Equipment Technician (3)
 - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2
12 Total Credits



- Complete all of the following
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1341 - Motor Control (3)
 - RBTC1347 - Electro-Mechanical Devices (3)
 - Complete at least 3 credits from the following:
 - PHYS1315 - Physical Science I (lecture) (3)
 - PHYS1310 - Elementary Physics (3)

Semester 3
12 Total Credits



- Complete all of the following
 - Complete the following:
 - RBTC1355 - Sensors (3)
 - RBTC1301 - Programmable Logic Controllers (3)
 - RBTC2339 - Robot Programming and Diagnostics (3)
 - Complete at least 3 credits from the following:
 - ITNW1325 - Fundamentals of Networking Technologies (3)
 - AACT1376 - Introduction to Process Control Devices (3)

Semester 4
12 Total Credits



- Complete all of the following
 - Complete the following:
 - RBTC1371 - Industrial Motors and Drives (3)
 - RBTC1345 - Robot Interfacing (3)
 - ELMT2339 - Advanced Programmable Logic Controllers (3)
 - Complete at least 3 credits from the following:
 - MECH2373 - Industry 4.0 Project (3)
 - INTC1343 - Application of Industrial Automatic Controls (3)

Degree Plan Credits **48**

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Capstone

- Complete the following:
 - ELMT2339 - Advanced Programmable Logic Controllers (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303
- ELPT 1341 Prerequisite(s): AACT 1371 or CETT 1303 or ELPT 1311 or ELPT 1319 or INMT 1372
- RBTC 1355 Prerequisite(s): RBTC 1347
- RBTC 1301 Prerequisite(s): ELPT 1341 or INTC 1357
- RBTC 1371 Prerequisite(s): RBTC 1301, ELPT 1341
- RBTC 1345 Prerequisite(s): RBTC 1347, RBTC 2339
- RBTC 2339, MECH 2373 Prerequisite(s): RBTC 1301
- INTC 1343 Prerequisite(s): AACT 1376

Advanced Manufacturing - Industrial Maintenance

Description

The Industrial Maintenance award is one of the pathways for the Advanced Manufacturing Technology program. The courses in this program are chosen to guide students into a successful career in an industrial technology environment. A graduate has the opportunity to work with installation, troubleshooting and repair of mechanical, electrical and fluid power systems. The skills the student will learn and demonstrate are directed at cutting-edge mechanical and electrical operations, providing you with knowledge and skills in hydraulics, pneumatics, pumps and compressors, machinery installation and alignment, motor controls, basic programming and installation of programmable logic controllers (PLCs) and variable frequency drives (VFDs), and troubleshooting individual systems as well as systems that combine all of the specific skills. This program takes basic comprehension of component and system theory and grows those skills into a full hands-on lab experience that will closely simulate a taste of an industrial environment. For quicker entry into the industry, industrial maintenance certificates are also available.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Advanced Manufacturing - Industrial Maintenance - Advanced Manufacturing - Industrial Maintenance AAS

Locations

Abilene
Fort Bend County
Marshall
New Braunfels
North Texas
Waco
Williamson County
Harlingen

Modality

Hybrid

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Program Requirements

Semester 1

15 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - INMT1305 - Introduction to Industrial Maintenance (3)
 - INMT1373 - Print Reading for Industrial Equipment Technician (3)
 - RBTC1309 - Pneumatics (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 2

15 Total Credits



- Complete all of the following
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1341 - Motor Control (3)
 - RBTC1347 - Electro-Mechanical Devices (3)
 - INMT2301 - Machinery Installation (3)
 - Complete at least 3 credits from the following:
 - ENGL2311 - Technical & Business Writing (3)
 - ENGL1301 - Composition I (3)

Semester 3

15 Total Credits



- Complete the following:
 - HYDR1305 - Basic Hydraulics (3)
 - INMT1371 - Industrial Manufacturing PLC Installation (3)
 - INMT2303 - Pumps, Compressors & Mechanical Drives (3)
 - MCHN2305 - Millwright III (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 4

15 Total Credits



- Complete the following:
 - INMT2345 - Industrial Troubleshooting (3)
 - INMT2371 - Intermediate PLC Applications (3)
 - HYDR1345 - Hydraulics and Pneumatics (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303
- ELPT 1341 Prerequisite(s): AACT1371, CETT1303, ELPT1311, ELPT1319, INMT1372
- INMT 2301 Prerequisite(s): INMT 1305
- INMT 1371 Prerequisite(s): ELPT 1341
- INMT 2303 Prerequisite(s): INMT 1305
- INMT 2345 Prerequisite(s): ELPT 1341
- INMT 2371 Prerequisite(s): ELPT 2319 or INMT 1371

Elective Options

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- Complete all courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1325 - Calculus for Business & Social Sciences(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- MATH1350 - Math - Teachers I Fundamentals of Math I(3)
- MATH1351 - Fundamentals of Mathematics II(3)
- MATH2312 - Pre-Calculus Math (3 SCH version)(3)
- MATH2313 - Calculus I(3)
- MATH2318 - Linear Algebra (3)
- MATH2320 - Differential Equations (3 SCH version)(3)
- MATH2342 - Elementary Statistical Methods(3)
- MATH2313 - Calculus I(3)
- MATH2414 - Calculus II (4 SCH version)(4)
- MATH2415 - Calculus III (4 SCH version)(4)

- Complete all courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

- Complete all courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

- Complete all courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)

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- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

Advanced Manufacturing - Industrial Maintenance - Advanced Manufacturing - Industrial Maintenance CER2

Locations

Abilene
Fort Bend County
Harlingen
Marshall
New Braunfels
North Texas
Waco
Williamson County

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - INMT1305 - Introduction to Industrial Maintenance (3)
 - INMT1373 - Print Reading for Industrial Equipment Technician (3)
 - RBTC1309 - Pneumatics (3)

Semester 2

12 Total Credits



- Complete the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1341 - Motor Control (3)
 - RBTC1347 - Electro-Mechanical Devices (3)
 - INMT2301 - Machinery Installation (3)

Semester 3

12 Total Credits



- Complete the following:
 - HYDR1305 - Basic Hydraulics (3)
 - INMT1371 - Industrial Manufacturing PLC Installation (3)
 - INMT2303 - Pumps, Compressors & Mechanical Drives (3)
 - MCHN2305 - Millwright III (3)

Semester 4

9 Total Credits



- Complete the following:
 - INMT2345 - Industrial Troubleshooting (3)
 - INMT2371 - Intermediate PLC Applications (3)
 - HYDR1345 - Hydraulics and Pneumatics (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303
- ELPT 1341 Prerequisite(s): AACT 1371 or CETT 1303 or ELPT 1311 or ELPT 1319 or INMT 1372
- INMT 2301, INMT 2303 Prerequisite(s): INMT 1305
- INMT 1371 Prerequisite(s): ELPT 1341
- INMT 2345 Prerequisite(s): ELPT 1341
- INMT 2371 Prerequisite(s): ELPT 2319 or INMT 1371

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Advanced Manufacturing - Industrial Maintenance - Advanced Manufacturing CER1

Locations

Abilene
Fort Bend County
Harlingen
Marshall
New Braunfels
North Texas
Sweetwater
The WorkSITE
Waco
Williamson County

Modality

Hybrid

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - INMT1305 - Introduction to Industrial Maintenance (3)
 - INMT1373 - Print Reading for Industrial Equipment Technician (3)

Semester 2
9 Total Credits



- Complete the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1341 - Motor Control (3)
 - RBTC1347 - Electro-Mechanical Devices (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - ELPT1341 - Motor Control (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303
- ELPT 1341 Prerequisite(s): AACT 1371 or CETT 1303 or ELPT 1311 or ELPT 1319 or INMT 1372

Advanced Manufacturing - Industrial Maintenance - Industrial Systems Technology - Advanced Manufacturing Technology AAS

Locations

New Braunfels

Modality

Hybrid

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - INMT1373 - Print Reading for Industrial Equipment Technician (3)
 - INMT1372 - Introduction to Industrial Electricity (3)
 - INMT1305 - Introduction to Industrial Maintenance (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 2

12 Total Credits



- Complete the following:
 - ELPT1341 - Motor Control (3)
 - HYDR1305 - Basic Hydraulics (3)
 - INMT2303 - Pumps, Compressors & Mechanical Drives (3)
 - SPCHX3XX - Gen Ed Speech Elective (3)

Semester 3

9 Total Credits



- Complete all of the following
 - Complete the following:
 - ELPT2305 - Motors and Transformers (3)
 - MCHN1338 - Basic Machine Shop I (3)
 - Course Not Found
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 4

12 Total Credits



- Complete the following:
 - RBTC1301 - Programmable Logic Controllers (3)
 - RBTC1309 - Pneumatics (3)
 - INMT2301 - Machinery Installation (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5

6 Total Credits



- Complete the following:
 - ELPT2331 - AC/DC Drives (3)
 - Course Not Found
 - Course Not Found
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **51**

Capstone

- Complete the following:
 - Course Not Found

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Pre/Corequisites

- Complete all of the following
 - ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or ELPT 1319 or INMT 1372
 - INMT 2303 Prerequisite(s): INMT 1305
 - ELPT 2305 Prerequisite(s): ELPT 1341 (Pre or Co)
 - MCHN 1338 Prerequisite(s): INMT 1373
 - RBTC 1301 Prerequisite(s): ELPT 1341 or INTC 1357
 - INMT 2301 Prerequisite(s): INMT 1305
 - ELPT 2331 Prerequisite(s): (ELPT 1351 or ELPT 2305), ELPT 1341
 - INMT 2372 Prerequisite(s): RBTC 1301

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Elective Options

- Complete all courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete all courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
 - SPCH1315 - Public Speaking (3)
 - SPCH1318 - Interpersonal Communication(3)
 - SPCH1321 - Business & Professional Communication(3)
- Complete all courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation (3)
- Complete all courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

Advanced Manufacturing - Semiconductor

Description

TSTC's Semiconductor Technology program prepares students to succeed in this exploding career field. The foundation of this program emphasizes the study of electrical & mechanical troubleshooting that is common to all advanced manufacturing industries. The program goes on to study the basics of Semiconductor manufacturing, the fundamentals of vacuum technology, plasma systems, and statistical process control. Coursework also covers robot motion programming, industrial sensors, motor controls, and pneumatics.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Aircraft Airframe Technology

Description

Aviation maintenance technicians are a vital part of the aerospace industry workforce; inspecting, servicing and maintaining aircraft worldwide. The Aircraft Airframe specialty trains students specifically in major airframe components and structures, such as hydraulics/pneumatics, landing gear systems, sheet metal and composite technology. Airframe technicians are employed by repair stations, contract maintenance facilities, general aviation maintenance, and regional and national airlines. For quicker entry into the industry, an Aircraft Airframe Technician certificate is also available.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Aircraft Airframe Technology - Aviation Maintenance Technology - Airframe AAS

Locations

Waco
Harlingen
Abilene

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AERM1107 - Aviation Mathematics (1)
 - AERM1109 - Aviation Physics (1)
 - AERM1112 - Aviation Drawings (1)
 - AERM1315 - Aviation Science (3)
 - Complete the following:
 - AERM1203 - Shop Practices (2)
 - AERM1205 - Weight and Balance (2)
 - AERM1208 - Federal Aviation Regulations (2)
 - AERM1210 - Ground Operations (2)
 - AERM1414 - Basic Electricity (4)

Semester 2

16 Total Credits



- Complete the following:
 - AERM1347 - Airframe Auxiliary Systems (3)
 - AERM1345 - Airframe Electrical Systems (3)
 - AERM1350 - Landing Gear Systems (3)
 - AERM1449 - Hydraulic, Pneumatic, and Fuel Systems (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3

13 Total Credits



- Complete the following:
 - AERM1241 - Wood, Fabric, and Finishes (2)
 - AERM1243 - Instruments and Navigation/Communication (2)
 - AERM1153 - Aircraft Welding (1)
 - AERM1254 - Aircraft Composites (2)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4

16 Total Credits



- Complete all of the following
 - Complete the following:
 - AERM1352 - Aircraft Sheet Metal (3)
 - AERM2230 - FAA Review - Airframe (2)
 - AERM2231 - Airframe Inspection (2)
 - AERM2333 - Assembly and Rigging (3)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - AERM2230 - FAA Review - Airframe (2)

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Pre/Corequisites

- AERM 1347 Prerequisite(s): (AERM 1109 or AERM 1315) and (AERM 1314 or AERM 1414)
- AERM 1345, AERM 1243 Prerequisite(s): AERM 1314 or AERM 1414
- AERM 1350 Prerequisite(s): (AERM 1203, AERM 1315) or (AERM 1203, AERM 1109)
- AERM 1449, AERM 2333 Prerequisite(s): AERM 1109 or AERM 1315
- AERM 1153 Prerequisite(s): AERM 1203
- AERM 1352 Prerequisite(s): (AERM 1107, AERM 1112, AERM 1203) or (AERM 1315, AERM 1203)

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography(3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete 1 General Education Elective as recommended by program

2026-2027 Catalog & Student Handbook

Aircraft Airframe Technology - Aviation Maintenance Technology - Airframe CER1

Locations

Waco
Harlingen
Abilene

Modality

Hybrid

Program Requirements

Semester 1
15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AERM1107 - Aviation Mathematics (1)
 - AERM1109 - Aviation Physics (1)
 - AERM1112 - Aviation Drawings (1)
 - AERM1315 - Aviation Science (3)
 - Complete the following:
 - AERM1203 - Shop Practices (2)
 - AERM1205 - Weight and Balance (2)
 - AERM1208 - Federal Aviation Regulations (2)
 - AERM1210 - Ground Operations (2)
 - AERM1414 - Basic Electricity (4)

Degree Plan Credits **15**

Capstone

- Complete the following:
 - AERM1414 - Basic Electricity (4)

Aircraft Airframe Technology - Aviation Maintenance Technology - Airframe CER2

Locations

Waco
Harlingen
Abilene

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AERM1107 - Aviation Mathematics (1)
 - AERM1109 - Aviation Physics (1)
 - AERM1112 - Aviation Drawings (1)
 - AERM1315 - Aviation Science (3)
 - Complete the following:
 - AERM1203 - Shop Practices (2)
 - AERM1205 - Weight and Balance (2)
 - AERM1208 - Federal Aviation Regulations (2)
 - AERM1210 - Ground Operations (2)
 - AERM1414 - Basic Electricity (4)

Semester 2

13 Total Credits



- Complete the following:
 - AERM1347 - Airframe Auxiliary Systems (3)
 - AERM1345 - Airframe Electrical Systems (3)
 - AERM1350 - Landing Gear Systems (3)
 - AERM1449 - Hydraulic, Pneumatic, and Fuel Systems (4)

Semester 3

7 Total Credits



- Complete the following:
 - AERM1241 - Wood, Fabric, and Finishes (2)
 - AERM1243 - Instruments and Navigation/Communication (2)
 - AERM1153 - Aircraft Welding (1)
 - AERM1254 - Aircraft Composites (2)

Semester 4

10 Total Credits



- Complete the following:
 - AERM1352 - Aircraft Sheet Metal (3)
 - AERM2230 - FAA Review - Airframe (2)
 - AERM2231 - Airframe Inspection (2)
 - AERM2333 - Assembly and Rigging (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - AERM2230 - FAA Review - Airframe (2)

Pre/Corequisites

- AERM 1347 Prerequisite(s): (AERM 1109 or AERM 1315) and (AERM 1314 or AERM 1414)
- AERM 1345, AERM 1243 Prerequisite(s): AERM 1314 or AERM 1414
- AERM 1350 Prerequisite(s): (AERM 1203, AERM 1315) or (AERM 1203, AERM 1109)
- AERM 1153 Prerequisite(s): AERM 1203
- AERM 1449, AERM 2333 Prerequisite(s): AERM 1109 or AERM 1315
- AERM 1352 Prerequisite(s): (AERM 1107, AERM 1112, AERM 1203) or (AERM 1315, AERM 1203)

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Aircraft Pilot Training Technology

Description

With aviation experience dating back more than 58 years, TSTC has been a proud trainer of professional pilots throughout the aviation industry. Our students receive a first-class education through hands-on training in the world's most popular training aircraft, along with classroom and one-on-one ground instruction from industry professionals. Students spend most of their time learning by doing as they train to become industry professionals. All Aircraft Pilot Training students must apply to the program after being accepted as TSTC students. The application includes providing evidence of a Class II flight physical and current Class II medical privileges. All new students must complete a Texas Success Initiative evaluation (or equivalent) and any necessary remedial academic courses before registering for classes in this program. Flight costs vary slightly per term and are subject to change due to variables such as fluctuating fuel and actual flight-time costs.

The Aircraft Pilot Training program is a progressive learning program, with each certificate and class built on knowledge from previous certificates and classes. Students must pass each class before moving on to the next level. In order to progress in the program, a student must make an average of 70% or higher in each course. Only a grade of 70 or higher is acceptable for each course.

Grading Scale

A = 90-100

B = 80-89

C = 70 - 79

D = 60 - 69

F = 0-59

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "C" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 (REV 4/24/25) Transfer and Substitution of Credit for additional information.

****Note:** Aircraft Pilot training has a particular acceptance process and may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Aircraft Pilot Training Technology - Aircraft Pilot Training Technology - Airplane AAS

Locations

Waco

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - AIRP1215 - Private Flight (2)
 - AIRP1301 - Air Navigation (3)
 - AIRP1307 - Aviation Meteorology (3)
 - AIRP1417 - Private Pilot Ground School (4)

Semester 2

12 Total Credits



- Complete the following:
 - AIRP1343 - Aerodynamics (3)
 - AIRP1451 - Instrument Ground School (4)
 - AIRP2250 - Instrument Flight (2)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3

12 Total Credits



- Complete all of the following
 - Complete the following:
 - AIRP2355 - Propulsion Systems (3)
 - AIRP1275 - Aviation Safety (2)
 - AIRP1175 - Intermediate Flight (1)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 4

12 Total Credits



- Complete the following:
 - AIRP2357 - Turbine Aircraft Systems Ground School (3)
 - AIRP2337 - Commercial Ground School (3)
 - AIRP2339 - Commercial Flight (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete at least 2 credits from the following:
 - AIRP2236 - Certified Flight Instructor - Flight (2)
 - AIRP2251 - Multiengine Flight (2)
 - Complete at least 3 credits from the following:
 - AIRP1313 - Introduction to Aviation (3)
 - AVIM2337 - Aviation Law (3)
 - Complete the following:
 - AIRP2449 - Instructor Ground School (4)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - AIRP2449 - Instructor Ground School (4)

Pre/Corequisites

- AIRP 1175, AIRP 2250 Prerequisite(s): AIRP 1215
- AIRP 2239 Prerequisite(s): AIRP 2250
- AIRP 2236, AIRP 2251 Prerequisite(s): AIRP 2239

Elective Options

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete 1 General Education Elective as recommended by program
 - Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics (3)
 - ECON2302 - Principles of Microeconomics (3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

Aircraft Pilot Training Technology - Aircraft Pilot Training Technology - Unmanned Aerial Vehicle CER1

Locations

Waco

Modality

Hybrid

Program Requirements

Semester 1

18 Total Credits



- Complete all of the following
 - Complete the following:
 - AIRP1301 - Air Navigation (3)
 - AIRP1307 - Aviation Meteorology (3)
 - AIRP1417 - Private Pilot Ground School (4)
 - AIRP1275 - Aviation Safety (2)
 - AVIM1391 - Special Topics in Aviation Management (3)
 - Complete at least 3 credits from the following:
 - MRKG1301 - Customer Relationship Management (3)
 - AIRP1313 - Introduction to Aviation (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - AVIM1391 - Special Topics in Aviation Management (3)

Aircraft Powerplant Technology

Description

Aircraft Powerplant Technology students learn basic aviation knowledge, shop practices, aircraft engines and electrical, troubleshooting, and overhaul. Graduates from this program can seek positions in engine maintenance, contract maintenance, general aviation operations, and regional and national airline technicians specializing in powerplant accessories, components and reciprocating, and turbine engine technology. For quicker entry into the industry, an Aircraft Powerplant Technology certificate is available.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Aircraft Powerplant Technology - Aviation Maintenance Technology - Powerplant AAS

Locations

Waco
Harlingen
Abilene

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AERM1107 - Aviation Mathematics (1)
 - AERM1109 - Aviation Physics (1)
 - AERM1112 - Aviation Drawings (1)
 - AERM1315 - Aviation Science (3)
 - Complete the following:
 - AERM1203 - Shop Practices (2)
 - AERM1205 - Weight and Balance (2)
 - AERM1208 - Federal Aviation Regulations (2)
 - AERM1210 - Ground Operations (2)
 - AERM1414 - Basic Electricity (4)

Semester 2

16 Total Credits



- Complete the following:
 - AERM1351 - Aircraft Turbine Engine Theory (3)
 - AERM1357 - Fuel Metering and Induction Systems (3)
 - AERM1444 - Aircraft Reciprocating Engines (4)
 - AERM1356 - Aircraft Powerplant Electrical (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3

14 Total Credits



- Complete the following:
 - AERM1240 - Aircraft Propellers (2)
 - AERM2341 - Powerplant and Auxiliary Power Units (3)
 - AERM2351 - Aircraft Turbine Engine Overhaul (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4

15 Total Credits



- Complete all of the following
 - Complete the following:
 - AERM2234 - FAA Review - Powerplant (2)
 - AERM2352 - Aircraft Powerplant Inspection (3)
 - AERM2447 - Aircraft Reciprocating Engine Overhaul (4)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - AERM2234 - FAA Review - Powerplant (2)

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Pre/Corequisites

- AERM 1351, AERM 1357, AERM 1444, AERM 1240, AERM 2341 Prerequisite(s): AERM 1109 or AERM 1315
- AERM 1356 Prerequisite(s): AERM 1314 or AERM 1414
- AERM 2351 Prerequisite(s): AERM 1351
- AERM 2447 Prerequisite(s): AERM 1444

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography(3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete 1 General Education Elective as recommended by program

2026-2027 Catalog & Student Handbook

Aircraft Powerplant Technology - Aviation Maintenance Technology - Powerplant CER2

Locations

Waco
Harlingen
Abilene

Modality

Hybrid

Program Requirements

Semester 1
15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AERM1107 - Aviation Mathematics (1)
 - AERM1109 - Aviation Physics (1)
 - AERM1112 - Aviation Drawings (1)
 - AERM1315 - Aviation Science (3)
 - Complete the following:
 - AERM1203 - Shop Practices (2)
 - AERM1205 - Weight and Balance (2)
 - AERM1208 - Federal Aviation Regulations (2)
 - AERM1210 - Ground Operations (2)
 - AERM1414 - Basic Electricity (4)

Semester 2
13 Total Credits



- Complete the following:
 - AERM1351 - Aircraft Turbine Engine Theory (3)
 - AERM1357 - Fuel Metering and Induction Systems (3)
 - AERM1444 - Aircraft Reciprocating Engines (4)
 - AERM1356 - Aircraft Powerplant Electrical (3)

Semester 3
8 Total Credits



- Complete the following:
 - AERM1240 - Aircraft Propellers (2)
 - AERM2341 - Powerplant and Auxiliary Power Units (3)
 - AERM2351 - Aircraft Turbine Engine Overhaul (3)

Semester 4
9 Total Credits



- Complete the following:
 - AERM2234 - FAA Review - Powerplant (2)
 - AERM2352 - Aircraft Powerplant Inspection (3)
 - AERM2447 - Aircraft Reciprocating Engine Overhaul (4)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - AERM2234 - FAA Review - Powerplant (2)

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Pre/Corequisites

- AERM 1351, AERM 1357, AERM 1444, AERM 1240, AERM 2341 Prerequisite(s): AERM 1109 or AERM 1315
- AERM 1356 Prerequisite(s): AERM 1314 or AERM 1414
- AERM 2351 Prerequisite(s): AERM 1351
- AERM 2447 Prerequisite(s): AERM 1444

Architectural & Civil Drafting Technology

Description

Whether it's as large as a high-rise building or as small as a shed, nothing can be built without first envisioning a plan — a blueprint, sketch or drawing detailing everything a project needs for completion. Drafting is a universal language; it is the common language used in many major industries as a first step to bringing this vision to life. TSTC Architectural/Civil Drafting students prepare for drafting applications in commercial architecture; building structures; mechanical, electrical and plumbing systems for buildings; site work; and many other areas of construction-related drafting. During your educational training at TSTC, you will use the latest in computer software and hardware to gain valuable experience utilizing today's most popular drafting tool — Computer-Aided Drafting, or CAD, systems.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Architectural & Civil Drafting Technology - Architectural & Civil Drafting Technology AAS

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Modality

PBE
Dual Modality

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - ARCE1321 - Architectural Illustration (3)
 - Complete at least 3 credits from the following:
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - SRVY1341 - Land Surveying (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

12 Total Credits



- Complete the following:
 - ARCE1303 - Architectural Materials and Methods of Construction (3)
 - DFTG1317 - Architectural Drafting - Residential (3)
 - DFTG1330 - Civil Drafting 1 (3)
 - MATH1314 - College Algebra (3 SCH version) (3)

Semester 3

12 Total Credits



- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)
 - DFTG2321 - Topographical Drafting (3)
 - ARCE1342 - Codes, Specifications, and Contract Documents (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - ARCE2352 - Mechanical and Electrical Systems (3)
 - ARCE1352 - Structural Drafting (3)
 - DFTG1393 - Special Topics in Civil Drafting Civil Engineering CAD/CADD (3)
 - ACGM3SPH - Gen Ed Speech Elective (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG2312 - Technical Illustration and Presentation (3)
 - DFTG2331 - Adv Techn-Architect Design & Drafting Design and Drafting (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - DFTG1392 - Special Topics in Architectural Drafting and Architectural CAD/CADD (3)
 - DFTG2386 - Internship - Drafting and Design Technology/Technician, General (3)

Degree Plan Credits **60**

2026-2027 Catalog & Student Handbook

Capstone

- Complete the following:
 - DFTG2331 - Adv Techn-Architect Design & Drafting Design and Drafting (3)

Pre/Corequisites

- ARCE 1303,DFTG 1330, DFTG 2386 Prerequisite(s): DFTG 1309
- DFTG 1317 Prerequisite(s): ARCE 1321
- DFTG 2328 Prerequisite(s): DFTG 1317
- DFTG 2321 Prerequisite(s): DFTG 1330
- ARCE 1342 Prerequisite(s): ARCE 1303 (Prerequisite or Corequisite)
- ARCE 2352 Prerequisite(s): DFTG 2328 (Prerequisite or Corequisite)
- ARCE 1352, DFTG 2312, DFTG 2331, DFTG 1392 Prerequisite(s): DFTG 2328
- DFTG 1393 Prerequisite(s): DFTG 2321

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy (3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete at least 1 courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
 - SPCH1315 - Public Speaking (3)
 - SPCH1318 - Interpersonal Communication (3)
 - SPCH1321 - Business & Professional Communication(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

2026-2027 Catalog & Student Handbook

Architectural & Civil Drafting Technology - Architectural & Civil Drafting Technology CER1

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Modality

PBE
Dual Modality

Program Requirements

Semester 1
9 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - ARCE1321 - Architectural Illustration (3)
 - Complete at least 3 credits from the following:
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - SRVY1341 - Land Surveying (3)

Semester 2
9 Total Credits



- Complete the following:
 - ARCE1303 - Architectural Materials and Methods of Construction (3)
 - DFTG1317 - Architectural Drafting - Residential (3)
 - DFTG1330 - Civil Drafting 1 (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - DFTG1317 - Architectural Drafting - Residential (3)

Pre/Corequisites

- ARCE 1303, DFTG 1330 Prerequisite(s): DFTG 1310 or DFTG 1309
- DFTG1317 Prerequisite(s): ARCE 1321

Architectural & Civil Drafting Technology - Architectural & Civil Drafting Technology CER2

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Modality

PBE
Dual Modality

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

9 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - ARCE1321 - Architectural Illustration (3)
 - Complete at least 3 credits from the following:
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - SRVY1341 - Land Surveying (3)

Semester 2

9 Total Credits



- Complete the following:
 - ARCE1303 - Architectural Materials and Methods of Construction (3)
 - DFTG1317 - Architectural Drafting - Residential (3)
 - DFTG1330 - Civil Drafting 1 (3)

Semester 3

9 Total Credits



- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)
 - DFTG2321 - Topographical Drafting (3)
 - ARCE1342 - Codes, Specifications, and Contract Documents (3)

Semester 4

9 Total Credits



- Complete the following:
 - ARCE2352 - Mechanical and Electrical Systems (3)
 - ARCE1352 - Structural Drafting (3)
 - DFTG1393 - Special Topics in Civil Drafting Civil Engineering CAD/CADD (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - ARCE1352 - Structural Drafting (3)

Pre/Corequisites

- ARCE 1303 Prerequisite(s): DFTG 1310 or DFTG 1309
- DFTG 1317 Prerequisite(s): ARCE 1321
- DFTG 1330 Prerequisite(s): DFTG 1310 or DFTG 1309
- DFTG 2328 Prerequisite(s): DFTG 1317
- DFTG 2321 Prerequisite(s): DFTG 1330
- ARCE 1342 Prerequisite(s): ARCE 1303 (Prerequisite or Corequisite)
- ARCE 2352 Prerequisite(s): DFTG 2328 (Prerequisite or Corequisite)
- ARCE 1352 Prerequisite(s): DFTG 2328
- DFTG 1393 Prerequisite(s): DFTG 2321

Architectural Design & Engineering

Description

The Architectural Design & Engineering Graphics Technology program works with designers and engineers to convert their ideas and concepts for new products and designs into accurate drawings that identify size, shape, materials and specifications. These drawings are then used by professionals in manufacturing, consulting and construction to produce the desired product or structure. Designs are created using computer-aided drafting (CAD) equipment. Solid modeling and parametric concepts are introduced and utilized early in the program and throughout the curriculum.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Architectural Design & Engineering - Architectural Design & Engineering Technology - Graphics CER1

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Modality

PBE
Dual Modality

Program Requirements

Semester 1
9 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - Complete at least 3 credits from the following:
 - DFTG1345 - Parametric Modeling and Design (3)
 - ENGR1304 - Engineering Graphics I (3 Sch version) (3)
 - Complete at least 3 credits from the following:
 - SRVY1341 - Land Surveying (3)
 - DFTG1325 - Blueprint Reading and Sketching (3)

Semester 2
9 Total Credits



- Complete the following:
 - ARCE1321 - Architectural Illustration (3)
 - DFTG1333 - Mechanical Drafting (3)
 - DFTG1330 - Civil Drafting 1 (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - DFTG1333 - Mechanical Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1333, DFTG 1330 Prerequisite(s): DFTG 1309 or DFTG 1310

Architectural Design & Engineering - Architectural Design & Engineering Technology AAS

Locations

Online - TSTC Connect
Harlingen
Waco
Marshall
North Texas

2026-2027 Catalog & Student Handbook

Modality

PBE
Dual Modality

Program Requirements

Semester 1
12 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - Complete at least 3 credits from the following:
 - DFTG1345 - Parametric Modeling and Design (3)
 - ENGR1304 - Engineering Graphics I (3 Sch version) (3)
 - Complete at least 3 credits from the following:
 - SRVY1341 - Land Surveying (3)
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - Complete the following:
 - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2
12 Total Credits



- Complete all of the following
 - Complete the following:
 - ARCE1321 - Architectural Illustration (3)
 - DFTG1333 - Mechanical Drafting (3)
 - DFTG1330 - Civil Drafting 1 (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 3
12 Total Credits



- Complete the following:
 - DFTG2302 - Machine Drafting (3)
 - DFTG1317 - Architectural Drafting - Residential (3)
 - DFTG2321 - Topographical Drafting (3)
 - ACGM3SPH - Gen Ed Speech Elective (3)

Semester 4
12 Total Credits



- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)
 - DFTG1393 - Special Topics in Civil Drafting Civil Engineering CAD/CADD (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5
12 Total Credits



- Complete all of the following
 - Complete the following:

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- ARCE1352 - Structural Drafting (3)
- DFTG2357 - Advanced Technologies in Pipe Design and Drafting (3)
- ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
- Complete at least 3 credits from the following:
 - DFTG1392 - Special Topics in Architectural Drafting and Architectural CAD/CADD (3)
 - DFTG1395 - Special Topics in Mechanical Drafting and Mechanical Drafting CAD/CADD (3)
 - DFTG2386 - Internship - Drafting and Design Technology/Technician, General (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - ARCE1352 - Structural Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1333, DFTG 1330, DFTG 2386, DFTG 2357 Prerequisite(s): DFTG 1309 or DFTG 1310
- DFTG 2302 Prerequisite(s): DFTG 1333
- DFTG 1317 Prerequisite(s): ARCE 1321
- DFTG 2321 Prerequisite(s): DFTG 1330
- DFTG 2328 Prerequisite(s): DFTG 1317
- DFTG 2335 Prerequisite(s): DFTG 2302
- DFTG 1393 Prerequisite(s): DFTG 2321
- ARCE 1352, DFTG 1392 Prerequisite(s): DFTG 2328
- DFTG 1395 Prerequisite(s): DFTG 2335

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Elective Options

- Complete at least 1 courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
 - SPCH1315 - Public Speaking (3)
 - SPCH1318 - Interpersonal Communication (3)
 - SPCH1321 - Business & Professional Communication(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

Architectural Design & Engineering - Architectural Design & Engineering Technology CER2

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Modality

PBE
Dual Modality

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

9 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - Complete at least 3 credits from the following:
 - DFTG1345 - Parametric Modeling and Design (3)
 - ENGR1304 - Engineering Graphics I (3 Sch version) (3)
 - Complete at least 3 credits from the following:
 - SRVY1341 - Land Surveying (3)
 - DFTG1325 - Blueprint Reading and Sketching (3)

Semester 2

9 Total Credits



- Complete the following:
 - ARCE1321 - Architectural Illustration (3)
 - DFTG1333 - Mechanical Drafting (3)
 - DFTG1330 - Civil Drafting 1 (3)

Semester 3

9 Total Credits



- Complete the following:
 - DFTG2302 - Machine Drafting (3)
 - DFTG1317 - Architectural Drafting - Residential (3)
 - DFTG2321 - Topographical Drafting (3)

Semester 4

9 Total Credits



- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)
 - DFTG1393 - Special Topics in Civil Drafting Civil Engineering CAD/CADD (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1333, DFTG 1330 Prerequisite(s): DFTG 1309 or DFTG 1310
- DFTG 2302 Prerequisite(s): DFTG 1333
- DFTG 1317 Prerequisite(s): ARCE 1321
- DFTG 2321 Prerequisite(s): DFTG 1330
- DFTG 2328 Prerequisite(s): DFTG 1317
- DFTG 2335 Prerequisite(s): DFTG 2302
- DFTG 1393 Prerequisite(s): DFTG 2321

Associate Degree in Nursing

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Description

Registered nurses (RNs) make up the largest health care occupation in the United States. Statistics show that there are almost 3 million jobs available and over 100,000 vacant positions. Nurses are a critical and essential resource in patient care. They consider the patient as a “whole,” which includes emotional, mental and physical needs. They work to restore health and wellness, prevent disease, provide and coordinate patient care, and educate patients and the public about various health conditions.

RNs can work in hospitals, physicians’ offices, home health care services, nursing care facilities, correctional facilities, schools, the military, and more. TSTC’s nursing students participate in an active learning environment, including simulation learning labs that are led by instructors with multiple backgrounds.

The program includes three semesters of nursing-related courses and clinicals. The entire program requires 60 credits, taking approximately three years to complete from start to finish (including one full year in the Vocational Nursing program).

The LVN to ADN transition program requires all prerequisite courses to be completed prior to the first official start of RNSG courses. Prerequisites cannot be taken concurrently while in the nursing program. Students may apply to the program while finishing prerequisites for contingency acceptance; however, full acceptance is not granted until final grades of any prerequisite courses in progress have been evaluated.

Science prerequisites must not be older than 10 years. If A&P I or II are older than 10 years: An LVN that is currently working with direct patient care, and has been for a minimum of 5 years, is eligible to test out of the A&P time limit restrictions. The student may register and take the ATI A&P exam and must make at least a 70. This exam can only be taken ONCE per application period.

- If this score is MET, the student will not have to retake the expired A&P courses.
- If this score is NOT met, the student will need to retake the A&P courses that are expired or wait to retake the HESI A&P exam in the next application period.
- This must be completed prior to the application period due date. Score must be submitted with the application.

Grades below a C are transferable into TSTC but are not accepted for application to the nursing program. All prerequisites for the nursing program must be a C or better.

Health science students should be aware that many of the facilities where they will receive clinical training require each student to be covered by various forms of insurance. The required insurance could be health, accident, needlestick, and liability insurance, but many facilities do not require all four kinds. Students can purchase accident, needlestick and liability, if needed, through TSTC; however, TSTC does not provide the ability to purchase health insurance. TSTC may request proof of coverage prior to enrollment or prior to placement at a clinical site, and clinical site personnel may ask for proof of coverage at any time. Students may be denied access to clinical experience if not covered by the required insurance. Failure of students to obtain required insurance will prevent students from attending some facilities, which will probably prevent students from completing the program or cause them to fail the program. Should a student be denied clinical experience due to lack of insurance coverage, TSTC cannot adjust grades or credits or make any other adjustments.

The TSTC LVN-RN Program assigns grades based on student performance for each course completed using the following grading scale:

GRADE	POINTS
A	90-100
B	80-89
C	70-79
D	60-69
F	59 and Below

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While in the nursing program, a final course grade of B or better is required for all nursing courses. Final course grades of C or below are considered failing grades.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Associate Degree in Nursing - Nursing AAS

Locations

Harlingen
Sweetwater

Modality

Hybrid

Program Requirements

Semester 1
13 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)
 - Complete the following:
 - ENGL1301 - Composition I (3)
 - Complete the following:
 - PSYC2314 - Lifespan Growth & Development (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 2
11 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - BIOL2402 - Anatomy & Physiology II (lecture + lab) (4)
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)
 - Complete at least 4 credits from the following:
 - BIOL2420 - Microbiology for Non-Science Majors (lecture + lab) (4)
 - BIOL2320 - Microbiology for Non-Science Majors (lecture) (3)
 - BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab) (1)
 - Complete the following:
 - PSYC2301 - General Psychology (3)

Semester 3
12 Total Credits



- Complete the following:
 - RNSG1210 - Introduction to Community-Based Nursing (2)
 - RNSG1227 - Transition to Professional Nursing (2)
 - RNSG1261 - Clinical - Registered Nursing/Registered Nurse (2)

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- RNSG1300 - Health Assessment Across the Lifespan (3)
- RNSG1301 - Pharmacology (3)

Semester 4

12 Total Credits



- Complete the following:
 - RNSG1343 - Complex Concepts of Adult Health (3)
 - RNSG1412 - Nursing Care of the Childbearing and Childrearing Family (4)
 - RNSG2162 - Clinical - Registered Nursing/Registered Nurse (1)
 - RNSG2213 - Mental Health Nursing (2)
 - RNSG2262 - Clinical - Registered Nursing/Registered Nurse (2)

Semester 5

12 Total Credits



- Complete the following:
 - RNSG1463 - Clinical - Registered Nursing/Registered Nurse (4)
 - RNSG2221 - Professional Nursing: Leadership and Management (2)
 - RNSG2230 - Professional Nursing Review and Licensure Preparation (2)
 - RNSG2432 - Enhanced Concepts of Adult Health (4)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - RNSG2230 - Professional Nursing Review and Licensure Preparation (2)

Pre/Corequisites

- RNSG 1227 Corequisite(s): RNSG 1261
- RNSG 1261 Corequisite(s): RNSG 1227
- RNSG 1343 Corequisite(s): RNSG 2162
- RNSG 1412, RNSG 2213 Corequisite(s): RNSG 2262
- RNSG 2162 Corequisite(s): RNSG 1343
- RNSG 2262 Corequisite(s): RNSG 1412; RNSG 2213
- RNSG 1463 Corequisite(s): RNSG 2432
- RNSG 2432 Corequisite(s): RNSG 1463

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

Auto Collision & Management Technology

Description

According to autonews.com, auto collision repair is a \$35 billion-a-year business in the United States. That is why the auto body industry is a great career choice for those seeking a relatively stable job with above-average wages. At TSTC, you will get the crucial hands-on experience that can make you irresistible to employers. The Auto Collision and Management Technology program offers a specialization in auto body refinishing, collision repair, and sheet metal fabrication. For quicker entry into the industry, certificate programs are available. Advanced certificate programs are also available.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Auto Collision & Management Technology - Auto Collision & Management Technology - Refinishing AAS

Locations

Waco
Harlingen
Fort Bend County

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - ABDR1203 - Vehicle Design and Structural Analysis (2)
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - ENGL1301 - Composition I (3)

Semester 2

18 Total Credits



- Complete the following:
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR1431 - Basic Refinishing (4)
 - ABDR1458 - Intermediate Refinishing (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 3

17 Total Credits



- Complete the following:
 - ABDR2255 - Collision Repair Estimating (2)
 - ABDR2371 - Refinishing Process I (3)
 - ABDR2449 - Advanced Refinishing (4)
 - ABDR2551 - Specialized Refinishing Techniques (5)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

12 Total Credits



- Complete all of the following
 - Complete at least 2 credits from the following:
 - ABDR2270 - Advanced Application Processes of Refinishing (2)
 - ABDR2281 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (2)
 - Complete the following:
 - ABDR2357 - Collision Repair Shop Management (3)
 - ABDR2453 - Color Analysis and Paint Matching (4)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete at least 2 credits from the following:
 - ABDR2270 - Advanced Application Processes of Refinishing (2)
 - ABDR2281 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (2)
- Complete the following:
 - ABDR2453 - Color Analysis and Paint Matching (4)

Pre/Corequisites

- ABDR 1419, ABDR 1431, ABDR 1458 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371
- ABDR 2255 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349
- ABDR 2371, ABDR 2449, ABDR 2551 Prerequisite(s): ABDR 1458, ABDR 1431
- ABDR 2270, ABDR 2281 Prerequisite(s): ABDR 2449, ABDR 2551
- ABDR 2357 Prerequisite(s): ABDR 2255
- ABDR 2453 Prerequisite(s): ABDR 2255, ABDR 2371, ABDR 2449, ABDR 2551

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Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

Auto Collision & Management Technology - Auto Collision & Management Technology - Refinishing CER1

Locations

Waco
Harlingen
Fort Bend County

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - ABDR1203 - Vehicle Design and Structural Analysis (2)
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - TECM1303 - Technical Calculations (3)

Semester 2
17 Total Credits



- Complete the following:
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR1431 - Basic Refinishing (4)
 - ABDR1458 - Intermediate Refinishing (4)
 - POFT1301 - Business English (3)
 - ABDR2255 - Collision Repair Estimating (2)

Degree Plan Credits **30**

Capstone

- Complete the following:
 - ABDR1458 - Intermediate Refinishing (4)

Pre/Corequisites

- ABDR 1419 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371
- ABDR 2255 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349

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Auto Collision & Management Technology - Auto Collision & Management Technology - Refinishing CER2

Locations

Waco
Harlingen
Fort Bend County

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - ABDR1203 - Vehicle Design and Structural Analysis (2)
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - TECM1303 - Technical Calculations (3)

Semester 2
15 Total Credits



- Complete the following:
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR1431 - Basic Refinishing (4)
 - ABDR1458 - Intermediate Refinishing (4)
 - POFT1301 - Business English (3)

Semester 3
14 Total Credits



- Complete the following:
 - ABDR2255 - Collision Repair Estimating (2)
 - ABDR2371 - Refinishing Process I (3)
 - ABDR2449 - Advanced Refinishing (4)
 - ABDR2551 - Specialized Refinishing Techniques (5)

Degree Plan Credits **42**

Capstone

- Complete the following:
 - ABDR2449 - Advanced Refinishing (4)

Pre/Corequisites

- ABDR 1419, ABDR 1431, ABDR 1458 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371
- ABDR 2255 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349
- ABDR 2371, ABDR 2449, ABDR 2551 Prerequisite(s): ABDR 1458, ABDR 1431

Auto Collision & Management Technology - Auto Collision & Management Technology - Repair CO-OP AAS

2026-2027 Catalog & Student Handbook

Locations

Waco

Modality

Hybrid
PBE

Program Requirements

Semester 1 First Session

11 Total Credits



- Complete the following:
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - ENGL1301 - Composition I (3)

Semester 1 Second Session

2 Total Credits



- Complete the following:
 - ABDR1280 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (2)

Semester 2 First Session

12 Total Credits



- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)
 - ABDR2255 - Collision Repair Estimating (2)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 2 Second Session

3 Total Credits



- Complete the following:
 - ABDR2380 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (3)

Semester 3 First Session

14 Total Credits



- Complete the following:
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR2447 - Advanced Collision Repair Welding (4)
 - ACGM3GED - Gen Ed Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 3 Second Session

3 Total Credits



- Complete the following:
 - ABDR2381 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (3)

Semester 4 First Session

4 Total Credits



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- Complete the following:
 - ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (4)

Semester 4 Second Session

11 Total Credits



- Complete the following:
 - ABDR2359 - Structural Sectioning (3)
 - ABDR2502 - Auto Body Mechanical and Electrical Service (5)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (4)
 - ABDR2359 - Structural Sectioning (3)

Pre/Corequisites

- ABDR 1307, ABDR 2255, ABDR 2435 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349
- ABDR 1419 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371
- ABDR 2447 Prerequisite(s): ABDR 1307
- ABDR 2359, ABDR 2502 Prerequisite(s): ABDR 1307, ABDR 1419, ABDR 2435

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Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete 1 General Education Elective as recommended by program
 - Complete at least courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

Auto Collision & Management Technology - Auto Collision & Management Technology - Repair AAS

2026-2027 Catalog & Student Handbook

Locations

Waco
Harlingen
Fort Bend County

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - ABDR1203 - Vehicle Design and Structural Analysis (2)
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - ENGL1301 - Composition I (3)

Semester 2
15 Total Credits



- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)
 - ABDR2255 - Collision Repair Estimating (2)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 3
17 Total Credits



- Complete the following:
 - ABDR1323 - Collision Repair Steering and Suspension (3)
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR2447 - Advanced Collision Repair Welding (4)
 - ACGM3GED - Gen Ed Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
15 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - ABDR1442 - Structural Analysis and Damage Repair II (4)
 - ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (4)
 - Complete the following:
 - ABDR2357 - Collision Repair Shop Management (3)
 - ABDR2359 - Structural Sectioning (3)
 - ABDR2502 - Auto Body Mechanical and Electrical Service (5)

Degree Plan Credits **60**

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Capstone

- Complete 1 of the following
 - Complete the following:
 - ABDR1442 - Structural Analysis and Damage Repair II (4)
 - Complete the following:
 - ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (4)
- Complete the following:
 - ABDR2359 - Structural Sectioning (3)
 - ABDR2502 - Auto Body Mechanical and Electrical Service (5)

Pre/Corequisites

- ABDR 1307, ABDR 2255, ABDR 2435 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349
- ABDR 1323 Prerequisite(s): ABDR 2435
- ABDR 1419 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371
- ABDR 2447 Prerequisite(s): ABDR 1307
- ABDR 1442 Prerequisite(s): ABDR 1323, ABDR 1419, ABDR 2435
- ABDR 2357 Prerequisite(s): ABDR 2255
- ABDR 2359, ABDR 2502 Prerequisite(s): ABDR 1307, ABDR 1419, ABDR 2435

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Elective Options

- Complete at least courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography(3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete 1 General Education Elective as recommended by program
 - Complete at least courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

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Auto Collision & Management Technology - Auto Collision & Management Technology - Repair CER1

Locations

Waco
Harlingen
Fort Bend County

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - ABDR1203 - Vehicle Design and Structural Analysis (2)
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - TECM1303 - Technical Calculations (3)

Semester 2
12 Total Credits



- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)
 - ABDR1359 - Sheet Metal Fabrication I (3)
 - ABDR2255 - Collision Repair Estimating (2)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

Semester 3
10 Total Credits



- Complete the following:
 - ABDR1323 - Collision Repair Steering and Suspension (3)
 - ABDR1419 - Basic Metal Repair (4)
 - POFT1301 - Business English (3)

Degree Plan Credits **35**

Capstone

- Complete the following:
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

Pre/Corequisites

- ABDR 1307, ABDR 2255, ABDR 2435 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349
- ABDR 1359 Prerequisite(s): ABDR 1215
- ABDR 1323 Prerequisite(s): ABDR 2435
- ABDR 1419 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371

Auto Collision & Management Technology - Auto Collision & Management Technology - Repair CER2

2026-2027 Catalog & Student Handbook

Locations

Waco
Harlingen
Fort Bend County

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - ABDR1203 - Vehicle Design and Structural Analysis (2)
 - ABDR1215 - Vehicle Trim and Hardware (2)
 - ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair (3)
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)
 - TECM1303 - Technical Calculations (3)

Semester 2
12 Total Credits



- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)
 - ABDR1359 - Sheet Metal Fabrication I (3)
 - ABDR2255 - Collision Repair Estimating (2)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

Semester 3
10 Total Credits



- Complete the following:
 - ABDR1323 - Collision Repair Steering and Suspension (3)
 - ABDR1419 - Basic Metal Repair (4)
 - POFT1301 - Business English (3)

Semester 4
12 Total Credits



- Complete all of the following
 - Complete the following:
 - ABDR2359 - Structural Sectioning (3)
 - ABDR2502 - Auto Body Mechanical and Electrical Service (5)
 - Complete at least 4 credits from the following:
 - ABDR1442 - Structural Analysis and Damage Repair II (4)
 - ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (4)

Degree Plan Credits **47**

Capstone

- Complete 1 of the following
 - Complete the following:
 - ABDR1442 - Structural Analysis and Damage Repair II (4)
 - Complete the following:
 - ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician (4)
- Complete the following:
 - ABDR2359 - Structural Sectioning (3)

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Pre/Corequisites

- ABDR 1307, ABDR 2255, ABDR 2435 Prerequisite(s): ABDR 1203 or ABDR 1280, ABDR 1215, ABDR 1349
- ABDR 1359 Prerequisite(s): ABDR 1215
- ABDR 1323 Prerequisite(s): ABDR 2435
- ABDR 1419 Prerequisite(s): ABDR 1215, ABDR 1349, ABDR 1371
- ABDR 1442 Prerequisite(s): ABDR 1323, ABDR 1419, ABDR 2435
- ABDR 2359, ABDR 2502 Prerequisite(s): ABDR 1307, ABDR 1419, ABDR 2435

Auto Collision & Management Technology - Auto Collision & Management Technology - Tesla ATC

Locations

Waco

Modality

Hybrid

Program Requirements

- Complete the following:
 - AUMT1471 - Introduction and Theory of Tesla Vehicles (4)
 - ABDR1472 - Cosmetic Repair and Conditioning (4)
 - ABDR1473 - Tesla Specialized Welding (4)
 - ABDR1474 - Tesla Structural Repair (4)

Degree Plan Credits **16**

Automation & Controls Technology

Description

Automation and Controls Technology students learn how to automate the industrial world. Be on the cutting edge of the automation technologies that companies are using to upgrade their systems. Students will learn how to troubleshoot, calibrate, implement, service, repair and replace analog and electromechanical instruments, putting the automation basics to work. Add in computerized control, robotic control, robotic assembly devices and computer-controlled manufacturing systems like programmable logic controllers and human machine interface, and students will know how to automate and control most industrial processes. Students will receive in-depth classroom instruction followed by real-world, hands-on training in labs to gain the solid foundation necessary in this high-tech field. Training begins with basic electrical concepts and motors and motor control application. Students then advance to solid state electronic principles, electrical codes, measurements, calibration, and automation control schemes. Enhance your automation skills and knowledge with extensive, industry-driven, hands-on exercises in PLC concepts, design, maintenance and troubleshooting on state-of-the-art lab equipment that includes robotics interfacing. Be a part of our automation nation.

Money-Back Guarantee

All TSTC students participating in the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1100 Foundations for Career Success. Satisfactory grade completion of HIRE 1100 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Automotive Technology

Description

The Automotive Technology program at TSTC features approximately \$3 million worth of the latest equipment and laboratories. The program is accredited by Automotive Service Excellence Program Accreditation (ASE), and instructors are certified by ASE and bring years of industry experience to the classroom. Students receive intensive, hands-on training and spend more than 60% of their time in labs, learning by doing. The curriculum is guided by an advisory board of industry leaders, helping to ensure that the training that students receive is on target with what the industry needs.

Automotive Technology offers specializations in Chrysler and Tesla START. For quicker entry into the field, certificates and an occupational skills award are available.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Automotive Technology - Automotive Technology - Chrysler CER2

Locations

Waco

Modality

Hybrid
PBE

Program Requirements

Semester 1 First Session
9 Total Credits



- Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)
 - AUMT1307 - Automotive Electrical Systems (3)
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)

Semester 1 Second Session
1 Total Credits



- Complete the following:
 - AUMT1166 - Practicum (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician (1)

Semester 2 First Session
10 Total Credits



- Complete the following:
 - AUMT1310 - Automotive Brake Systems (3)
 - AUMT1416 - Automotive Suspension and Steering Systems (4)
 - AUMT2337 - Automotive Electronics (3)

Semester 2 Second Session
1 Total Credits



- Complete the following:
 - AUMT1167 - Practicum (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician (1)

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Semester 3 First Session

1 Total Credits



- Complete the following:
 - AUMT2188 - Internship - Automobile/Automotive Mechanics Technology/Technician (1)

Semester 3 Second Session

7 Total Credits



- Complete the following:
 - AUMT1345 - Automotive Climate Control Systems (3)
 - AUMT1419 - Automotive Engine Repair (4)

Semester 4 First Session

1 Total Credits



- Complete the following:
 - AUMT2189 - Internship - Automobile/Automotive Mechanics Technology/Technician (1)

Semester 4 Second Session

8 Total Credits



- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - AUMT2434 - Automotive Engine Performance Analysis II (4)

Semester 5 First Session

3 Total Credits



- Complete the following:
 - AUMT1380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician (3)

Semester 5 Second Session

8 Total Credits



- Complete the following:
 - AUMT2413 - Automotive Drive Train and Axles (4)
 - AUMT2425 - Automatic Transmission and Transaxle (4)

Degree Plan Credits **49**

Capstone

- Complete the following:
 - AUMT2337 - Automotive Electronics (3)
 - AUMT2434 - Automotive Engine Performance Analysis II (4)
 - AUMT2425 - Automatic Transmission and Transaxle (4)

Pre/Corequisites

- AUMT 2321 Prerequisite(s): AUMT 1307 (Prerequisite or Corequisite)
- AUMT 2337 Prerequisite(s): AUMT 2321
- AUMT 1345 Prerequisite(s): AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305, AUMT 1307
- AUMT 2189, AUMT 2434, AUMT 2425 Prerequisite(s): AUMT 2417 (Prerequisite or Corequisite), AUMT 2321
- AUMT 2417 Prerequisite(s): AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)
- AUMT 1380 Prerequisite(s): AUMT 1310 (Prerequisite or Corequisite)

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Automotive Technology - Automotive Technology - Maintenance & Light Repair CER1

Locations

Harlingen
Sweetwater
Fort Bend County
Waco

Modality

Hybrid
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)
 - AUMT1307 - Automotive Electrical Systems (3)
 - AUMT1310 - Automotive Brake Systems (3)

Semester 2
11 Total Credits



- Complete the following:
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
 - AUMT1416 - Automotive Suspension and Steering Systems (4)
 - AUMT1419 - Automotive Engine Repair (4)

Semester 3
10 Total Credits



- Complete the following:
 - AUMT1345 - Automotive Climate Control Systems (3)
 - AUMT2337 - Automotive Electronics (3)
 - AUMT2417 - Automotive Engine Performance Analysis I (4)

Degree Plan Credits **30**

Capstone

- Complete the following:
 - AUMT2337 - Automotive Electronics (3)

Pre/Corequisites

- AUMT 2321 Prerequisite(s): AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305, AUMT 1307
- AUMT 1345 Prerequisite(s): AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 2337 Prerequisite(s): AUMT 2321
- AUMT 2417 Prerequisite(s): AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)

Automotive Technology - Automotive Technology - Tesla START ATC

Locations

Fort Bend County
Waco

Modality

Hybrid

Program Requirements

Semester 1
16 Total Credits



- Complete the following:
 - AUMT1471 - Introduction and Theory of Tesla Vehicles (4)
 - AUMT1472 - Automotive Electrical, Chassis, Driver Assist Systems Theory (4)
 - AUMT1473 - Automotive Electronics Theory (4)
 - AUMT1474 - Infotainment Systems and Service Center Skills (4)

Degree Plan Credits **16**

Capstone

- Complete the following:
 - AUMT1473 - Automotive Electronics Theory (4)

Automotive Technology - Automotive Technology AAS

Locations

Waco
Harlingen
Sweetwater
Fort Bend County

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)
 - AUMT1307 - Automotive Electrical Systems (3)
 - AUMT1310 - Automotive Brake Systems (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

17 Total Credits



- Complete the following:
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
 - AUMT1416 - Automotive Suspension and Steering Systems (4)
 - AUMT1419 - Automotive Engine Repair (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 3

16 Total Credits



- Complete the following:
 - AUMT1345 - Automotive Climate Control Systems (3)
 - AUMT2337 - Automotive Electronics (3)
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - ACGM3GED - Gen Ed Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AUMT2302 - Automotive Compression Ignition Engines & Fuel Systems (3)
 - AUMT2307 - Hybrid Systems Diagnostics (3)
 - AUMT2380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician (3)
 - Complete the following:
 - AUMT2378 - Alternative Energy and Propulsion Systems (3)
 - AUMT2575 - Transmissions and Drive Trains (5)
 - AUMT2434 - Automotive Engine Performance Analysis II (4)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - AUMT2378 - Alternative Energy and Propulsion Systems (3)
 - AUMT2575 - Transmissions and Drive Trains (5)
 - AUMT2434 - Automotive Engine Performance Analysis II (4)

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Pre/Corequisites

- AUMT 2321 Prerequisite(s): AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305, AUMT 1307
- AUMT 1345 Prerequisite(s): AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 2337 Prerequisite(s): AUMT 2321
- AUMT 2417 Prerequisite(s): AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)
- AUMT 2302 Prerequisite(s): AUMT 2417, AUMT 1419
- AUMT 2307 Prerequisite(s): AUMT 2417, AUMT 2321
- AUMT 2380 Prerequisite(s): AUMT 2413, AUMT 2417, AUMT 2321
- AUMT 2378, AUMT 2575 Prerequisite(s): AUMT 2337 (Prerequisite or Corequisite)
- AUMT 2434 Prerequisite(s): AUMT 2417 (Prerequisite or Corequisite), AUMT 2321

2026-2027 Catalog & Student Handbook

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography(3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete 1 General Education Elective as recommended by program.
 - Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

Automotive Technology - Automotive Technology CER2

2026-2027 Catalog & Student Handbook

Locations

Waco
Harlingen
Sweetwater
Fort Bend County

Modality

Hybrid
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)
 - AUMT1307 - Automotive Electrical Systems (3)
 - AUMT1310 - Automotive Brake Systems (3)

Semester 2
11 Total Credits



- Complete the following:
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
 - AUMT1416 - Automotive Suspension and Steering Systems (4)
 - AUMT1419 - Automotive Engine Repair (4)

Semester 3
10 Total Credits



- Complete the following:
 - AUMT1345 - Automotive Climate Control Systems (3)
 - AUMT2337 - Automotive Electronics (3)
 - AUMT2417 - Automotive Engine Performance Analysis I (4)

Semester 4
15 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AUMT2302 - Automotive Compression Ignition Engines & Fuel Systems (3)
 - AUMT2307 - Hybrid Systems Diagnostics (3)
 - AUMT2380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician (3)
 - Complete the following:
 - AUMT2378 - Alternative Energy and Propulsion Systems (3)
 - AUMT2575 - Transmissions and Drive Trains (5)
 - AUMT2434 - Automotive Engine Performance Analysis II (4)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - AUMT2575 - Transmissions and Drive Trains (5)
 - AUMT2378 - Alternative Energy and Propulsion Systems (3)
 - AUMT2434 - Automotive Engine Performance Analysis II (4)

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Pre/Corequisites

- AUMT 2321 Prerequisite(s): AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305, AUMT 1307
- AUMT 1345 Prerequisite(s): AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 2337 Prerequisite(s): AUMT 2321
- AUMT 2417 Prerequisite(s): AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)
- AUMT 2302 Prerequisite(s): AUMT 2417, AUMT 1419
- AUMT 2307 Prerequisite(s): AUMT 2417, AUMT 2321
- AUMT 2380 Prerequisite(s): AUMT 2413, AUMT 2417, AUMT 2321
- AUMT 2378, AUMT 2575 Prerequisite(s): AUMT 2337 (Prerequisite or Corequisite)
- AUMT 2434 Prerequisite(s): AUMT 2417 (Prerequisite or Corequisite), AUMT 2321

Avionics Technology

Description

Avionics is one of the most exciting and challenging careers in the aviation industry. Avionics technicians are responsible for installing, maintaining and repairing navigational and communication radios, transponders, digital audio systems, flight management computers, and aircraft autopilot systems on all sizes of aircraft. TSTC's Avionics program helps prepare students for the Federal Communication Commission's General Radio-Telephone Operator's License (FCC GROL) and the Aircraft Electronic Technician certification from the National Center for Aerospace and Transportation Technologies (NCATT AET). The curriculum includes college-transferable courses in science, mathematics and English required for the Associate of Applied Science degree, which prepares you to meet the expanding responsibilities of today's avionics technician.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Avionics Technology - Avionics Technology - Installation Technician CER1

Locations

Waco

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

9 Total Credits



- Complete the following:
 - AVNC1303 - Introduction to Aviation Electronic Systems (3)
 - AVNC1343 - Aviation Electrical and Electronic Systems Installation (3)
 - CETT1302 - Electricity Principles (3)

Semester 2

9 Total Credits



- Complete the following:
 - AVNC1353 - Operational Testing of Aviation Electronic Systems (3)
 - AVNC2308 - Aviation Electrical and Electronics Systems Installation II (3)
 - CETT1325 - Digital Fundamentals (3)

Semester 3

12 Total Credits



- Complete the following:
 - AVNC1306 - FAA Regulations for Avionics Certified Repair Station (3)
 - AVNC1391 - Installation & Operational Testing of Avionics & Pitot-Static Systems (3)
 - CSIR2301 - Communication Electronics Components (3)
 - CSIR1355 - Industry Certifications (3)

Degree Plan Credits **30**

Capstone

- Complete the following:
 - AVNC1391 - Installation & Operational Testing of Avionics & Pitot-Static Systems (3)

Pre/Corequisites

- CETT 1325 Prerequisite(s): CETT 1302 or CETT 1305 (Prerequisite or Corequisite)
- CSIR 1355 Prerequisite(s): IEIR 1371 or CETT 1302

Avionics Technology - Avionics Technology AAS

Locations

Waco

Modality

Hybrid

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Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - AVNC1303 - Introduction to Aviation Electronic Systems (3)
 - AVNC1343 - Aviation Electrical and Electronic Systems Installation (3)
 - CETT1302 - Electricity Principles (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - AVNC1353 - Operational Testing of Aviation Electronic Systems (3)
 - AVNC2308 - Aviation Electrical and Electronics Systems Installation II (3)
 - CETT1325 - Digital Fundamentals (3)
 - Complete at least 3 credits from the following:
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)
 - MATH1314 - College Algebra (3 SCH version) (3)
 - MATH1316 - Plane Trigonometry (3)

Semester 3

12 Total Credits



- Complete the following:
 - AVNC1306 - FAA Regulations for Avionics Certified Repair Station (3)
 - AVNC1391 - Installation & Operational Testing of Avionics & Pitot-Static Systems (3)
 - CSIR2301 - Communication Electronics Components (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - AVNC2304 - Foundations in Avionics Equipment Component Level Repairs (3)
 - AVNC2357 - Aviation Communication Component Level Repair (3)
 - CSIR1355 - Industry Certifications (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5

12 Total Credits



- Complete the following:
 - AVNC2345 - Aviation Navigational Equipment Component Level Repair (3)
 - AVNC2350 - Aviation Pulsed RF Equipment Component Level Repair (3)
 - AVNC2355 - Advanced Aviation Electronics Troubleshooting (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - AVNC2355 - Advanced Aviation Electronics Troubleshooting (3)

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Pre/Corequisites

- CETT 1325 Prerequisite(s): CETT 1302 or CETT 1305 (Prerequisite or Corequisite)
- CSIR 2301, CSIR 1355 Prerequisite(s): IEIR 1371 or CETT 1302

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete 1 General Education Elective as recommended by program

Biomedical Equipment Technology

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Description

BET.AAS: First-rate equipment, experienced staff and an advisory board that comprises top industry names are just a few of the benefits available at TSTC. Biomedical equipment technicians work on equipment such as defibrillators, heart monitors, x-ray equipment, infusion pumps and patient monitoring systems, so the industry needs sharp, professional technicians who can inspect, calibrate, maintain, troubleshoot and repair this critical medical equipment. Students in the BET.AAS program gain hands-on experience working with everything from the simplest suction pump to sophisticated laboratory equipment, cardiac monitors and x-ray systems. Completion of BIOM 2388, Internship, is required for graduation.

BET.MIT.AAS: The Medical Imaging Systems Technology program prepares student to inspect, calibrate, maintain, troubleshoot and repair diagnostic equipment, including x-ray systems, CT scanners, Ultrasound units and mammography equipment. The program shares its core foundation with the Biomedical Equipment Technology degree, so students also develop fundamental biomedical equipment skills, including electronics, instrumentation, and equipment safety, before specializing in imaging modalities. Coursework includes classroom instruction on the imaging systems found in hospitals, imaging centers and diagnostic clinics. Completion of BIOM 2389, Internship, is required for graduation.

Grading Scale:

Grade A - 90-100

Grade B - 80-89

Grade C - 70-79

Grade D - 60-69

Grade F - Below 60

Student must obtain a Grade of "C" or higher to pass classes taken while in the program.

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information. **Note: Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Biomedical Equipment Technology - Biomedical Equipment Technology - Medical Imaging AAS

Locations

Waco

Modality

Hybrid

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - BIOM1101 - Biomedical Equipment Technology (1)
 - BIOM1270 - Shop Skills for Biomedical Equipment Technicians (2)
 - BIOM1373 - Medical Software and Hardware (3)
 - CETT1303 - DC Circuits (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 2

15 Total Credits



- Complete all of the following
 - Complete the following:
 - BIOM1309 - Applied Biomedical Equipment Technology (3)
 - Complete at least 3 credits from the following:
 - BIOM1315 - Medical Equipment Networks (3)
 - ITNW1325 - Fundamentals of Networking Technologies (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - ACGM3NSC - Gen Ed Natural Science Elective (3)

Semester 3

15 Total Credits



- Complete the following:
 - BIOM1341 - Medical Circuits/Troubleshooting (3)
 - BIOM2301 - Safety in Health Care Facilities (3)
 - BIOM2319 - Fundamentals of X-Ray and Medical Imaging Systems (3)
 - CETT1325 - Digital Fundamentals (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - BIOM1350 - Diagnostic Ultrasound Imaging System (3)
 - BIOM2333 - Digital Radiography (3)
 - BIOM2345 - Advanced Imaging Systems (3)
 - BIOM2347 - RF/X-Ray System (3)

Semester 5

6 Total Credits



- Complete the following:
 - BIOM2389 - Internship-Biomedical Engineering Technician (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - BIOM2389 - Internship-Biomedical Engineering Technician (3)

Pre/Corequisites

- BIOM 1315 Prerequisite(s): BIOM 1373
- CETT 1305 Prerequisite(s): CETT 1303
- BIOM 1341, BIOM 2301, BIOM 1350, BIOM 2319 Prerequisite(s): CETT 1303, CETT 1305
- CETT 1325 Prerequisite(s): CETT 1302 or CETT 1305 (Prerequisite or Corequisite)
- BIOM 2333, BIOM 2345, BIOM 2347 Prerequisite(s): BIOM 2319

Elective Options

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete at least 1 courses from the following:



Natural Science Elective

- BIOL1106 - Biology for Science Majors Laboratory I (lab)(1)
- BIOL1107 - Biology for Science Majors II Lab(1)
- BIOL1108 - Biology Non-Science Majors Laboratory I(1)
- BIOL1109 - Biology for Non-Science Majors II Lab(1)
- BIOL1113 - General Zoology (lab)(1)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL1313 - General Zoology (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL2101 - Anatomy & Physiology I (lab)(1)
- BIOL2102 - Anatomy & Physiology II (lab)(1)
- BIOL2116 - Genetics (lab)(1)
- BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab)(1)
- BIOL2121 - Microbiology for Science Majors Laboratory(1)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2316 - Genetics (lecture)(3)
- BIOL2320 - Microbiology for Non-Science Majors (lecture)(3)
- BIOL2321 - Microbiology for Science Majors(3)
- BIOL2401 - Anatomy & Physiology I (lecture + lab)(4)
- BIOL2402 - Anatomy & Physiology II (lecture + lab)(4)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- BIOL2416 - Genetics (4)
- BIOL2420 - Microbiology for Non-Science Majors (lecture + lab)(4)
- CHEM1105 - Introductory Chemistry Laboratory I (lab)(1)
- CHEM1107 - Introductory Chemistry Laboratory II(1)
- CHEM1111 - General Chemistry I (lab)(1)
- CHEM1112 - General Chemistry II (lab)(1)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1307 - Introductory Chemistry II(3)

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- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- CHEM1405 - Introductory Chemistry I(4)
- CHEM1406 - Introductory Chemistry I(4)
- CHEM1411 - General Chemistry I(4)
- CHEM1412 - General Chemistry II(4)
- CHEM1414 - General Chemistry II(4)
- CHEM2123 - Organic Chemistry I Lab(1)
- CHEM2125 - Organic Chemistry II Lab(1)
- CHEM2323 - Organic Chemistry I(3)
- CHEM2325 - Organic Chemistry II(3)
- GEOL1403 - Physical Geology (4)
- HORT1401 - Horticulture (lecture + Lab)(4)
- PHYS1101 - College Physics Laboratory I(1)
- PHYS1102 - College Physics Lab II(1)
- PHYS1110 - Elementary Physics (1)
- PHYS1115 - Physical Science Lab I(1)
- PHYS1117 - Physical Science Laboratory II(1)
- PHYS1301 - College Physics I (lecture)(3)
- PHYS1302 - College Physics II (lecture)(3)
- PHYS1310 - Elementary Physics (3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1401 - College Physics I(4)
- PHYS1402 - College Physics II(4)
- PHYS1410 - Elementary Physics (4)
- PHYS1415 - Physical Science I(4)
- PHYS2125 - University Physics Laboratory I (lab)(1)
- PHYS2126 - University Physics Laboratory II (lab)(1)
- PHYS2325 - University Physics I (lecture)(3)
- PHYS2326 - University Physics II (lecture)(3)
- PHYS2126 - University Physics Laboratory II (lab)(1)
- PHYS2426 - University Physics II(4)
- Complete at least 1 courses from the following:
 - ^
 - Social/Behavioral Science Elective
 - GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics (3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework (1)
 - PSYC2301 - General Psychology (3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology (3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:

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Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

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Biomedical Equipment Technology - Biomedical Equipment Technology AAS

Locations

Waco
Harlingen

Modality

Hybrid

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - BIOM1101 - Biomedical Equipment Technology (1)
 - BIOM1270 - Shop Skills for Biomedical Equipment Technicians (2)
 - BIOM1373 - Medical Software and Hardware (3)
 - CETT1303 - DC Circuits (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 2

15 Total Credits



- Complete all of the following
 - Complete the following:
 - BIOM1309 - Applied Biomedical Equipment Technology (3)
 - Complete at least 3 credits from the following:
 - BIOM1315 - Medical Equipment Networks (3)
 - ITNW1325 - Fundamentals of Networking Technologies (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - ACGM3NSC - Gen Ed Natural Science Elective (3)

Semester 3

15 Total Credits



- Complete the following:
 - BIOM1341 - Medical Circuits/Troubleshooting (3)
 - BIOM2301 - Safety in Health Care Facilities (3)
 - BIOM2311 - General Medical Equipment I (3)
 - BIOM2319 - Fundamentals of X-Ray and Medical Imaging Systems (3)
 - CETT1325 - Digital Fundamentals (3)

Semester 4

12 Total Credits



- Complete all of the following
 - Complete the following:
 - BIOM2215 - Physiological Instruments I (2)
 - BIOM2231 - Biomedical Clinical Instrumentation (2)
 - Complete at least 2 credits from the following:
 - BIOM2239 - Physiological Instruments II (2)

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- BIOM1291 - Special Topics in Biomedical Engineering-Related Technology/Technician (2)
- BIOM1250 - Diagnostic Ultrasound Imaging System (2)
- Complete at least 3 credits from the following:
 - BIOM2343 - General Medical Equipment II (3)
 - BIOM1355 - Medical Electronic Applications (3)
- Complete the following:
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5
6 Total Credits



- Complete the following:
 - BIOM2388 - Internship - Biomedical Technology/Technician (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - BIOM2388 - Internship - Biomedical Technology/Technician (3)

Pre/Corequisites

- BIOM 1315 Prerequisite(s): BIOM 1373
- CETT 1305 Prerequisite(s): CETT 1303
- BIOM 1341, BIOM 2301, BIOM 2311, BIOM 2319 Prerequisite(s): CETT 1303, CETT 1305
- CETT 1325 Prerequisite(s): CETT 1302 or CETT 1305 (Prerequisite or Corequisite)
- BIOM 2215 Prerequisite(s): BIOM 2301
- BIOM 2239 Prerequisite(s): BIOM 2301, BIOM 2215 (Corequisite)
- BIOM 2343, BIOM 1355 Prerequisite(s): BIOM 2301

Elective Options

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete at least 1 courses from the following:



Natural Science Elective

- BIOL1106 - Biology for Science Majors Laboratory I (lab)(1)
- BIOL1107 - Biology for Science Majors II Lab(1)
- BIOL1108 - Biology Non-Science Majors Laboratory I(1)
- BIOL1109 - Biology for Non-Science Majors II Lab(1)
- BIOL1113 - General Zoology (lab)(1)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL1313 - General Zoology (lecture)(3)

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- BIOL1307 - Biology for Science Majors II(3)
 - BIOL2101 - Anatomy & Physiology I (lab)(1)
 - BIOL2102 - Anatomy & Physiology II (lab)(1)
 - BIOL2116 - Genetics (lab)(1)
 - BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab)(1)
 - BIOL2121 - Microbiology for Science Majors Laboratory(1)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2316 - Genetics (lecture)(3)
 - BIOL2320 - Microbiology for Non-Science Majors (lecture)(3)
 - BIOL2321 - Microbiology for Science Majors(3)
 - BIOL2401 - Anatomy & Physiology I (lecture + lab)(4)
 - BIOL2402 - Anatomy & Physiology II (lecture + lab)(4)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - BIOL2416 - Genetics (4)
 - BIOL2420 - Microbiology for Non-Science Majors (lecture + lab)(4)
 - CHEM1105 - Introductory Chemistry Laboratory I (lab)(1)
 - CHEM1107 - Introductory Chemistry Laboratory II(1)
 - CHEM1111 - General Chemistry I (lab)(1)
 - CHEM1112 - General Chemistry II (lab)(1)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1307 - Introductory Chemistry II(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - CHEM1405 - Introductory Chemistry I(4)
 - CHEM1406 - Introductory Chemistry I(4)
 - CHEM1411 - General Chemistry I(4)
 - CHEM1412 - General Chemistry II(4)
 - CHEM1414 - General Chemistry II(4)
 - CHEM2123 - Organic Chemistry I Lab(1)
 - CHEM2125 - Organic Chemistry II Lab(1)
 - CHEM2323 - Organic Chemistry I(3)
 - CHEM2325 - Organic Chemistry II(3)
 - GEOL1403 - Physical Geology (4)
 - HORT1401 - Horticulture (lecture + Lab)(4)
 - PHYS1101 - College Physics Laboratory I(1)
 - PHYS1102 - College Physics Lab II(1)
 - PHYS1110 - Elementary Physics (1)
 - PHYS1115 - Physical Science Lab I(1)
 - PHYS1117 - Physical Science Laboratory II(1)
 - PHYS1301 - College Physics I (lecture)(3)
 - PHYS1302 - College Physics II (lecture)(3)
 - PHYS1310 - Elementary Physics (3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1401 - College Physics I(4)
 - PHYS1402 - College Physics II(4)
 - PHYS1410 - Elementary Physics (4)
 - PHYS1415 - Physical Science I(4)
 - PHYS2125 - University Physics Laboratory I (lab)(1)
 - PHYS2126 - University Physics Laboratory II (lab)(1)
 - PHYS2325 - University Physics I (lecture)(3)
 - PHYS2326 - University Physics II (lecture)(3)
 - PHYS2126 - University Physics Laboratory II (lab)(1)
 - PHYS2426 - University Physics II(4)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)

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- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

Building Construction Technology

Description

TSTC's Building Construction Technology program offers several options that can help you specialize, brush up your skills, or move you on a faster track to build a career in this field. Students in this technology get crucial, hands-on experience using the tools they will encounter when entering the world of construction, backed by a knowledgeable staff and advisors in key positions within the industry.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Building Construction Technology - Building Construction Technology - Commercial Construction Management AAS

Locations

Harlingen
Waco

Modality

Hybrid

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Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - CNBT1300 - Residential and Light Commercial Construction Drawings (3)
 - CNBT1411 - Construction Materials and Methods I (4)
 - OSH1307 - Construction Site Safety and Health (3)
 - CNBT1315 - Field Engineering I (3)

Semester 2

15 Total Credits



- Complete the following:
 - CNBT1313 - Concrete I (3)
 - CNBT1302 - Mechanical, Electrical & Plumbing Systems in Construction I (3)
 - CNBT1342 - Building Codes and Inspections (3)
 - CNBT2310 - Commercial/Industrial Blueprint Reading (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3

16 Total Credits



- Complete the following:
 - CNBT1346 - Construction Estimating I (3)
 - CNBT1449 - Concrete II (4)
 - CNBT2342 - Construction Management I (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

16 Total Credits



- Complete all of the following
 - Complete the following:
 - CNBT1359 - Project Scheduling (3)
 - CNBT2404 - Construction Methods and Materials II (4)
 - CNBT2344 - Construction Management II (3)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - CNBT2344 - Construction Management II (3)

Pre/Corequisites

- CNBT 2310 Prerequisite(s): CNBT 1300
- CNBT 1449 Prerequisite(s): CNBT 1313
- CNBT 2404 Prerequisite(s): CNBT 1411
- CNBT 2344 Prerequisite(s): CNBT 2342

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Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete 1 General Education Elective as recommended by program

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Building Construction Technology - Building Construction Technology - Craftsman CER1

Locations

Fort Bend County
Harlingen
Marshall
New Braunfels
Sweetwater
Waco

Modality

Hybrid

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - CNBT1300 - Residential and Light Commercial Construction Drawings (3)
 - CNBT1316 - Construction Technology I (3)
 - OSH1307 - Construction Site Safety and Health (3)
 - CNBT1315 - Field Engineering I (3)

Semester 2
13 Total Credits



- Complete the following:
 - CNBT1313 - Concrete I (3)
 - CNBT1302 - Mechanical, Electrical & Plumbing Systems in Construction I (3)
 - CNBT1342 - Building Codes and Inspections (3)
 - CNBT1450 - Construction Technology II (4)

Semester 3
11 Total Credits



- Complete the following:
 - CNBT1346 - Construction Estimating I (3)
 - CNBT1453 - Construction Technology III (4)
 - CNBT2439 - Construction Technology IV (4)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - CNBT2439 - Construction Technology IV (4)

Pre/Corequisites

- CNBT 1450, CNBT 1453, CNBT 2439 Prerequisite(s): CNBT 1316

Building Construction Technology - Building Construction Technology AAS

Locations

Harlingen
New Braunfels
Sweetwater
Waco

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Modality

Hybrid

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - CNBT1300 - Residential and Light Commercial Construction Drawings (3)
 - CNBT1316 - Construction Technology I (3)
 - OSHT1307 - Construction Site Safety and Health (3)
 - CNBT1315 - Field Engineering I (3)

Semester 2

16 Total Credits



- Complete the following:
 - CNBT1313 - Concrete I (3)
 - CNBT1302 - Mechanical, Electrical & Plumbing Systems in Construction I (3)
 - CNBT1342 - Building Codes and Inspections (3)
 - CNBT1450 - Construction Technology II (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3

16 Total Credits



- Complete the following:
 - CNBT1346 - Construction Estimating I (3)
 - CNBT1453 - Construction Technology III (4)
 - CNBT2342 - Construction Management I (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

16 Total Credits



- Complete all of the following
 - Complete the following:
 - CNBT1359 - Project Scheduling (3)
 - CNBT2439 - Construction Technology IV (4)
 - CNBT2305 - Building and Contracting (3)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - CNBT2305 - Building and Contracting (3)

Pre/Corequisites

- CNBT 1450, CNBT 1453, CNBT 2439 Prerequisite(s): CNBT 1316
- CNBT 2305 Prerequisite(s): CNBT 2342

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Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

- Complete 1 General Education Elective as recommended by program
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

Business Management Technology

Description

Every business needs professionals to manage an office, administer payroll, balance books, and hire employees to run a business. Our students receive the training needed to succeed in a career in office management and accounting. You will gain skills that include office software use, management techniques, business principles, accounting procedures, leadership methods, and communication tools. This will prepare you to be a professional in any organization and give you the skills to be a successful business owner.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Business Management Technology - Business Management Technology - Bookkeeping - Accounting Assistant CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1

9 Total Credits



- Complete the following:
 - BUSG1301 - Introduction to Business (3)
 - MRKG1301 - Customer Relationship Management (3)
 - ITSC1309 - Integrated Software Applications I (3)

Semester 2

9 Total Credits



- Complete the following:
 - ACNT1325 - Principles of Accounting I (3)
 - BMGT1327 - Principles of Management (3)
 - POFI2301 - Word Processing (3)

Semester 3

9 Total Credits



- Complete the following:
 - ACNT1326 - Principles of Accounting II (3)
 - HRPO2301 - Human Resources Management (3)
 - POFI1349 - Spreadsheets (3)

Semester 4

6 Total Credits



- Complete the following:
 - ACNT1311 - Introduction to Computerized Accounting (3)
 - ACNT1340 - Accounting and Business Ethics (3)

Degree Plan Credits **33**

Capstone

- Complete the following:
 - ACNT1311 - Introduction to Computerized Accounting (3)

Pre/Corequisites

- ACNT 1326, ACNT 1311 Prerequisite(s): ACNT 1325
- POFI 1349 Prerequisite(s): ITSC 1309 or POFI 2301

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Business Management Technology - Business Management Technology - Office Assistant CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - BUSG1301 - Introduction to Business (3)
 - MRKG1301 - Customer Relationship Management (3)
 - ITSC1309 - Integrated Software Applications I (3)

Semester 2
9 Total Credits



- Complete the following:
 - ACNT1325 - Principles of Accounting I (3)
 - BMGT1327 - Principles of Management (3)
 - POFI2301 - Word Processing (3)

Semester 3
3 Total Credits



- Complete the following:
 - POFI1349 - Spreadsheets (3)

Degree Plan Credits **21**

Capstone

- Complete the following:
 - POFI1349 - Spreadsheets (3)

Pre/Corequisites

- POFI 1349 Prerequisite(s): ITSC 1309 or POFI 2301

Business Management Technology - Business Management Technology AAS

Locations

Online - TSTC Connect

Modality

Online
PBE

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Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - BUSG1301 - Introduction to Business (3)
 - MRKG1301 - Customer Relationship Management (3)
 - ITSC1309 - Integrated Software Applications I (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

12 Total Credits



- Complete the following:
 - ACNT1325 - Principles of Accounting I (3)
 - BMGT1327 - Principles of Management (3)
 - POFI2301 - Word Processing (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3

12 Total Credits



- Complete the following:
 - ACNT1326 - Principles of Accounting II (3)
 - HRPO2301 - Human Resources Management (3)
 - POFI1349 - Spreadsheets (3)
 - ACGM3SPH - Gen Ed Speech Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - ACNT1311 - Introduction to Computerized Accounting (3)
 - ACNT1340 - Accounting and Business Ethics (3)
 - ITSW1310 - Introduction to Presentation Graphics Software (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete the following:
 - POFT2312 - Business Correspondence & Communication (3)
 - ACNT1329 - Payroll & Business Tax Accounting (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - Complete at least 3 credits from the following:
 - BUSG1315 - Small Business Operations (3)
 - POFT2380 - Cooperative Education - Administrative Assistant and Secretarial Science, General (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - BUSG1315 - Small Business Operations (3)

Pre/Corequisites

- ACNT 1326, ACNT 1311, ACNT 1329 Prerequisite(s): ACNT 1325
- POFI 1349, ITSW 1310 Prerequisite(s): ITSC 1309 or POFI 2301

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Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
 - SPCH1315 - Public Speaking (3)
 - SPCH1318 - Interpersonal Communication (3)
 - SPCH1321 - Business & Professional Communication(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework (1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

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Business Management Technology - Business Management Technology CER2

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - BUSG1301 - Introduction to Business (3)
 - MRKG1301 - Customer Relationship Management (3)
 - ITSC1309 - Integrated Software Applications I (3)

Semester 2
9 Total Credits



- Complete the following:
 - ACNT1325 - Principles of Accounting I (3)
 - BMGT1327 - Principles of Management (3)
 - POFI2301 - Word Processing (3)

Semester 3
9 Total Credits



- Complete the following:
 - ACNT1326 - Principles of Accounting II (3)
 - HRPO2301 - Human Resources Management (3)
 - POFI1349 - Spreadsheets (3)

Semester 4
9 Total Credits



- Complete the following:
 - ACNT1311 - Introduction to Computerized Accounting (3)
 - ACNT1340 - Accounting and Business Ethics (3)
 - ITSW1310 - Introduction to Presentation Graphics Software (3)

Semester 5
9 Total Credits



- Complete the following:
 - POFT2312 - Business Correspondence & Communication (3)
 - BUSG1315 - Small Business Operations (3)
 - ACNT1329 - Payroll & Business Tax Accounting (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - BUSG1315 - Small Business Operations (3)

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Pre/Corequisites

- ACNT 1326, ACNT 1311, ACNT 1329 Prerequisite(s): ACNT 1325
- POFI 1349, ITSW 1310 Prerequisite(s): ITSC 1309 or POFI 2301

Chemical Dependency Counseling

Description

The Chemical Dependency Counseling (CDC) program at TSTC facilitates the development of the skills necessary for success in the chemical dependency counseling services industry. The program focuses on clinical evaluations, treatment planning, referrals, service coordination, individual and group counseling, documentation, professional and ethical responsibilities, and client, family and community education. With this knowledge base, students will be prepared to work as counselor interns as they strive toward licensure requirements. Graduates of the program find work opportunities through the criminal justice system, substance abuse treatment centers (veterans, adults and adolescents), inpatient or outpatient facilities, hospitals, peer support and peer recovery, as a Certified Family Partner, DWI education course instructor, (DOEP) Drug Offender Education course instructor with Texas Department of Licensing and Regulation, and more.

The CDC program offers flexible learning through Performance-Based Education (PBE), designed to fit your busy schedule. In PBE courses, you demonstrate mastery of course competencies through assessments. At TSTC, the mastery level for technical courses is set at 80% or higher.

In PBE, weighted grading is only assigned to Mastery Assessments with equal weight. Check for Understanding, labs, Practice and Apply activities may be assigned points to show a student's level of understanding, but these activities will have a weight of 0% in the final course grade.

The final course grade is averaged using all Mastery Assessments once all are completed; however, a student will automatically fail the course if all Mastery Assessments are not passed with a grade of 80% or higher.

For example, in a course with five Mastery Assessments, the student passes the first four with 100% each and then decides to skip the final Mastery Assessment. While the average of all five would traditionally work out to an 80% for the final course grade, PBE requires that students pass every Mastery Assessment with an 80% or higher to pass the course. In this example, the student would fail the course.

Deadline for Submitting Final Mastery Assessment Attempts

Your final Mastery Assessment attempt for the semester is due Wednesday at 5:00 PM CST the last week of the semester. This will allow your instructor the 2 business days to grade your assessment and provide feedback. Assessments that can be auto graded will close at 5:00 PM CST on the last Friday of the semester.

Mastery Assessment Grade Carry Over

To successfully complete a course, you must achieve the required mastery level on all Mastery Assessments. One key advantage of PBE is that if you do not complete a course within the semester, your Mastery Assessment scores will carry over, allowing you to pick up where you left off in the next term. Any attempts on that assessment from the previous semester will reset and start over with the first attempt in the new semester.

For the CDC program, you are allowed up to **three attempts** per Mastery Assessment and then a virtual meeting with your instructor will be required.

PBE Grading Scale:

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A=90-100

B=80-89

F= Below 80

Lab attendance is not graded, but through course design it is utilized to guide students to good lab attendance practices and furthering a student's counseling skills.

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information.

****Note:** Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Chemical Dependency Counseling - Chemical Dependency Counseling AAS

Locations

Online - TSTC Connect

Modality

Online
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - DAAC1319 - Introduction to Substance Use Disorders (3)
 - PSYC2301 - General Psychology (3)
 - PSYT1313 - Psychology of Personal Adjustment (3)
 - DAAC1305 - Co-Occurring Disorders (3)

Semester 2

15 Total Credits



- Complete all of the following
 - Complete the following:
 - DAAC1309 - Assessment of Substance Use Disorders (3)
 - DAAC1304 - Pharmacology of Substance Use Disorders (3)
 - DAAC1317 - Basic Counseling Skills (3)
 - DAAC2301 - Therapeutic Communities in a Criminal Justice Setting (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 3

15 Total Credits



- Complete the following:
 - DAAC1311 - Counseling Theories (3)
 - DAAC2343 - Current Issues (3)
 - DAAC2341 - Counseling of Substance Use Disorders (3)
 - DAAC2354 - Dynamics of Group Counseling (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - CJS1325 - Criminology (3)
 - ACGM3GED - Gen Ed Elective (3)
 - DAAC2306 - Substance Abuse Prevention I (3)
 - DAAC2307 - Family Intervention with Substance Use Disorders (3)

Semester 5

6 Total Credits



- Complete the following:
 - DAAC2366 - Practicum (or Field Experience) - Substance Abuse/Addiction Counseling (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - DAAC2366 - Practicum (or Field Experience) - Substance Abuse/Addiction Counseling (3)

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete 1 General Education Elective as recommended by program
 - Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

Chemical Dependency Counseling - Chemical Dependency Counseling CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1

9 Total Credits



- Complete the following:
 - DAAC1319 - Introduction to Substance Use Disorders (3)
 - PSYT1313 - Psychology of Personal Adjustment (3)
 - DAAC1305 - Co-Occurring Disorders (3)

Semester 2

12 Total Credits



- Complete the following:
 - DAAC2301 - Therapeutic Communities in a Criminal Justice Setting (3)
 - DAAC1317 - Basic Counseling Skills (3)
 - DAAC1309 - Assessment of Substance Use Disorders (3)
 - DAAC1304 - Pharmacology of Substance Use Disorders (3)

Degree Plan Credits **21**

Capstone

- Complete the following:
 - DAAC2301 - Therapeutic Communities in a Criminal Justice Setting (3)

Chemical Dependency Counseling - Chemical Dependency Counseling CER2

Locations

Online - TSTC Connect

Modality

Online
PBE

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - DAAC1319 - Introduction to Substance Use Disorders (3)
 - PSYT1313 - Psychology of Personal Adjustment (3)
 - DAAC1305 - Co-Occurring Disorders (3)
 - PSYC2301 - General Psychology (3)

Semester 2

12 Total Credits



- Complete the following:
 - DAAC1304 - Pharmacology of Substance Use Disorders (3)
 - DAAC1309 - Assessment of Substance Use Disorders (3)
 - DAAC1317 - Basic Counseling Skills (3)
 - DAAC2301 - Therapeutic Communities in a Criminal Justice Setting (3)

Semester 3

12 Total Credits



- Complete the following:
 - DAAC2343 - Current Issues (3)
 - DAAC2341 - Counseling of Substance Use Disorders (3)
 - DAAC2354 - Dynamics of Group Counseling (3)
 - DAAC1311 - Counseling Theories (3)

Semester 4

6 Total Credits



- Complete all of the following
 - Complete the following:
 - DAAC2366 - Practicum (or Field Experience) - Substance Abuse/Addiction Counseling (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits**42**

Capstone

- Complete the following:
 - DAAC2366 - Practicum (or Field Experience) - Substance Abuse/Addiction Counseling (3)

Computer Networking & Systems Administration

Description

The Computer Networking & Systems Administration program prepares students to install, configure, secure, and manage the network infrastructure and computing systems that organizations across every industry depend on. Through hands-on labs with real equipment and self-paced, performance-based coursework, students develop practical skills in configuring and troubleshooting computers, switches, routers, servers, and firewalls, the core technologies behind every connected business.

The program offers multiple credential pathways, including an Associate of Applied Science degree and three technical certificates, with courses available online, in-person and in hybrid formats across six Texas campuses. Industry certification preparation is woven throughout the curriculum, covering CompTIA A+, Network+, Security+, Cloud+, and Cisco CCNA through an official Cisco Networking Academy, as well as Amazon Web Services (AWS) Academy partnership.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Computer Networking & Systems Administration - Computer Networking & Systems Admin - IT Support Tier I CER1

Locations

Online - TSTC Connect
Abilene
Marshall
North Texas
Waco
Williamson County

Modality

Hybrid
Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITNW1358 - Network+ (3)
 - ITSC1325 - Personal Computer Hardware (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITCC1314 - CCNA 1: Introduction to Networks (3)
 - ITNW1345 - Implementing Network Directory Services (3)
 - ITSC1316 - Linux Installation and Configuration (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - ITCC1314 - CCNA 1: Introduction to Networks (3)
 - ITNW1345 - Implementing Network Directory Services (3)

Pre/Corequisites

- ITSC 1316 Prerequisite(s): ITNW 1308

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Computer Networking & Systems Administration - Computer Networking & Systems Admin - IT Support Tier II CER2

Locations

Online - TSTC Connect
Abilene
Marshall
North Texas
Waco
Williamson County

Modality

Hybrid
Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITNW1358 - Network+ (3)
 - ITSC1325 - Personal Computer Hardware (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITCC1314 - CCNA 1: Introduction to Networks (3)
 - ITNW1345 - Implementing Network Directory Services (3)
 - ITSC1316 - Linux Installation and Configuration (3)

Semester 3
12 Total Credits



- Complete the following:
 - ITCC1344 - CCNA 2: Switching, Routing, and Wireless Essentials (3)
 - ITNW1313 - Computer Virtualization (3)
 - ITSY1342 - Information Technology Security (3)
 - ITNW2354 - Internet/Intranet Server (3)

Degree Plan Credits **30**

Capstone

- Complete the following:
 - ITCC1344 - CCNA 2: Switching, Routing, and Wireless Essentials (3)
 - ITNW2354 - Internet/Intranet Server (3)

Pre/Corequisites

- ITSC 1316 Prerequisite(s): ITNW 1308
- ITCC 1344 Prerequisite(s): ITCC 1314
- ITSY 1342 Prerequisite(s): ITNW 1345 or ITNW 1354
- ITNW 2354 Prerequisite(s): ITNW 1345, ITSC 1316

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Locations

Online - TSTC Connect
Abilene
Marshall
North Texas
Waco
Williamson County

Modality

Hybrid
Online
PBE
Dual Modality

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITNW1358 - Network+ (3)
 - ITSC1325 - Personal Computer Hardware (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - ITCC1314 - CCNA 1: Introduction to Networks (3)
 - ITNW1345 - Implementing Network Directory Services (3)
 - ITSC1316 - Linux Installation and Configuration (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 3

12 Total Credits



- Complete the following:
 - ITCC1344 - CCNA 2: Switching, Routing, and Wireless Essentials (3)
 - ITNW1313 - Computer Virtualization (3)
 - ITSY1342 - Information Technology Security (3)
 - ITNW2354 - Internet/Intranet Server (3)

Semester 4

12 Total Credits



- Complete the following:
 - ITCC2320 - CCNA 3: Enterprise Networking, Security , and Automation (3)
 - ITSE1329 - Programming Logic and Design (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3GED - Gen Ed Elective (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - ITNW1309 - Fundamentals of Cloud Computing (3)
 - ITCC2343 - Network Security (3)
 - Complete the following:
 - ITNW2335 - Network Troubleshooting and Support (3)
 - Complete at least 3 credits from the following:
 - ITSC2370 - Final Project-Systems Administration (3)
 - ITSC2386 - Internship - Computer and Information Sciences, General (3)
 - Complete the following:
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete at least 1 of the following:
 - ITSC2370 - Final Project-Systems Administration (3)
 - ITSC2386 - Internship - Computer and Information Sciences, General (3)

Pre/Corequisites

- ITSC 1316 Prerequisite(s): ITNW 1308
- ITCC 1344 Prerequisite(s): ITCC 1314
- ITSY 1342 Prerequisite(s): ITNW 1345 or ITNW 1354
- ITCC 2320 Prerequisite(s): ITCC 1344
- ITNW 2354 Prerequisite(s): ITNW 1345, ITSC 1316
- ITNW 2335 Prerequisite(s): ITCC 2320, ITNW 2354

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I(3)
- ENGL1302 - Composition II(3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication(3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation(3)
- ENGL2321 - British Literature(3)
- ENGL2326 - American Literature (single-Semester Course)(3)
- ENGL2341 - Forms of Literature(3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures(3)
- MUSI1306 - Music Appreciation(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology(3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)

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- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

Computer Networking & Systems Administration - Computer Networking & Systems Administration - Cloud Computing CER2

Locations

Online - TSTC Connect

Modality

Online
PBE

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Program Requirements

Semester 1

9 Total Credits



- Complete the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITNW1358 - Network+ (3)
 - ITNW1313 - Computer Virtualization (3)

Semester 2

9 Total Credits



- Complete the following:
 - ITNW1345 - Implementing Network Directory Services (3)
 - ITSC1316 - Linux Installation and Configuration (3)
 - ITSE1329 - Programming Logic and Design (3)

Semester 3

9 Total Credits



- Complete the following:
 - ITSY1342 - Information Technology Security (3)
 - ITNW2354 - Internet/Intranet Server (3)
 - ITNW1336 - Cloud Deployment & Infrastructure Management (3)

Semester 4

9 Total Credits



- Complete the following:
 - ITSC2325 - Advanced Linux (3)
 - ITNW2327 - Advanced Cloud Concepts (3)
 - ITNW2329 - Application Development for The Cloud (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - ITNW2327 - Advanced Cloud Concepts (3)

Pre/Corequisites

- ITSC 1316 Prerequisite(s): ITNW 1308
- ITSY 1342 Prerequisite(s): ITNW 1358 or ITNW 1325
- ITNW 2354 Prerequisite(s): ITNW 1345, ITSC 1316
- ITSC 2325 Prerequisite(s): ITSC 1316
- ITNW 2327, ITNW 2329 Prerequisite(s): ITNW 1336

Computer Programming Technology

Description

Some of the hottest careers in the job market these days are within the Information Technology sector. That's why Computer Programming Technology (CPT) at TSTC makes sense for a great career choice. Students in this program get a practical, hands-on education that teaches them the technical skills required in the IT field. In addition to technical skills, the student's training centers on the development of logic, problem-solving and soft skills. CPT provides specialized training in business application, mobile development and database functionality that focuses on career expectations leading to a variety of positions, from database developer, mobile app developer, to software development.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Computer Programming Technology - Computer Programming Technology - C# Developer CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - ITSE1302 - Computer Programming (3)
 - ITSE2309 - Database Programming (3)
 - ITSE1394 - Special Topics in Computer Science (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITSE1330 - Introduction to C# Programming (3)
 - ITSE1359 - Introduction to Scripting Languages (3)
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)

Semester 3
6 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSE2353 - Advanced C# Programming (3)
 - Complete at least 3 credits from the following:
 - ITSE2317 - Java Programming (3)
 - ITSE1373 - Introduction to Python (3)

Degree Plan Credits **24**

Capstone

- Complete the following:
 - ITSE2353 - Advanced C# Programming (3)

Pre/Corequisites

- ITSE 1330, ITSE 2317 Prerequisite(s): ITSE 1302
- ITSE 2333 Prerequisite(s): ITSE 2309
- ITSE 2353 Prerequisite(s): ITSE 1330, ITSE 2333

Computer Programming Technology - Computer Programming Technology - Software Developer CER2

Locations

Online - TSTC Connect

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Modality

Online
PBE

Program Requirements

Semester 1

9 Total Credits



- Complete the following:
 - ITSE1302 - Computer Programming (3)
 - ITSE2309 - Database Programming (3)
 - ITSE1394 - Special Topics in Computer Science (3)

Semester 2

9 Total Credits



- Complete the following:
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
 - ITSE1330 - Introduction to C# Programming (3)
 - ITSE1359 - Introduction to Scripting Languages (3)

Semester 3

9 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSE1333 - Mobile Applications Development (3)
 - ITSE2353 - Advanced C# Programming (3)
 - Complete at least 3 credits from the following:
 - ITSE1373 - Introduction to Python (3)
 - ITSE2317 - Java Programming (3)

Semester 4

9 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSE2359 - Advanced Computer Programming (3)
 - ITSE2343 - Advanced Mobile Programming (3)
 - Complete at least 3 credits from the following:
 - INEW2338 - Advanced Java Programming (3)
 - ITSE2373 - Advanced Python (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - ITSE2359 - Advanced Computer Programming (3)

Pre/Corequisites

- ITSE 2333 Prerequisite(s): ITSE 2309
- ITSE 1330, ITSE 2317, Prerequisite(s): ITSE 1302
- ITSE 1333 Prerequisite(s): ITSE 1330
- ITSE 2353 Prerequisite(s): ITSE 1330, ITSE 2333
- ITSE 2359 Prerequisite(s): ITSE 2353, ITSE 2333
- ITSE 2343 Prerequisite(s): ITSE 1333
- INEW 2338 Prerequisite(s): ITSE 2317
- ITSE 2373 Prerequisite(s): ITSE 1373

Computer Programming Technology - Computer Programming Technology AAS

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSE1302 - Computer Programming (3)
 - ITSE2309 - Database Programming (3)
 - ITSE1394 - Special Topics in Computer Science (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

12 Total Credits



- Complete the following:
 - ITSE1359 - Introduction to Scripting Languages (3)
 - ITSE1330 - Introduction to C# Programming (3)
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3

12 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSE1333 - Mobile Applications Development (3)
 - ITSE2353 - Advanced C# Programming (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - ITSE2317 - Java Programming (3)
 - ITSE1373 - Introduction to Python (3)

Semester 4

12 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSE2343 - Advanced Mobile Programming (3)
 - INEW2330 - Comprehensive Software Project: Planning and Design (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - Complete at least 3 credits from the following:
 - INEW2338 - Advanced Java Programming (3)
 - ITSE2373 - Advanced Python (3)

Semester 5

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12 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - INEW2332 - Comprehensive Software Project: Coding, Testing, and Implementation (3)
 - ITSE2386 - Internship - Computer Programming/Programmer, General (3)
 - Complete at least 3 credits from the following:
 - ITSE1307 - Introduction to C++ Programming (3)
 - ITSE1392 - Special Topics in Computer Programming (3)
 - Complete the following:
 - ITSE2359 - Advanced Computer Programming (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete 1 of the following
 - Complete the following:
 - INEW2332 - Comprehensive Software Project: Coding, Testing, and Implementation (3)
 - Complete the following:
 - ITSE2386 - Internship - Computer Programming/Programmer, General (3)

Pre/Corequisites

- ITSE 1330, ITSE 2317, Prerequisite(s): ITSE 1302
- ITSE 2333 Prerequisite(s): ITSE 2309
- ITSE 1333 Prerequisite(s): ITSE 1330
- ITSE 2353 Prerequisite(s): ITSE 1330, ITSE 2333
- ITSE 2343 Prerequisite(s): ITSE 1333
- ITSE 2338 Prerequisite(s): ITSE 2317
- ITSE 2373 Prerequisite(s): ITSE 1373
- ITSE 2330 Prerequisite(s): ITSE 2333, ITSE 2353
- ITSE 2332 Prerequisite(s): INEW 2330
- ITSE 2386 Prerequisite(s): ITSE 2353 or ITSE 2373 or INEW 2338, ITSE 2333
- ITSE 1307, ITSE 1392 Prerequisite(s): ITSE 1330, ITSE 1373 or ITSE 2317
- ITSE 2359 Prerequisite(s): ITSE 2353, ITSE 2333

Elective Options

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)

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- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:
 - ^
 - Humanities/Fine Arts Elective
 - HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:
 - ^
 - General Education Electives
 - ENGL1301 - Composition I(3)
 - ENGL1302 - Composition II(3)
 - ENGL2311 - Technical & Business Writing(3)
 - HIST2321 - World Civilizations I(3)
 - SPCH1315 - Public Speaking(3)
 - SPCH1318 - Interpersonal Communication(3)
 - SPCH1321 - Business & Professional Communication(3)
 - ARTS1301 - Art Appreciation(3)
 - ENGL2321 - British Literature(3)
 - ENGL2326 - American Literature (single-Semester Course)(3)
 - ENGL2341 - Forms of Literature(3)
 - HUMA1301 - Introduction to Humanities I(3)
 - HUMA2323 - World Cultures(3)
 - MUSI1306 - Music Appreciation(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - SOCI1301 - Introduction to Sociology(3)
 - BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1412 - General Chemistry II(4)
 - MATH1314 - College Algebra (3 SCH version)(3)

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- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)

Culinary Arts

Description

As a Culinary Arts student at TSTC, you will be trained in a multitude of hands-on skill sets and talents. The chef-instructors of TSTC's Culinary Arts program are all highly trained professional chefs with years of industry experience and knowledge that will guide you in your professional journey while in school and out in your career. The TSTC Culinary Arts program is based in classical cooking techniques, food preparation, meat and seafood fabrication, baking, pastry, American regional and international cuisines, dining room services, purchasing, and cost analysis. It culminates with the associate degree capstone course that allow you to run the kitchen with your cuisine. The Culinary Arts department at TSTC also teaches food-related topics, including nutrition, sanitation and safety, food service equipment, supervision, and culinary math.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Culinary Arts - Culinary & Hospitality Management AAS

Locations

Waco
Sweetwater

Modality

Hybrid

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - CHEF1305 - Sanitation and Safety (3)
 - IFWA1401 - Food Preparation I (4)
 - IFWA1218 - Nutrition for the Food Service Professional (2)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 2

13 Total Credits



- Complete all of the following
 - Complete the following:
 - IFWA1427 - Food Preparation II (4)
 - PSTR1301 - Fundamentals of Baking (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - Complete at least 3 credits from the following:
 - RSTO1304 - Dining Room Service (3)
 - RSTO1380 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager (3)

Semester 3

12 Total Credits



- Complete all of the following
 - Complete the following:
 - IFWA1217 - Food Production and Planning (2)
 - PSTR2431 - Advanced Pastry Shop (4)
 - RSTO1313 - Hospitality Supervision (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 4

12 Total Credits



- Complete the following:
 - IFWA2341 - Specialized Food Preparation (3)
 - RSTO2301 - Principles of Food & Beverage Controls (3)
 - RSTO1325 - Purchasing for Hospitality Operations (3)
 - ACGM3GED - Gen Ed Elective (3)

Semester 5

11 Total Credits



- Complete all of the following
 - Complete at least 5 credits from the following:
 - RSTO2505 - Management of Food Production and Service (5)
 - RSTO1680 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager (6)
 - Complete the following:
 - HAMG2305 - Hospitality Management and Leadership (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - HAMG2305 - Hospitality Management and Leadership (3)

Pre/Corequisites

- IFWA 1427, PSTR 1301, RSTO 1304, RSTO 1480 Prerequisite(s): (CHEF 1205 or CHEF 1305), IFWA 1401
- PSTR 2431 Prerequisite(s): PSTR 1301
- IFWA 2341 Prerequisite(s): IFWA 1427, PSTR 2431
- RSTO 2505, RSTO 1680 Prerequisite(s): (CHEF 1441, CHEF 1445) or IFWA 2341, IFWA 1217, RSTO 1313
- HAMG 2305 Prerequisite(s): RSTO 1313

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics (3)
 - ECON2302 - Principles of Microeconomics (3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework (1)
 - PSYC2301 - General Psychology (3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology (3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I (3)
- ENGL1302 - Composition II (3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)

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- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology(3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

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Cybersecurity

Description

There's a strong demand for those who understand the importance of protecting a company's data. It takes specialized skills and in-depth knowledge of computer networking, operating systems and administration, encryption, firewalls and much more.

The Cybersecurity (CYS) program will provide students with the knowledge/skills required to:

- Implement, maintain and securely administer infrastructure hardware and software.
- Implement security controls to aid in preventing, defending, detecting and responding to cyberattacks and threats.
- Use cyber defense tools/techniques for continual monitoring and analysis of system activity to identify abnormal/malicious activity.
- Perform security reviews and identify security gaps in security implementations, resulting in recommendations for inclusion in a risk mitigation strategy.
- Identify, collect, examine and preserve evidence using controlled and documented analytical and investigative techniques.

In addition, those who pursue the associate degree have the opportunity to further their skills in digital forensics with the Digital Forensics Advanced Technical Certificate. This certificate is for students who have previously completed an associate degree in security and provides advanced, specialized instruction in Digital Forensics.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Cybersecurity - Cybersecurity Technology - Digital Forensics ATC

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
8 Total Credits



- Complete the following:
 - ITDF2420 - Digital Forensics Collection (4)
 - ITDF2430 - Digital Forensics Analysis (4)

Semester 2
8 Total Credits



- Complete the following:
 - ITDF2425 - Digital Forensics Tools (4)
 - ITDF2435 - Comprehensive Digital Forensics Project (4)

Degree Plan Credits **16**

Pre/Corequisites

- ITDF 2420, ITDF 2430 Prerequisite(s): AAS Degree - Security
- ITDF 2425 Prerequisite(s): ITDF 2420
- ITDF 2435 Prerequisite(s): ITDF 2430

Cybersecurity - Cybersecurity Technology AAS

Locations

Online - TSTC Connect
Harlingen
Fort Bend County
Marshall
North Texas
Waco
Williamson County

Modality

Hybrid
Online
PBE
Dual Modality

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - ITNW1358 - Network+ (3)
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITSC1325 - Personal Computer Hardware (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 2

12 Total Credits



- Complete the following:
 - ITSC1316 - Linux Installation and Configuration (3)
 - ITSY2300 - Operating System Security (3)
 - ITSY1342 - Information Technology Security (3)
 - ENGL1301 - Composition I (3)

Semester 3

12 Total Credits



- Complete the following:
 - ITSY1374 - Secure Linux Administration (3)
 - ITNW1354 - Implementing and Supporting Servers (3)
 - ITSC1342 - Shell Programming (3)
 - ACGM3GED - Gen Ed Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - ITDF1300 - Introduction to Digital Forensics (3)
 - ITSY2341 - Security Management Practices (3)
 - ITSY2345 - Network Defense and Countermeasures (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5

9 Total Credits



- Complete all of the following
 - Complete the following:
 - ITSY2359 - Security Assessment and Auditing (3)
 - Course Not Found
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - ITSY2386 - Internship - Computer and Information Systems Security (3)
 - ITSY2372 - Cybersecurity Capstone (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
 - ITSY2359 - Security Assessment and Auditing (3)

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Pre/Corequisites

- ITSC 1316, ITSY 2300 Prerequisite(s): ITNW 1308
- ITSY 1342, ITSC 1342 Prerequisite(s): ITNW 1358 or ITNW 1325
- ITSY 1374 Prerequisite(s): ITNW 1354 or ITSC 1316, ITNW 1358 or ITNW 1325
- ITNW 1354 Prerequisite(s): ITNW 1308 or ITSY 2300, ITNW 1358 or ITNW 1325
- ITDF 1300 Prerequisite(s): ITSC 1325 or ITSY 1342
- ITSY 2341 Prerequisite(s): ITSY 1342
- ITSY 2345 Prerequisite(s): (ITNW 1354, ITSY 1374), (ITNW 2321 or ITSY 1342)
- ITSY 2359 Prerequisite(s): ITSY 2345
- ITSY 2371 Prerequisite(s): ITSY 1342, ITSY 2341, ITDF 1300
- ITSY 2386, ITSY 2372 Prerequisite(s): ITSY 1342, ITSY 2341, ITSY 2345, ITDF 1300

Elective Options

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I(3)
- ENGL1302 - Composition II(3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course)(3)
- ENGL2341 - Forms of Literature(3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)

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- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

Cybersecurity - Cybersecurity Technology CER1

Locations

Online - TSTC Connect
Harlingen
Fort Bend County
Marshall
North Texas
Waco
Williamson County

Modality

Online
PBE
Dual Modality

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - ITNW1358 - Network+ (3)
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITSC1325 - Personal Computer Hardware (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITSC1316 - Linux Installation and Configuration (3)
 - ITSY2300 - Operating System Security (3)
 - ITSY1342 - Information Technology Security (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - ITSY2300 - Operating System Security (3)

Pre/Corequisites

- Complete all of the following
 - ITSC 1316, ITSY 2300 Prerequisite(s): ITNW 1308
 - ITSY 1342 Prerequisite(s): ITNW 1358 or ITNW 1325

Cybersecurity - Cybersecurity Technology CER2

Locations

Fort Bend County
Harlingen
Marshall
North Texas
Online - TSTC Connect
Waco
Williamson County

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Modality

Online
PBE
Dual Modality

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - ITNW1358 - Network+ (3)
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITSC1325 - Personal Computer Hardware (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITSC1316 - Linux Installation and Configuration (3)
 - ITSY2300 - Operating System Security (3)
 - ITSY1342 - Information Technology Security (3)

Semester 3
9 Total Credits



- Complete the following:
 - ITSY1374 - Secure Linux Administration (3)
 - ITNW1354 - Implementing and Supporting Servers (3)
 - ITSC1342 - Shell Programming (3)

Semester 4
9 Total Credits



- Complete the following:
 - ITDF1300 - Introduction to Digital Forensics (3)
 - ITSY2341 - Security Management Practices (3)
 - ITSY2345 - Network Defense and Countermeasures (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - ITSY2345 - Network Defense and Countermeasures (3)

Pre/Corequisites

- ITSC 1316, ITSY 2300 Prerequisite(s): INTW 1308
- ITSY 1342, ITSC 1342 Prerequisite(s): ITNW 1358 or ITNW 1325
- ITSY 1374 Prerequisite(s): ITNW 1354 or ITSC 1316, ITNW 1358 or ITNW 1325
- ITNW 1354 Prerequisite(s): ITNW 1308 or ITSY 2300, ITNW 1358 or ITNW 1325
- ITDF 1300 Prerequisite(s): ITSC 1325 or ITSY 1342
- ITSY 2341 Prerequisite(s): ITSY 1342
- ITSY 2345 Prerequisite(s): (ITNW 1354, ITSY 1374), (ITNW 2321 or ITSY 1342)

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Dental Hygiene

Description

The Dental Hygiene program at TSTC prepares students for the industry of preventative dentistry with a well-rounded curriculum that includes preventative dental hygiene, pharmacology, periodontology, pathology, dental nutrition and more. Dental Hygiene students at TSTC are able to fulfill their clinical experiences at our modern and innovative dental clinic on campus. The students utilize the 14-chair clinic to receive over 600 hours of instruction in a 1-faculty-to-5-student ratio. External clinical experiences also allow a wide variety of patient treatment. Graduates of the program are well prepared to successfully complete the National Board Dental Hygiene Examination and the American Board of Dental Examiners (ADEX, clinical board), as well as the Texas Jurisprudence Examination for licensure.

Grading Scale

A = 100-93
B = 92-86
C = 85-78
D = 77-70
F = 69-0

NOTE: Students must maintain a 78% (C) or better in all program classes in order to advance to the next semester. A grade of "D" or "F" will not be accepted in the Dental Hygiene program and will not be acceptable for program advancement.

Dental hygiene treatment is a very important part of the overall health of a patient. Dental Hygiene students are challenged to maintain very high standards in the training that they receive in the program. The Dental Hygiene National Board Exam is required for licensure as a Registered Dental Hygienist with a passing score of 75%. Therefore, the students must maintain at least a 78% (C) in all dental hygiene courses, didactic and lab, to be prepared for the National Board Exam, and to successfully advance through the program. Students who fail any program course(s) will be dismissed, and may be given the opportunity to reapply and/or repeat the program in full.

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program's area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information. **Note: Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Dental Hygiene - Dental Hygiene AAS

Locations

Harlingen

Modality

Hybrid

Program Requirements

Semester 1
14 Total Credits

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- Complete all of the following
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - Complete at least 4 credits from the following:
 - CHEM1405 - Introductory Chemistry I (4)
 - CHEM1105 - Introductory Chemistry Laboratory I (lab) (1)
 - CHEM1305 - Introductory Chemistry I (lecture) (3)
 - Complete the following:
 - ENGL1301 - Composition I (3)
 - SPCHX3XX - Gen Ed Speech Elective (3)

Semester 2

15 Total Credits



- Complete all of the following
 - Complete the following:
 - DHYG1227 - Preventive Dental Hygiene Care (2)
 - DHYG1301 - Orofacial Anatomy, Histology & Embryology (3)
 - DHYG1331 - Preclinical Dental Hygiene (3)
 - DHYG1304 - Dental Radiology (3)
 - Complete at least 4 credits from the following:
 - BIOL2402 - Anatomy & Physiology II (lecture + lab) (4)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)

Semester 3

13 Total Credits



- Complete all of the following
 - Complete the following:
 - DHYG1211 - Periodontology (2)
 - DHYG1360 - Clinical- Dental Hygiene/Hygienist (3)
 - DHYG1235 - Pharmacology for the Dental Hygienist (2)
 - DHYG2201 - Dental Hygiene Care I (2)
 - Complete at least 4 credits from the following:
 - BIOL2420 - Microbiology for Non-Science Majors (lecture + lab) (4)
 - BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab) (1)
 - BIOL2320 - Microbiology for Non-Science Majors (lecture) (3)

Semester 4

12 Total Credits



- Complete the following:
 - DHYG1215 - Community Dentistry (2)
 - DHYG1219 - Dental Materials (2)
 - DHYG1239 - General and Oral Pathology (2)
 - DHYG2360 - Clinical - Dental Hygiene/Hygienist (3)
 - BIOL1322 - Nutrition & Diet Therapy (3)

Semester 5

14 Total Credits



- Complete the following:
 - DHYG2153 - Dental Hygiene Practice (1)
 - DHYG2461 - Clinical- Dental Hygiene/Hygienist (4)

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- o PSYC2301 - General Psychology (3)
- o SOCI1301 - Introduction to Sociology (3)
- o ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **68**

Capstone

- Complete the following:
 - o DHYG2461 - Clinical- Dental Hygiene/Hygienist (4)

Pre/Corequisites

- DHYG 1360 Prerequisite(s): DHYG 1331
- DHYG 2360 Prerequisite(s): DHYG 1360
- DHYG 2461 Prerequisite(s): DHYG 2360

Elective Options

- Complete at least 1 courses from the following:
^
Speech Elective
 - SPCH1311 - Introduction to Speech Communication(3)
 - SPCH1315 - Public Speaking (3)
 - SPCH1318 - Interpersonal Communication (3)
 - SPCH1321 - Business & Professional Communication(3)
- Complete at least 1 courses from the following:
^
Humanities/Fine Arts Elective
 - HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)

Diesel Equipment Technology

Description

TSTC's Diesel Equipment Technology program offers several avenues of entry into the workforce: Off-Highway Equipment, Heavy Truck and John Deere. TSTC's field-experienced faculty members work closely with diesel industries to develop a curriculum that meets workforce demands. Diesel Equipment Technology students will learn diesel engine testing and repair, brake systems, HVAC troubleshooting and repair, electrical systems, hydraulics, failure analysis, and more. Because of the vast uses of highly advanced pneumatic, hydraulic and electronic systems technology, the industry needs quality-trained technicians to repair and maintain the equipment. TSTC students learn from skilled craftsmen who have field experience. For quicker entry into the industry, certificates are also available.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Diesel Equipment Technology - Diesel Equipment Technology - Heavy Truck AAS

2026-2027 Catalog & Student Handbook

Locations

Waco
Fort Bend County
Sweetwater
North Texas
Abilene
Harlingen

Modality

Hybrid
PBE

Program Requirements

Semester 1
16 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1371 - Chassis I (3)
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2
16 Total Credits



- Complete the following:
 - DEMR1321 - Power Train I (3)
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1406 - Diesel Engine I (4)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3
15 Total Credits



- Complete the following:
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR1372 - Chassis II (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
 - DEMR2339 - Advanced Electrical Systems (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4
13 Total Credits



- Complete the following:
 - DEMR1447 - Power Train II (4)
 - DEMR2370 - Hybrid and Electric Vehicle Systems (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

2026-2027 Catalog & Student Handbook

Capstone

- Complete the following:
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- Complete all of the following
 - DEMR 2332 Prerequisite(s): DEMR 1305
 - DEMR 2334 Prerequisite(s): DEMR 1410
 - DEMR 1372 Prerequisite(s): DEMR 1371
 - DEMR 2339 Prerequisite(s): DEMR 2332 (Prerequisite or Corequisite)
 - DEMR 1447 Prerequisite(s): DEMR 1321
 - DEMR 2370 Prerequisite(s): DEMR 2339

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)

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- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)
- Complete at least courses from the following:



General Education Electives

- ENGL1301 - Composition I (3)
- ENGL1302 - Composition II (3)
- ENGL2311 - Technical & Business Writing (3)
- HIST2321 - World Civilizations I (3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication (3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I (3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions (3)
- PHIL2306 - Introduction to Ethics (3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics) (3)
- GOVT2306 - Texas Government (Texas constitution & topics) (3)
- HIST1301 - United States History I (3)
- HIST1302 - United States History II (3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development (3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture) (3)
- BIOL1307 - Biology for Science Majors II (3)
- BIOL1308 - Biology for Non-Science Majors I (3)
- BIOL1309 - Biology for Non-Science Majors II (3)
- BIOL2301 - Anatomy & Physiology I (lecture) (3)
- BIOL2302 - Anatomy & Physiology II (lecture) (3)
- CHEM1305 - Introductory Chemistry I (lecture) (3)
- CHEM1311 - General Chemistry I (lecture) (3)
- CHEM1412 - General Chemistry II (4)
- MATH1314 - College Algebra (3 SCH version) (3)
- MATH1316 - Plane Trigonometry (3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)
- MATH1342 - Elementary Statistical Methods (3)
- PHYS1315 - Physical Science I (lecture) (3)
- PHYS1315 - Physical Science I (lecture) (3)

2026-2027 Catalog & Student Handbook

Diesel Equipment Technology - Diesel Equipment Technology - Heavy Truck CER1

Locations

Waco
Fort Bend County
Sweetwater
North Texas
Abilene
Harlingen

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1371 - Chassis I (3)
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Semester 2
13 Total Credits



- Complete the following:
 - DEMR1321 - Power Train I (3)
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1406 - Diesel Engine I (4)

Semester 3
12 Total Credits



- Complete the following:
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR1372 - Chassis II (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
 - DEMR2339 - Advanced Electrical Systems (3)

Degree Plan Credits **38**

Capstone

- Complete the following:
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 1372 Prerequisite(s): DEMR 1371
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2339 Prerequisite(s): DEMR 2332 (Prerequisite or Corequisite)

Diesel Equipment Technology - Diesel Equipment Technology - Heavy Truck CER2

2026-2027 Catalog & Student Handbook

Locations

Waco
Fort Bend County
Sweetwater
North Texas
Abilene
Harlingen

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1371 - Chassis I (3)
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Semester 2
13 Total Credits



- Complete the following:
 - DEMR1321 - Power Train I (3)
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1406 - Diesel Engine I (4)

Semester 3
12 Total Credits



- Complete the following:
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR1372 - Chassis II (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
 - DEMR2339 - Advanced Electrical Systems (3)

Semester 4
7 Total Credits



- Complete the following:
 - DEMR1447 - Power Train II (4)
 - DEMR2370 - Hybrid and Electric Vehicle Systems (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 1372 Prerequisite(s): DEMR 1371
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2339 Prerequisite(s): DEMR 2332 (Prerequisite or Corequisite)

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Diesel Equipment Technology - Diesel Equipment Technology - John Deere AAS

Locations

Waco

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Semester 2

13 Total Credits



- Complete the following:
 - DEMR1406 - Diesel Engine I (4)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1321 - Power Train I (3)
 - DEMR1316 - Basic Hydraulics (3)

Semester 3

16 Total Credits



- Complete the following:
 - DEMR2335 - Advanced Hydraulics (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
 - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
 - AGME1353 - Harvesting Equipment (3)
 - HEMR1401 - Tracks and Undercarriages (4)

Semester 4

9 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1380 - Cooperative Education - Diesel Mechanics Technology/Technician (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 5

9 Total Credits



- Complete the following:
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

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Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2335 Prerequisite(s): DEMR 1316
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1316, (DEMR 1321 or HEMR 1304)

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete 1 General Education Elective as recommended by program

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Diesel Equipment Technology - Diesel Equipment Technology - John Deere CER2

Locations

Waco

Modality

Hybrid
PBE

Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Semester 2

13 Total Credits



- Complete the following:
 - DEMR1406 - Diesel Engine I (4)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1321 - Power Train I (3)
 - DEMR1316 - Basic Hydraulics (3)

Semester 3

16 Total Credits



- Complete the following:
 - DEMR2335 - Advanced Hydraulics (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
 - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
 - AGME1353 - Harvesting Equipment (3)
 - HEMR1401 - Tracks and Undercarriages (4)

Semester 4

3 Total Credits



- Complete the following:
 - DEMR1380 - Cooperative Education - Diesel Mechanics Technology/Technician (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2335 Prerequisite(s): DEMR 1316
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1316, (DEMR 1321 or HEMR 1304)

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Diesel Equipment Technology - Diesel Equipment Technology - Off Highway AAS

Locations

Waco
Marshall
Fort Bend County

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

16 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1371 - Chassis I (3)
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

16 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - DEMR1321 - Power Train I (3)
 - HEMR1304 - Natural Gas Compression (3)
 - Complete the following:
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1406 - Diesel Engine I (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3

16 Total Credits



- Complete all of the following
 - Complete at least 3 credits from the following:
 - AGME1353 - Harvesting Equipment (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
 - Complete the following:
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
 - HEMR1401 - Tracks and Undercarriages (4)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - DEMR2335 - Advanced Hydraulics (3)
 - DEMR2339 - Advanced Electrical Systems (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - DEMR2339 - Advanced Electrical Systems (3)

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Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1316, (DEMR 1321 or HEMR 1304)
- DEMR 2335 Prerequisite(s): DEMR 1316
- DEMR 2339 Prerequisite(s): DEMR 2332

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography(3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



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General Education Electives

- ENGL1301 - Composition I (3)
- ENGL1302 - Composition II (3)
- ENGL2311 - Technical & Business Writing (3)
- HIST2321 - World Civilizations I (3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication (3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I (3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions (3)
- PHIL2306 - Introduction to Ethics (3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics) (3)
- GOVT2306 - Texas Government (Texas constitution & topics) (3)
- HIST1301 - United States History I (3)
- HIST1302 - United States History II (3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development (3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture) (3)
- BIOL1307 - Biology for Science Majors II (3)
- BIOL1308 - Biology for Non-Science Majors I (3)
- BIOL1309 - Biology for Non-Science Majors II (3)
- BIOL2301 - Anatomy & Physiology I (lecture) (3)
- BIOL2302 - Anatomy & Physiology II (lecture) (3)
- CHEM1305 - Introductory Chemistry I (lecture) (3)
- CHEM1311 - General Chemistry I (lecture) (3)
- CHEM1412 - General Chemistry II (4)
- MATH1314 - College Algebra (3 SCH version) (3)
- MATH1316 - Plane Trigonometry (3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)
- MATH1342 - Elementary Statistical Methods (3)
- PHYS1315 - Physical Science I (lecture) (3)
- PHYS1315 - Physical Science I (lecture) (3)

Diesel Equipment Technology - Diesel Equipment Technology - Off Highway CER1

Locations

Waco
Marshall
Fort Bend County

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1371 - Chassis I (3)
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Semester 2

13 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1406 - Diesel Engine I (4)
 - Complete at least 3 credits from the following:
 - DEMR1321 - Power Train I (3)
 - HEMR1304 - Natural Gas Compression (3)

Semester 3

13 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
 - HEMR1401 - Tracks and Undercarriages (4)
 - Complete at least 3 credits from the following:
 - AGME1353 - Harvesting Equipment (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Degree Plan Credits **39**

Capstone

- Complete the following:
 - HEMR1401 - Tracks and Undercarriages (4)

Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1316, (DEMR 1321 or HEMR 1304)

Diesel Equipment Technology - Diesel Equipment Technology - Off Highway CER2

Locations

Waco
Marshall
Fort Bend County

Modality

Hybrid
PBE

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Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR1371 - Chassis I (3)
 - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Semester 2

13 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR1406 - Diesel Engine I (4)
 - Complete at least 3 credits from the following:
 - DEMR1321 - Power Train I (3)
 - HEMR1304 - Natural Gas Compression (3)

Semester 3

13 Total Credits



- Complete all of the following
 - Complete the following:
 - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
 - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
 - HEMR1401 - Tracks and Undercarriages (4)
 - Complete at least 3 credits from the following:
 - AGME1353 - Harvesting Equipment (3)
 - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Semester 4

6 Total Credits



- Complete the following:
 - DEMR2335 - Advanced Hydraulics (3)
 - DEMR2339 - Advanced Electrical Systems (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
 - DEMR2339 - Advanced Electrical Systems (3)

Pre/Corequisites

- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2334 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1316, (DEMR 1321 or HEMR 1304)
- DEMR 2335 Prerequisite(s): DEMR 1316
- DEMR 2339 Prerequisite(s): DEMR 2332

Electrical Construction

Description

The Electrical Construction certificate program offers specific coursework in residential and commercial wiring systems. The program also provides training opportunities to aid individuals interested in earning licenses specific to the electrical field. The program requires extensive hands-on work with electrical materials and equipment. Curriculum teaches students blueprint reading, technical calculations, electrical safety and theory, residential and commercial wiring, and more. Most graduates will begin their careers as assistants to experienced electricians, installing electrical wiring in new construction and servicing wiring in existing structures.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Electrical Construction - Electrical Construction AAS

Locations

Fort Bend County
Harlingen
Marshall
Waco

Modality

Hybrid
non PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - ELPT1311 - Basic Electrical Theory (3)
 - ELPT1325 - National Electrical Code I (3)
 - ELPT1329 - Residential Wiring (3)
 - Complete at least 3 credits from the following:
 - OSHT1305 - OSHA Regulations - Construction Industry (3)
 - OSHT1307 - Construction Site Safety and Health (3)

Semester 2

12 Total Credits



- Complete the following:
 - ELPT1315 - Electrical Calculations I (3)
 - ELPT1345 - Commercial Wiring (3)
 - ELPT1357 - Industrial Wiring (3)
 - ELPT2337 - Electrical Planning and Estimating (3)

Semester 3

16 Total Credits



- Complete the following:
 - ELPT1491 - Special Topics in Electrical and Power Transmission Installer, General (4)
 - ELPT2315 - Electrical Calculations II (3)
 - ELPT2325 - National Electrical Code II (3)
 - ACGM3GED - Gen Ed Elective (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 4

14 Total Credits



- Complete all of the following
 - Complete the following:
 - ELPT1291 - Special Topics in Electrical and Power Transmission Installer, General (2)
 - ELPT2301 - Journeyman Electrician Exam Review (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL2311 - Technical & Business Writing (3)
 - ENGL1301 - Composition I (3)

Semester 5

6 Total Credits



- Complete 1 of the following
 - Complete the following:
 - ELPT1680 - Cooperative Education - Electrical and Power Transmission Installation/Installer, General (6)
 - Complete the following:
 - ELPT1391 - Special Topics in Electrical and Power Transmission Installer, General (3)
 - ELPT1340 - Master Electrician Exam Review I (3)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - ELPT2301 - Journeyman Electrician Exam Review (3)

Pre/Corequisites

- ELPT 1345, ELPT 1357 Prerequisite(s) or Corequisite(s): ELPT 1311, Prerequisite(s): ELPT 1329
- ELPT 2337 Prerequisite(s) or Corequisite(s): ELPT 1311
- ELPT 1491 Prerequisite(s): ELPT 1329, ELPT 1345, ELPT 1357, ELPT 2337
- ELPT 2315 Prerequisite(s): ELPT 1315
- ELPT 2325 Prerequisite(s): ELPT 1325
- ELPT 2301 Prerequisite(s): ELPT 2315, ELPT 2325
- ELPT 1340 Prerequisite(s): ELPT 2301

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Electrical Construction - Electrical Construction CER1

Locations

Fort Bend County
Harlingen
Marshall
Waco

Modality

Hybrid
non PBE

Program Requirements

Semester 1
12 Total Credits



- Complete all of the following
 - Complete the following:
 - ELPT1311 - Basic Electrical Theory (3)
 - ELPT1325 - National Electrical Code I (3)
 - ELPT1329 - Residential Wiring (3)
 - Complete at least 3 credits from the following:
 - OSHT1305 - OSHA Regulations - Construction Industry (3)
 - OSHT1307 - Construction Site Safety and Health (3)

Semester 2
12 Total Credits



- Complete the following:
 - ELPT1315 - Electrical Calculations I (3)
 - ELPT1345 - Commercial Wiring (3)
 - ELPT1357 - Industrial Wiring (3)
 - ELPT2337 - Electrical Planning and Estimating (3)

Semester 3
4 Total Credits



- Complete at least 4 credits from the following:
 - ELPT1481 - Cooperative Education - Electrical and Power Transmission Installation/Installer, General (4)
 - ELPT1491 - Special Topics in Electrical and Power Transmission Installer, General (4)

Degree Plan Credits **28**

Capstone

- Complete the following:
 - ELPT1357 - Industrial Wiring (3)

Pre/Corequisites

- ELPT 1345, ELPT 1357 Prerequisite(s) or Corequisite(s): ELPT 1311, Prerequisite(s): ELPT 1329
- ELPT 2337 Prerequisite(s) or Corequisite(s): ELPT 1311
- ELPT 1481, ELPT 1491 Prerequisite(s): ELPT 1329, ELPT 1345, ELPT 1357, ELPT 2337

Electrical Lineworker & Management Technology

Description

Lineworker occupations are among the most physically demanding but highest paying careers in the nation, and Texas employs more of them than any other state. In TSTC's Electrical Lineworker and Management Technology program, you will perform practical exercises on the safe use and operation of lineworker climbing gear, equipment, and tools in an authentic utility training environment. To earn high wages in this exciting career, you must be able to work at elevated heights for long hours in all weather conditions. This industry is for those who want to reap the rewarding benefits of a high-demand career. Please note: Candidates for this program will be required upon entry to provide a valid Class C driver's license.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Electrical Lineworker & Management Technology - Electrical Lineworker Technology - Management AAS

Locations

Waco
Harlingen
Fort Bend County
Marshall
Abilene

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - CVOP1305 - Commercial Drivers License Written Skills (3)
 - LNWK1301 - Orientation and Line Skill Fundamentals (3)
 - LNWK1311 - Climbing Skills (3)
 - LNWK1370 - Rigging for Electrical Lineworker (3)

Semester 2

12 Total Credits



- Complete the following:
 - LNWK2372 - Work Procedures and Safety in Electrical Lineworker (3)
 - LNWK1241 - Distribution Operations (2)
 - LNWK1470 - Electrical Safety, Tools and Calculations (4)
 - LNWK2321 - Live Line Safety (3)

Semester 3

12 Total Credits



- Complete the following:
 - LNWK1331 - Transformer Connections (3)
 - LNWK1391 - Special Topics in Lineworker (3)
 - LNWK2322 - Distribution Line Construction (3)
 - LNWK2370 - Transmission and Underground Utilities (3)

Semester 4

12 Total Credits



- Complete the following:
 - BMGT1309 - Information and Project Management (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete the following:
 - BMGT1327 - Principles of Management (3)
 - MRKG1301 - Customer Relationship Management (3)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - LNWK2322 - Distribution Line Construction (3)
 - BMGT1309 - Information and Project Management (3)

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Pre/Corequisites

- LNWK 2372, LNWK 1241, LNWK 1470, LNWK 2321, LNWK 1331, LNWK 1391, LNWK 2322, LNWK 2370
Prerequisite(s): LNWK 1311

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete 1 General Education Elective as recommended by program

Electrical Lineworker & Management Technology - Electrical Lineworker Technology CER1

Locations

Waco
Harlingen
Fort Bend County
Marshall
Abilene

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - CVOP1305 - Commercial Drivers License Written Skills (3)
 - LNWK1301 - Orientation and Line Skill Fundamentals (3)
 - LNWK1311 - Climbing Skills (3)
 - LNWK1370 - Rigging for Electrical Lineworker (3)

Semester 2
12 Total Credits



- Complete the following:
 - LNWK2372 - Work Procedures and Safety in Electrical Lineworker (3)
 - LNWK1241 - Distribution Operations (2)
 - LNWK1470 - Electrical Safety, Tools and Calculations (4)
 - LNWK2321 - Live Line Safety (3)

Semester 3
12 Total Credits



- Complete the following:
 - LNWK1331 - Transformer Connections (3)
 - LNWK1391 - Special Topics in Lineworker (3)
 - LNWK2322 - Distribution Line Construction (3)
 - LNWK2370 - Transmission and Underground Utilities (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - LNWK2322 - Distribution Line Construction (3)

Pre/Corequisites

- LNWK 2372, LNWK 1241, LNWK 1470, LNWK 2321, LNWK 1331, LNWK 1391, LNWK 2322, LNWK 2370
Prerequisite(s): LNWK 1311

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Electrical Power and Controls

Description

The Electrical Power & Controls program offers instruction in engineering and design, installation and calibration, maintenance, testing and troubleshooting, and electric utility design. Through intensive classroom instruction and hands-on experience in high-tech labs, students gain a solid foundation in basic electrical concepts, motors and control applications, and then advance to electronics, measurement and calibration, electrical codes, and automated control systems. Knowledge is developed through extensive work with equipment, including DC and AC motors, programmable logic controllers, speed-drive systems, and computer software packages for engineering, designing, and drafting.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Electrical Power and Controls - Electrical Power & Controls AAS

Locations

Waco
Fort Bend County
Abilene
North Texas

Modality

Hybrid

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - ELPT1319 - Fundamentals of Electricity I (3)
 - ELPT1321 - Introduction to Electrical Safety and Tools (3)
 - MATH1316 - Plane Trigonometry (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - ELPT1320 - Fundamentals of Electricity II (3)
 - ELPT1341 - Motor Control (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)
 - Complete the following:
 - ACGM3GED - Gen Ed Elective (3)

Semester 3

12 Total Credits



- Complete the following:
 - ELPT2319 - Programmable Logic Controllers I (3)
 - ELPT2335 - Electrical Theory and Devices (3)
 - DFTG1313 - Drafting for Specific Occupations (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - EEIR1309 - National Electrical Code (3)
 - ELPT1351 - Electrical Machines (3)
 - ELPT2339 - Electrical Power Distribution (3)
 - ELPT2349 - Industrial Automation (3)

Semester 5

12 Total Credits



- Complete the following:
 - ELPT2323 - Transformers (3)
 - ELPT2331 - AC/DC Drives (3)
 - ELPT2343 - Electrical Systems Design (3)
 - ELPT2347 - Electrical Testing and Maintenance (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - ELPT2343 - Electrical Systems Design (3)

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Pre/Corequisites

- ELPT 1320 Prerequisite(s): CETT 1303 or ELPT 1319
- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or ELPT 1319 or CETT 1303 or INMT 1372
- ELPT 2319 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- ELPT 2335 Prerequisite(s): CETT 1305 or ELPT 1320 or MATH 1316
- EEIR 1309 Prerequisite(s): (CETT 1305 or ELPT 1320), ELPT 1341
- ELPT 1351 Prerequisite(s): ELPT 1320 or ELPT 1341
- ELPT 2339 Prerequisite(s): (CETT 1305 or ELPT 1320), DFTG 1313
- ELPT 2349 Prerequisite(s): ELPT 2319
- ELPT 2323 Prerequisite(s): ELPT 2335
- ELPT 2331 Prerequisite(s): (ELPT 1351 or ELPT 2305), ELPT 1341
- ELPT 2343 Prerequisite(s): DFTG 1313, (EEIR 1309 or ELPT 2339)
- ELPT 2347 Prerequisite(s): (CETT 1305 or ELPT 1320), ELPT 1351, ELPT 2339 (Prerequisite or Corequisite)

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics (3)
 - ECON2301 - Principles of Macroeconomics (3)
 - ECON2302 - Principles of Microeconomics (3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography (3)
 - PSYC1100 - Learning Framework (1)
 - PSYC2301 - General Psychology (3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology (3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I (3)
- ENGL1302 - Composition II (3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)

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- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

Electromechanical Technology

Description

The Electromechanical Technology program is a merging of various systems and controls, both mechanical and electrical. The program combines computers, control systems, electrical systems and mechanical systems, and gives students the opportunity to learn the principles and skills required to enter the industry. In the lab setting, students receive hands-on experience with top-notch equipment and systems. They learn to troubleshoot and repair industrial equipment and study the skills, tips and tricks to make them successful in this exciting field.

Money-Back Guarantee

All TSTC students participating in the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1100 Foundations for Career Success. Satisfactory grade completion of HIRE 1100 determines eligibility for the TSTC Money-Back Guarantee initiative.

Emergency Medical Services

Description

In TSTC's Emergency Medical Services program, you will learn from experienced, certified instructors in an environment that combines hands-on labs with online lectures. You will gain skills in medical procedures required to assess and treat victims at the scene and en route to the hospital, and you will get to put your abilities to the test in a clinical learning environment to gain extensive, on-the-job experience. As a program, our goal is to prepare competent entry-level EMTs and paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains, with exit points at the Advanced Emergency Medical Technician or Emergency Medical Technician.

Traditional Grading Scale

A = 100-90

B = 89-80

C = 70-79

D= Fail

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F= Fail

Note: *Students scoring less than 70% as a final course average in EMS will not progress to the next section (*applies to students enrolled prior to Fall 2026 in non-PBE courses)

EMT students who fail EMSP 1501 will also fail EMSP 2237 and EMSP 1261, and would be required to repeat those courses in full. Should a student fail an advanced level course (AEMT or Paramedic), the student will be dismissed and may be given the opportunity to reapply and repeat the program in full or apply for advanced placement if eligible. Should a student fail an advanced level High Stakes Exam or Final Summative Exam after the second attempt, the student will be dismissed and may be given the opportunity to reapply and repeat the program in full or apply for advanced placement if eligible. Once a student has successfully completed the course and all requirements, they will be issued a Course Completion to test for the National Registry Exam (NREMT). The NREMT is required to certify as a Registered EMT, AEMT or Paramedic. To work in the state of Texas, the student will have to apply for their license or certification with the Department of State Health Services (DSHS) after they have successfully passed the NREMT.

Performance-Based Education (PBE)

The Emergency Medical Services program at TSTC offers flexible learning through Performance-Based Education (PBE) starting Fall 2026. All new students after Fall of 2026 will be placed in the PBE model, all continuing students prior to Fall 2027 will continue in the traditional courses.

In PBE courses, you demonstrate mastery of course competencies through assessments. At TSTC, the mastery level for technical courses is set at 80% or higher.

To successfully complete a course, you must achieve the required mastery level on **all** Mastery Assessments.

For the EMS program, you are allowed up to **three attempts** per Mastery Assessment with the exception of the High Stakes Exam which will be **two attempts** and the Affective Mastery Assessment which is **one attempt**.

PBE Grading Scale

A = 90-100

B = 80-89

F = Below 80

If student is not able to earn 80% in the course, the student will fail the course and will be dismissed from the program. If eligible, Paramedic or AEMT students will be able to apply for advanced placement to enter into the next cohort.

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information.

****Note:** Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

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Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Emergency Medical Services - Emergency Medical Services - Advanced EMT CER2

Locations

Abilene
Brownwood
Harlingen

Modality

Hybrid
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP2237 - Emergency Procedures (2)

Semester 2
17 Total Credits



- Complete all of the following
 - Complete the following:
 - EMSP1355 - Trauma Management (3)
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - Complete all of the following
 - Complete the following:
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) (4)
 - Or Complete the following:
 - BIOL 2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL 2101 - Anatomy & Physiology I (lab) (1)
 - BIOL 2302 - Anatomy & Physiology II (lecture)
 - BIOL 2102 - Anatomy & Physiology II (lab)
 - Or Complete the following:
 - BIOL 2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL 2402 - Anatomy & Physiology II (lecture + lab) (4)

Semester 3
13 Total Credits



- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2444 - Cardiology (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2434 - Medical Emergencies (4)

Degree Plan Credits **39**

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Capstone

- Complete the following:
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)

Pre/Corequisites

- EMSP 1261 Corequisite(s): EMSP 1501, EMSP 2237
- EMSP 1501 Corequisite(s): EMSP 1261, EMSP 2237
- EMSP 2237 Corequisite(s): EMSP 1501, EMSP 1261
- EMSP 1355 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1356, EMSP 1438
- EMSP 1356 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1355, EMSP 1438
- EMSP 1438 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1355, EMSP 1356
- EMSP 2161 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2444, EMSP 2330, EMSP 2167
- EMSP 2167 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2444, EMSP 2330, EMSP 2161
- EMSP 2434 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2330, EMSP 2444, EMSP 2161, EMSP 2167
- EMSP 2330 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2161, EMSP 2167, EMSP 2444
- EMSP 2444 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2161, EMSP 2167, EMSP 2434, EMSP 2330

Emergency Medical Services - Emergency Medical Services - EMT CER1

Locations

Abilene
Brownwood
Harlingen

Modality

Hybrid
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP2237 - Emergency Procedures (2)

Semester 2
7 Total Credits



- Complete the following:
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - SCIT1407 - Applied Human Anatomy and Physiology I (4)

Degree Plan Credits **16**

Capstone

- Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)

Pre/Corequisites

- EMSP 1261 Corequisite(s): EMSP 1501, EMSP 2237
- EMSP 1501 Corequisite(s): EMSP 1261, EMSP 2237
- EMSP 2237 Corequisite(s): EMSP 1501, EMSP 1261

Emergency Medical Services - Emergency Medical Services - Paramedic CER2

Locations

Abilene
Brownwood
Harlingen

Modality

Hybrid
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)

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- EMSP1501 - Emergency Medical Technician (5)
- EMSP2237 - Emergency Procedures (2)

Semester 2

17 Total Credits



- Complete all of the following
 - Complete the following:
 - EMSP1355 - Trauma Management (3)
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - Complete 1 of the following
 - Complete the following:
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) (4)
 - Or Complete the following:
 - BIOL 2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL 2101 - Anatomy & Physiology I (lab) (1)
 - BIOL 2302 - Anatomy & Physiology II (lecture)
 - BIOL 2102 - Anatomy & Physiology II (lab)
 - Or Complete the following:
 - BIOL 2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL 2402 - Anatomy & Physiology II (lecture + lab) (4)

Semester 3

13 Total Credits



- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2444 - Cardiology (4)

Semester 4

8 Total Credits



- Complete the following:
 - EMSP2143 - Assessment Based Management (1)
 - EMSP2168 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2205 - EMS Operations (2)
 - EMSP2262 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP2206 - Emergency Pharmacology (2)

Semester 5

1 Total Credits



- Complete the following:
 - EMSP2169 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)

Degree Plan Credits **48**

Capstone

- Complete the following:
 - EMSP2143 - Assessment Based Management (1)
 - EMSP2169 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)

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Pre/Corequisites

- EMSP 1261 Corequisite(s): EMSP 1501, EMSP 2237
- EMSP 1501 Corequisite(s): EMSP 1261, EMSP 2237
- EMSP 2237 Corequisite(s): EMSP 1501, EMSP 1261
- EMSP 1355 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1356, EMSP 1438
- EMSP 1356 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1355, EMSP 1438
- EMSP 1438 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1355, EMSP 1356
- EMSP 2161 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2444, EMSP 2330, EMSP 2167
- EMSP 2167 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2444, EMSP 2330, EMSP 2161
- EMSP 2434 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2330, EMSP 2444, EMSP 2161, EMSP 2167
- EMSP 2330 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2161, EMSP 2167, EMSP 2444
- EMSP 2444 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2161, EMSP 2167, EMSP 2434, EMSP 2330
- EMSP 2143 Prerequisite(s): EMSP 2330, EMSP 2434, EMSP 2444 Corequisite(s): EMSP 2205, EMSP 2206
- EMSP 2168 Prerequisite(s): EMSP 2167
- EMSP 2205 Prerequisite(s): EMSP 2330, EMSP 2434, EMSP 2444 Corequisite(s): EMSP 2143, EMSP 2206,
- EMSP 2262 Prerequisite(s): EMSP 2161
- EMSP 2206 Prerequisite(s): EMSP 2330, EMSP 2434, EMSP 2444 Corequisite(s): EMSP 2143, EMSP 2205
- EMSP 2169 Prerequisite(s): EMSP 2168, EMSP 2262

Emergency Medical Services - Emergency Medical Services - Paramedic PBE AAS

Locations

Harlingen
Abilene
Brownwood

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete all of the following
 - Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP2237 - Emergency Procedures (2)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2
17 Total Credits



- Complete all of the following
 - Complete the following:
 - EMSP1355 - Trauma Management (3)
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - Complete 1 of the following
 - Complete the following:

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- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) (4)

- Or Complete the following:
 - BIOL 2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL 2101 - Anatomy & Physiology I (lab) (1)
 - BIOL 2302 - Anatomy & Physiology II (lecture)
 - BIOL 2102 - Anatomy & Physiology II (lab)
- Or Complete the following:
 - BIOL 2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL 2402 - Anatomy & Physiology II (lecture + lab) (4)

Semester 3

16 Total Credits



- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2444 - Cardiology (4)
 - ACGM3GED - Gen Ed Elective (3)

Semester 4

11 Total Credits



- Complete the following:
 - EMSP2143 - Assessment Based Management (1)
 - EMSP2168 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2205 - EMS Operations (2)
 - EMSP2262 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP2206 - Emergency Pharmacology (2)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5

4 Total Credits



- Complete the following:
 - EMSP2169 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - EMSP2143 - Assessment Based Management (1)
 - EMSP2169 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)

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Pre/Corequisites

- EMSP 1261 Corequisite(s): EMSP 1501, EMSP 2237
- EMSP 1501 Corequisite(s): EMSP 1261, EMSP 2237
- EMSP 2237 Corequisite(s): EMSP 1501, EMSP 1261
- EMSP 1355 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1356, EMSP 1438
- EMSP 1356 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1355, EMSP 1438
- EMSP 1438 Prerequisite(s): EMSP 1261, EMSP 1501, EMSP 2237 Corequisite(s): EMSP 1355, EMSP 1356
- EMSP 2161 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2444, EMSP 2330, EMSP 2167
- EMSP 2167 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2444, EMSP 2330, EMSP 2161
- EMSP 2434 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2330, EMSP 2444, EMSP 2161, EMSP 2167
- EMSP 2330 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2434, EMSP 2161, EMSP 2167, EMSP 2444
- EMSP 2444 Prerequisite(s): EMSP 1355, EMSP 1356, EMSP 1438 Corequisite(s): EMSP 2161, EMSP 2167, EMSP 2434, EMSP 2330
- EMSP 2143 Prerequisite(s): EMSP 2330, EMSP 2434, EMSP 2444 Corequisite(s): EMSP 2205, EMSP 2206
- EMSP 2168 Prerequisite(s): EMSP 2167
- EMSP 2205 Prerequisite(s): EMSP 2330, EMSP 2434, EMSP 2444 Corequisite(s): EMSP 2143, EMSP 2206
- EMSP 2262 Prerequisite(s): EMSP 2161
- EMSP 2206 Prerequisite(s): EMSP 2330, EMSP 2434, EMSP 2444 Corequisite(s): EMSP 2143, EMSP 2205
- EMSP 2169 Prerequisite(s): EMSP 2168, EMSP 2262

Elective Options

- Complete 1 General Education Elective as recommended by program
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

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Engineering Graphics & Design Technology

Description

Demand for drafters varies by specialization, and nothing in the industry is more exciting than mechanical/electronic drafting. No longer are the pen and pencil the standard for drafters. Today in this field, student drafters are taught Computer-Aided Drafting (CAD) and can produce industrial drawings utilized in industry to produce all types of products. All students receive instruction in both two- and three-dimensional CAD systems. Students focus on drafting applications in mechanical, electro-mechanical, process piping, printed circuit board design and many other areas of manufacturing and electronic-related drafting. Students will be exposed to the newest drawing software on the market, including AutoCad, Solid Works and Inventor.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Engineering Graphics & Design Technology - Engineering Graphics & Design Technology AAS

Locations

Online - TSTC Connect
Harlingen
Marshall
Waco
North Texas

Modality

Hybrid
Online
PBE
Dual Modality

Program Requirements

Semester 1
12 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - Complete at least 3 credits from the following:
 - DFTG1345 - Parametric Modeling and Design (3)
 - ENGR1304 - Engineering Graphics I (3 Sch version) (3)
 - Complete the following:
 - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2
12 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1329 - Electro-Mechanical Drafting (3)
 - DFTG1333 - Mechanical Drafting (3)
 - DFTG2323 - Pipe Drafting (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

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Semester 3
12 Total Credits



- Complete the following:
 - DFTG1358 - Electrical/Electronics Drafting (3)
 - DFTG2302 - Machine Drafting (3)
 - DFTG2357 - Advanced Technologies in Pipe Design and Drafting (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4
12 Total Credits



- Complete the following:
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)
 - DFTG2340 - Solid Modeling/Design (3)
 - DFTG2350 - Geometric Dimensioning and Tolerancing (3)
 - ACGM3SPH - Gen Ed Speech Elective (3)

Semester 5
12 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG2306 - Machine Design (3)
 - Complete at least 3 credits from the following:
 - DFTG1395 - Special Topics in Mechanical Drafting and Mechanical Drafting CAD/CADD (3)
 - DFTG2386 - Internship - Drafting and Design Technology/Technician, General (3)
 - Complete the following:
 - DFTG2332 - Advanced Computer-Aided Drafting (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - DFTG2306 - Machine Design (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1329, DFTG 2323 Prerequisite(s): DFTG 1309
- DFTG 1333, DFTG 2357, DFTG 2386 Prerequisite(s): DFTG 1309 or DFTG 1310
- DFTG 1358 Prerequisite(s): DFTG 1329
- DFTG 2302 Prerequisite(s): DFTG 1333
- DFTG 2335, DFTG 2340, DFTG 2350 Prerequisite(s): DFTG 2302
- DFTG 2306, DFTG 1395 Prerequisite(s): DFTG 2335
- DFTG 2332 Prerequisite(s): DFTG 2340

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Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

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Engineering Graphics & Design Technology - Engineering Graphics & Design Technology CER1

Locations

Online - TSTC Connect
Harlingen
Marshall
Waco
North Texas

Modality

Online
PBE
Dual Modality

Program Requirements

Semester 1
9 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - Complete at least 3 credits from the following:
 - DFTG1345 - Parametric Modeling and Design (3)
 - ENGR1304 - Engineering Graphics I (3 Sch version) (3)

Semester 2
9 Total Credits



- Complete the following:
 - DFTG1329 - Electro-Mechanical Drafting (3)
 - DFTG1333 - Mechanical Drafting (3)
 - DFTG2323 - Pipe Drafting (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - DFTG1333 - Mechanical Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1329, DFTG 2323 Prerequisite(s): DFTG 1309
- DFTG 1333 Prerequisite(s): DFTG 1309 or DFTG 1310

Engineering Graphics & Design Technology - Engineering Graphics & Design Technology CER2

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Modality

PBE
Dual Modality

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Program Requirements

Semester 1

9 Total Credits



- Complete all of the following
 - Complete the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1325 - Blueprint Reading and Sketching (3)
 - Complete at least 3 credits from the following:
 - DFTG1345 - Parametric Modeling and Design (3)
 - ENGR1304 - Engineering Graphics I (3 Sch version) (3)

Semester 2

9 Total Credits



- Complete the following:
 - DFTG1329 - Electro-Mechanical Drafting (3)
 - DFTG1333 - Mechanical Drafting (3)
 - DFTG2323 - Pipe Drafting (3)

Semester 3

9 Total Credits



- Complete the following:
 - DFTG1358 - Electrical/Electronics Drafting (3)
 - DFTG2302 - Machine Drafting (3)
 - DFTG2357 - Advanced Technologies in Pipe Design and Drafting (3)

Semester 4

9 Total Credits



- Complete the following:
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)
 - DFTG2340 - Solid Modeling/Design (3)
 - DFTG2350 - Geometric Dimensioning and Tolerancing (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1329, DFTG 2323 Prerequisite(s): DFTG 1309
- DFTG 1333, DFTG 2357 Prerequisite(s): DFTG 1309 or DFTG 1310
- DFTG 1358 Prerequisite(s): DFTG 1329
- DFTG 2302 Prerequisite(s): DFTG 1333
- DFTG 2335, DFTG 2340, DFTG 2350 Prerequisite(s): DFTG 2302

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Health Information Technology

Description

In the Health Information Technology program, students learn skills in collecting, analyzing, and maintaining health data, as well as billing and coding. Physicians and other health care professionals need accurate records to treat their patients, and professionals in the health information technology industry make that possible. Health information technology careers are found in a variety of settings, including health care facilities, consulting firms, government agencies, insurance companies, health care IS/IT vendors, and pharmaceutical companies, as well as many other environments. For quicker entry into the industry, a certificate program is available in Medical Office Specialist.

Students participating in practicum courses are required to purchase accident and malpractice insurance.

The Health Information Technology (HIT) program at TSTC offers flexible learning through Performance-Based Education (PBE), designed to fit your busy schedule. In PBE courses, you demonstrate mastery of course competencies through assessments. At TSTC, the mastery level for technical courses is set at 80% or higher.

To successfully complete a course, you must achieve the required mastery level **on all** Mastery Assessments. One key advantage of PBE is that, if you do not complete a course within the semester, your Mastery Assessment scores will carry over, allowing you to pick up where you left off in the next term.

For the HIT program, you are allowed up to **three attempts** per Mastery Assessment.

PBE Grading Scale:

A = 90-100

B = 80-89

F = Below 80

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information. ****Note:** Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Health Information Technology - Health Information Technology - Medical Coding & Billing Specialist CER2

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - HITT1301 - Health Data Content and Structure (3)
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - MDCA1302 - Human Disease/Pathophysiology (3)
 - ITSC1309 - Integrated Software Applications I (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - HITT1253 - Legal and Ethical Aspects of Health Information (2)
 - HITT1341 - Coding and Classification Systems (3)
 - HITT1311 - Health Information Systems (3)
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)

Semester 3

12 Total Credits



- Complete all of the following
 - Complete the following:
 - HITT1342 - Ambulatory Coding (3)
 - HITT2335 - Coding and Reimbursement Methodologies (3)
 - HITT2260 - Clinical - Health Information/Medical Records Technology/Technician (2)
 - Complete at least 4 credits from the following:
 - BIOL2402 - Anatomy & Physiology II (lecture + lab) (4)
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - HITT2260 - Clinical - Health Information/Medical Records Technology/Technician (2)

Pre/Corequisites

- HITT 1341, HITT 1342 Prerequisite(s): (HPRS 2302 or HITT 1305) Pre-corequisite MDCA 1302
- HITT 2335 Prerequisite(s): HITT 1341

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Health Information Technology - Health Information Technology - Medical Office Specialist CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - HITT1301 - Health Data Content and Structure (3)
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - MDCA1302 - Human Disease/Pathophysiology (3)
 - ITSC1309 - Integrated Software Applications I (3)

Semester 2

11 Total Credits



- Complete the following:
 - HITT1253 - Legal and Ethical Aspects of Health Information (2)
 - HITT1311 - Health Information Systems (3)
 - HITT1342 - Ambulatory Coding (3)
 - HITT1341 - Coding and Classification Systems (3)

Degree Plan Credits **23**

Capstone

- Complete the following:
 - HITT1311 - Health Information Systems (3)

Pre/Corequisites

- HITT 1341, HITT 1342 Prerequisite(s): (HPRS 2302 or HITT 1305), Pre-corequisite MDCA 1302

Health Information Technology - Health Information Technology AAS

Locations

Online - TSTC Connect

Modality

Online
PBE

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Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - HITT1301 - Health Data Content and Structure (3)
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - MDCA1302 - Human Disease/Pathophysiology (3)
 - ITSC1309 - Integrated Software Applications I (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - HITT1253 - Legal and Ethical Aspects of Health Information (2)
 - HITT1341 - Coding and Classification Systems (3)
 - HITT1311 - Health Information Systems (3)
 - Complete at least 4 credits from the following:
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)

Semester 3

13 Total Credits



- Complete all of the following
 - Complete the following:
 - HITT1342 - Ambulatory Coding (3)
 - HITT1345 - Health Care Delivery Systems (3)
 - HITT2335 - Coding and Reimbursement Methodologies (3)
 - Complete at least 4 credits from the following:
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)
 - BIOL2402 - Anatomy & Physiology II (lecture + lab) (4)

Semester 4

12 Total Credits



- Complete all of the following
 - Complete the following:
 - HITT2346 - Advanced Medical Coding (3)
 - HITT2339 - Health Information Organization and Supervision (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 5

11 Total Credits



- Complete the following:
 - HITT2249 - RHIT Competency Review (2)
 - HITT2443 - Quality Assessment and Performance Improvement (4)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - HITT2260 - Clinical - Health Information/Medical Records Technology/Technician (2)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - HITT2260 - Clinical - Health Information/Medical Records Technology/Technician (2)

Pre/Corequisites

- HITT 1341, HITT 1342 Prerequisite(s): (HPRS 2302 or HITT 1305), Pre-corequisite MDCA 1302
- HITT 2335 Prerequisite(s): HITT 1341
- HITT 2346 Prerequisite(s): HITT 1341, HITT 1342

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography (3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I (3)

Heating, Ventilation, & Air Conditioning Technology

Description

TSTC offers hands-on training to teach students in Heating, Ventilation & Air Conditioning Technology the skills needed to enter the industry. The program is backed by experienced faculty, many of whom are active members of professional organizations, such as North American Technician Excellence and Air Conditioning Contractors of America, and is guided by an advisory board of current industry members, ensuring that students get the latest training available. The laboratory facilities at TSTC include high-efficiency commercial and residential heating and air conditioning equipment, energy-efficient heat pumps, commercial refrigeration equipment, direct digital and pneumatic controls, and a 200-ton chilled water system.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Heating, Ventilation, & Air Conditioning Technology - Heating, Ventilation & Air Conditioning (HVAC) Technology - Residential Service Technician CER1

Locations

Waco
Williamson County
Harlingen
Fort Bend County
North Texas
Abilene

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)
 - HART1310 - HVAC Shop Practices and Tools (3)
 - HART1345 - Gas and Electric Heating (3)

Semester 2
15 Total Credits



- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)
 - HART2338 - Air Conditioning Installation and Startup (3)
 - HART2336 - Air Conditioning Troubleshooting (3)
 - HART2349 - Heat Pumps (3)

Degree Plan Credits **27**

Capstone

- Complete the following:
 - HART2336 - Air Conditioning Troubleshooting (3)

Pre/Corequisites

- HART 1345 Prerequisite(s): HART 1301 (Prerequisite or Corequisite)
- HART 1303 Prerequisite(s): HART 1301, HART 1307, HART 1345
- HART 1341 Prerequisite(s): HART 1301, HART 1307
- HART 2336 Prerequisite(s): HART 1303, HART 1345, HART 1341
- HART 2349 Prerequisite(s): HART 1303, HART 1341

Heating, Ventilation, & Air Conditioning Technology - Heating, Ventilation & Air Conditioning (HVAC) Technology AAS

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Locations

Waco
Williamson County
Harlingen
Fort Bend County
North Texas
Abilene

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)
 - HART1310 - HVAC Shop Practices and Tools (3)
 - HART1345 - Gas and Electric Heating (3)

Semester 2
12 Total Credits



- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)
 - HART2342 - Commercial Refrigeration (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3
12 Total Credits



- Complete the following:
 - HART2331 - Advanced Electricity for HVAC (3)
 - HART2336 - Air Conditioning Troubleshooting (3)
 - HART2341 - Commercial Air Conditioning (3)
 - HART2349 - Heat Pumps (3)

Semester 4
12 Total Credits



- Complete the following:
 - HART2343 - Industrial Air Conditioning (3)
 - HART2345 - Residential Air Conditioning Systems Design (3)
 - ENGL1301 - Composition I (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5
12 Total Credits



- Complete the following:
 - HART2334 - Advanced Air Conditioning Controls (3)
 - HART2358 - Testing, Adjusting, and Balancing HVAC Systems (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - HART2345 - Residential Air Conditioning Systems Design (3)

Pre/Corequisites

- Complete all of the following
 - HART 1345 Prerequisite(s): HART 1301 (Pre or Co)
 - HART 1303 Prerequisite(s): HART 1301, HART 1307, HART 1345
 - HART 1341 Prerequisite(s): HART 1301, HART 1307
 - HART 2342 Prerequisite(s): HART 1301, HART 1307
 - HART 2331 Prerequisite(s): HART 1303
 - HART 2336 Prerequisite(s): HART 1303, HART 1345, HART 1341
 - HART 2341 Prerequisite(s): HART 1303, HART 1341
 - HART 2349 Prerequisite(s): HART 1303, HART 1341
 - HART 2343 Prerequisite(s): HART 2336, HART 2331, HART 2341
 - HART 2345 Prerequisite(s): HART 2336, HART 2349
 - HART 2334 Prerequisite(s): HART 2336
 - HART 2358 Prerequisite(s): HART 2331

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)

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- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy (3)
- PHIL1304 - Introduction to World Religions (3)
- PHIL2303 - Introduction to Formal Logic (3)
- PHIL2306 - Introduction to Ethics (3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I (3)
- ENGL1302 - Composition II (3)
- ENGL2311 - Technical & Business Writing (3)
- HIST2321 - World Civilizations I (3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication (3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I (3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions (3)
- PHIL2306 - Introduction to Ethics (3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics) (3)
- GOVT2306 - Texas Government (Texas constitution & topics) (3)
- HIST1301 - United States History I (3)
- HIST1302 - United States History II (3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development (3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture) (3)
- BIOL1307 - Biology for Science Majors II (3)
- BIOL1308 - Biology for Non-Science Majors I (3)
- BIOL1309 - Biology for Non-Science Majors II (3)
- BIOL2301 - Anatomy & Physiology I (lecture) (3)
- BIOL2302 - Anatomy & Physiology II (lecture) (3)
- CHEM1305 - Introductory Chemistry I (lecture) (3)
- CHEM1311 - General Chemistry I (lecture) (3)
- CHEM1412 - General Chemistry II (4)
- MATH1314 - College Algebra (3 SCH version) (3)
- MATH1316 - Plane Trigonometry (3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)
- MATH1342 - Elementary Statistical Methods (3)
- PHYS1315 - Physical Science I (lecture) (3)
- PHYS1315 - Physical Science I (lecture) (3)

Heating, Ventilation, & Air Conditioning Technology - Heating, Ventilation & Air Conditioning (HVAC) Technology CER1

Locations

Waco
Williamson County
Harlingen
Fort Bend County
North Texas
Abilene

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)
 - HART1310 - HVAC Shop Practices and Tools (3)
 - HART1345 - Gas and Electric Heating (3)

Semester 2
12 Total Credits



- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)
 - HART2338 - Air Conditioning Installation and Startup (3)
 - HART2342 - Commercial Refrigeration (3)

Semester 3
12 Total Credits



- Complete the following:
 - HART2331 - Advanced Electricity for HVAC (3)
 - HART2336 - Air Conditioning Troubleshooting (3)
 - HART2341 - Commercial Air Conditioning (3)
 - HART2349 - Heat Pumps (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - HART2336 - Air Conditioning Troubleshooting (3)

Pre/Corequisites

- HART 1345 Prerequisite(s): HART 1301 (Prerequisite or Corequisite)
- HART 1303 Prerequisite(s): HART 1301, HART 1307, HART 1345
- HART 1341, HART 2342 Prerequisite(s): HART 1301, HART 1307
- HART 2331 Prerequisite(s): HART 1303
- HART 2336 Prerequisite(s): HART 1303, HART 1345, HART 1341
- HART 2341, HART 2349 Prerequisite(s): HART 1303, HART 1341

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Heating, Ventilation, & Air Conditioning Technology - Heating, Ventilation & Air Conditioning (HVAC) Technology CER2

Locations

Waco
Williamson County
Harlingen
Fort Bend County
North Texas
Abilene

Modality

Hybrid
PBE

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)
 - HART1310 - HVAC Shop Practices and Tools (3)
 - HART1345 - Gas and Electric Heating (3)

Semester 2
12 Total Credits



- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)
 - HART2338 - Air Conditioning Installation and Startup (3)
 - HART2342 - Commercial Refrigeration (3)

Semester 3
12 Total Credits



- Complete the following:
 - HART2331 - Advanced Electricity for HVAC (3)
 - HART2336 - Air Conditioning Troubleshooting (3)
 - HART2341 - Commercial Air Conditioning (3)
 - HART2349 - Heat Pumps (3)

Semester 4
12 Total Credits



- Complete the following:
 - HART2343 - Industrial Air Conditioning (3)
 - HART2345 - Residential Air Conditioning Systems Design (3)
 - HART2334 - Advanced Air Conditioning Controls (3)
 - HART2358 - Testing, Adjusting, and Balancing HVAC Systems (3)

Degree Plan Credits **48**

Capstone

- Complete the following:
 - HART2345 - Residential Air Conditioning Systems Design (3)

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Pre/Corequisites

- HART 1345 Prerequisite(s): HART 1301 (Prerequisite or Corequisite)
- HART 1303 Prerequisite(s): HART 1301, HART 1307, HART 1345
- HART 1341 Prerequisite(s): HART 1301, HART 1307
- HART 2342 Prerequisite(s): HART 1301, HART 1307
- HART 2331 Prerequisite(s): HART 1303
- HART 2336 Prerequisite(s): HART 1303, HART 1345, HART 1341
- HART 2341 Prerequisite(s): HART 1303, HART 1341
- HART 2349 Prerequisite(s): HART 1303, HART 1341
- HART 2343 Prerequisite(s): HART 2336, HART 2331, HART 1341
- HART 2345 Prerequisite(s): HART 2336, HART 2349
- HART 2334 Prerequisite(s): HART 2336
- HART 2358 Prerequisite(s): HART 2331

Instrumentation Technology

Description

Instrumentation is the science of measurement and control, including the variables of process control such as pressure, level, temperature, and flow rates. These variables are used in all automated processes in power generation, oil refineries, chemical plants, food processing, pharmaceuticals, cosmetics, building environmental control, and more. Instrumentation is a vital part of any production or manufacturing plant, and it is the job of an instrument technician to keep these systems running. TSTC's Instrumentation Technology graduates are field-ready and qualified to go to work with minimum on-the-job training.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Instrumentation Technology - Instrumentation Technology AAS

Locations

Waco

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - DFTG1313 - Drafting for Specific Occupations (3)
 - INTC1305 - Introduction to Instrumentation (3)
 - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2

12 Total Credits



- Complete all of the following
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - INTC1357 - AC/DC Motor Control (3)
 - INTC1341 - Principles of Automatic Control (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 3

12 Total Credits



- Complete the following:
 - INTC1355 - Unit Operations (3)
 - INTC2336 - Distributed Control and Programmable Logic (3)
 - RBTC1301 - Programmable Logic Controllers (3)
 - PHYS1315 - Physical Science I (lecture) (3)

Semester 4

12 Total Credits



- Complete the following:
 - INTC1350 - Digital Measurement and Controls (3)
 - INTC1356 - Instrumentation Calibration (3)
 - INTC2333 - Instrumentation Systems Installation (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5

12 Total Credits



- Complete the following:
 - INTC1348 - Analytical Instrumentation (3)
 - INTC2310 - Principles of Industrial Measurements II (3)
 - INTC1391 - Special Topics in Instrumentation Technology/Technician (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - INTC1391 - Special Topics in Instrumentation Technology/Technician (3)

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Pre/Corequisites

- INTC 1305 Prerequisite(s): CETT 1303 (Prerequisite or Corequisite)
- CETT 1305 Prerequisite(s): CETT 1303
- ELPT 1341 Prerequisite(s): INTC 1305
- INTC 1355 Prerequisite(s): INTC 1341
- INTC 2336 Prerequisite(s): RBTC 1301 (Prerequisite or Corequisite)
- RBTC 1301 Prerequisite(s): ELPT 1341 or INTC 1357
- INTC 1350 Prerequisite(s): RBTC 1301, INTC1355
- INTC 1356, INTC 2333, INTC 2310 Prerequisite(s): INTC 1355
- INTC 1348 Prerequisite(s): INTC 1341
- INTC 1391 Prerequisite(s): INTC 2333

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography (3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I (3)

Mechatronics Technology

Description

Because industrial applications are becoming increasingly multidisciplinary, today's technicians need skills that cross a variety of disciplines. Mechatronics courses combine various disciplines to teach students a holistic approach to developing solutions for engineering applications. Skills found under the Mechatronics Technology umbrella include practical knowledge in the integration of electrical systems, fluid power, electronics, computer controls, programmable logic controllers, instrumentation, robotics and information technology.

Money-Back Guarantee

All TSTC students participating in the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1100 Foundations for Career Success. Satisfactory grade completion of HIRE 1100 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Occupational Safety & Environmental Compliance Technology

Description

The Occupational Safety and Environmental Compliance (OSEC) program offers in-depth study of Occupational Safety and Health Administration (OSHA) regulations, Environmental Protection Agency (EPA) regulations and other pertinent federal, state and local standards. Safety and environmental compliance professionals are responsible for interpreting and implementing regulations, policies and procedures, as well as enforcing government safety and environmental mandates. Compliance professionals use the knowledge gained through the OSEC program to develop, improve and manage a company's safety and environmental system to prevent injuries, reduce accidents and protect the environment while minimizing the impact to economic progress.

The Occupational Safety and Environmental Compliance curriculum includes instruction on hazardous waste operations, compliance with regulatory agencies, including submitting regulatory reports and documents, conducting safety training, and performing inspections and compliance audits. Students also learn how to develop OSHA- and EPA-related programs such as hazard communication, permit-required confined space entry, respiratory protection, lockout/tagout, environmental sampling plans, stormwater pollution prevention plans, phase I site assessments, and emergency response plans. Students will learn to anticipate, recognize, evaluate, and control industrial health hazards to help build and maintain a safe work culture and protect the environment.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Occupational Safety & Environmental Compliance Technology - Occupational Safety & Environmental Compliance Technology - Environmental Compliance CER1

Locations

Abilene
Fort Bend County
Waco

Modality

Hybrid
PBE

Program Requirements

Semester 1
14 Total Credits



- Complete the following:
 - EPCT1243 - Treatment, Remediation, and Disposal Techniques (2)
 - EPCT1205 - Environmental Regulations Overview (2)
 - OSH1305 - OSHA Regulations - Construction Industry (3)
 - EPCT2337 - Site Assessment (3)
 - OSH12401 - OSHA Regulations - General Industry (4)

Semester 2
12 Total Credits



- Complete the following:
 - EPCT2331 - Industrial Hygiene Applications (3)
 - EPCT1344 - Environmental Sampling and Analysis (3)
 - EPCT1301 - Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics (3)
 - OSH12320 - Safety Training Presentation Techniques (3)

Degree Plan Credits **26**

Capstone

- Complete the following:
 - OSH12320 - Safety Training Presentation Techniques (3)

Occupational Safety & Environmental Compliance Technology - Occupational Safety & Environmental Compliance Technology - Occupational Safety CER1

Locations

Abilene
Fort Bend County
Waco

Modality

Hybrid
PBE

Program Requirements

Semester 1
14 Total Credits



- Complete the following:
 - EPCT1307 - Introduction to Environmental Safety and Health (3)
 - OSHT1305 - OSHA Regulations - Construction Industry (3)
 - OSHT2401 - OSHA Regulations - General Industry (4)
 - OSHT1209 - Physical Hazards Control (2)
 - OSHT2209 - Safety Program Management (2)

Semester 2
12 Total Credits



- Complete the following:
 - EPCT1301 - Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics (3)
 - OSHT2370 - Safety and Health First Aid Certification (3)
 - OSHT2388 - Internship - Occupational Safety and Health Technology/Technician (3)
 - OSHT2320 - Safety Training Presentation Techniques (3)

Degree Plan Credits **26**

Capstone

- Complete the following:
 - OSHT2320 - Safety Training Presentation Techniques (3)

Occupational Safety & Environmental Compliance Technology - Occupational Safety & Environmental Compliance Technology AAS

Locations

Waco
Fort Bend County
Abilene

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

11 Total Credits



- Complete all of the following
 - Complete the following:
 - EPCT1243 - Treatment, Remediation, and Disposal Techniques (2)
 - EPCT1307 - Introduction to Environmental Safety and Health (3)
 - OSH1305 - OSHA Regulations - Construction Industry (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

13 Total Credits



- Complete the following:
 - OSH1313 - Accident Prevention, Inspection, & Investigation (3)
 - ITSC1309 - Integrated Software Applications I (3)
 - OSH2401 - OSHA Regulations - General Industry (4)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 3

12 Total Credits



- Complete the following:
 - EPCT2331 - Industrial Hygiene Applications (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - EPCT1344 - Environmental Sampling and Analysis (3)
 - ACGM3GED - Gen Ed Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - EPCT1205 - Environmental Regulations Overview (2)
 - EPCT2337 - Site Assessment (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - OSH1209 - Physical Hazards Control (2)
 - OSH2209 - Safety Program Management (2)

Semester 5

12 Total Credits



- Complete the following:
 - EPCT1301 - Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics (3)
 - OSH2370 - Safety and Health First Aid Certification (3)
 - OSH2388 - Internship - Occupational Safety and Health Technology/Technician (3)
 - OSH2320 - Safety Training Presentation Techniques (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - OSH2320 - Safety Training Presentation Techniques (3)

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Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography(3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems(3)
 - SOCI2319 - Minority Studies I(3)
- Complete 1 General Education Elective as recommended by program
 - Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

Physics

Description

The Associate of Science degree in Physics is intended for students planning to transfer to a college or university in order to obtain a bachelor's degree in physics or a physics-related discipline, such as astronomy, geophysics or any engineering field.

Plumbing & Pipefitting Technology

Description

Plumbing & Pipefitting Technology is designed to help students learn the ins and outs of this important, well-paying field. This specialization can help you get on your way in a hurry through a one-year intensive training program to help you build the skill base needed to succeed in the industry. The Plumbing & Pipefitting Technology program's certificate progresses from basic to advanced coursework in plumbing, piping, construction, fabrication, and more. At TSTC, your college credits can count toward the hours needed to obtain a state license.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Plumbing & Pipefitting Technology - Plumbing & Pipefitting Technology - Journeyman AAS

Locations

Abilene
Harlingen
Waco

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - PFPB1306 - Basic Blueprint Reading for Plumbers (3)
 - PFPB1321 - Plumbing Maintenance and Repair (3)
 - PFPB2309 - Residential Construction Plumbing I (3)
 - PFPB2315 - Intermediate Technologies for Piping Trades (3)

Semester 2

12 Total Credits



- Complete the following:
 - PFPB1347 - Backflow Prevention (3)
 - PFPB2343 - Advanced Pipe Practices (3)
 - PFPB2349 - Field Measuring, Sketching, and Layout (3)
 - OSH1305 - OSHA Regulations - Construction Industry (3)

Semester 3

12 Total Credits



- Complete the following:
 - PFPB1323 - Plumbing Codes I (3)
 - PFPB1682 - Cooperative Education - Plumbing Technology/Plumber (6)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4

12 Total Credits



- Complete all of the following
 - Complete the following:
 - PFPB2336 - Commercial Construction and Fixture Setting (3)
 - PFPB2357 - Plumbing Codes II (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)
 - Complete the following:
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 5

12 Total Credits



- Complete the following:
 - PFPB1319 - Commercial Plumbing I (3)
 - PFPB2345 - Residential Construction Plumbing II (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - PFPB2357 - Plumbing Codes II (3)

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Pre/Corequisites

- PFPB 1319 Prerequisite(s): PFPB 1323, PFPB 2349, PFPB 1306
- PFPB 2345 Prerequisite(s): PFPB 2309

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography (3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I(3)
- ENGL1302 - Composition II(3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics (3)

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- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

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Plumbing & Pipefitting Technology - Plumbing & Pipefitting Technology - Tradesman CER1

Locations

Abilene
Harlingen
Waco

Modality

Hybrid

Program Requirements

Semester 1
12 Total Credits



- Complete the following:
 - PFPB1306 - Basic Blueprint Reading for Plumbers (3)
 - PFPB1321 - Plumbing Maintenance and Repair (3)
 - PFPB2309 - Residential Construction Plumbing I (3)
 - PFPB2315 - Intermediate Technologies for Piping Trades (3)

Semester 2
12 Total Credits



- Complete the following:
 - PFPB1347 - Backflow Prevention (3)
 - PFPB2343 - Advanced Pipe Practices (3)
 - PFPB2349 - Field Measuring, Sketching, and Layout (3)
 - OSH1305 - OSHA Regulations - Construction Industry (3)

Semester 3
9 Total Credits



- Complete the following:
 - PFPB1323 - Plumbing Codes I (3)
 - PFPB1682 - Cooperative Education - Plumbing Technology/Plumber (6)

Degree Plan Credits **33**

Capstone

- Complete the following:
 - PFPB1682 - Cooperative Education - Plumbing Technology/Plumber (6)

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Pre Allied Health

Description

This program establishes a robust foundation for your journey toward advanced education and training in various allied health fields. Whether you need prerequisite coursework for a competitive program or are exploring the right health care career path, the Pre-Allied Health program is designed to support your goals.

Grading Scale:

A = 90-100

B = 80-89

C = 70-79

D = 60-69

F = Below 60

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information.

Note: Programs in health sciences often have specific policies for accepting academic courses, as detailed in their application documentation or program handbook. For instance, some biology courses may expire after five years, and certain programs might require a minimum grade of B for acceptance.

Pre Allied Health - Pre-Allied Health CER2

Locations

Online - TSTC Connect

Modality

Online

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Program Requirements

Semester 1

13 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)
 - Complete the following:
 - ENGL1301 - Composition I (3)
 - PSYC2314 - Lifespan Growth & Development (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 2

14 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - BIOL2402 - Anatomy & Physiology II (lecture + lab) (4)
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)
 - Complete at least 4 credits from the following:
 - BIOL2420 - Microbiology for Non-Science Majors (lecture + lab) (4)
 - BIOL2320 - Microbiology for Non-Science Majors (lecture) (3)
 - BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab) (1)
 - Complete the following:
 - PSYC2301 - General Psychology (3)
 - ACGM3SPH - Gen Ed Speech Elective (3)

Semester 3

7 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - CHEM1405 - Introductory Chemistry I (4)
 - CHEM1305 - Introductory Chemistry I (lecture) (3)
 - CHEM1105 - Introductory Chemistry Laboratory I (lab) (1)
 - Complete the following:
 - HPRS2302 - Medical Terminology for Allied Health (3)

Degree Plan Credits **34**

Capstone

- Complete the following:
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)

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Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
- SPCH1315 - Public Speaking(3)
- SPCH1318 - Interpersonal Communication(3)
- SPCH1321 - Business & Professional Communication(3)

Precision Machining Technology

Description

Persons interested in becoming machinists should be mechanically inclined and have good problem-solving abilities. They must be able to work independently and perform highly precise and accurate work that requires concentration and physical effort. Precision Machining Technology at TSTC guides students through a series of machine operation courses to develop and challenge their skills using conventional and computer numerical control (CNC) machines. Students also learn about the various materials used in today's manufacturing industry. Machinists use the following machines: horizontal and vertical mills, engine lathes, drill presses, saws, heat treat furnaces, and surface and pedestal grinders. Students learn to program and operate computer-aided machines, such as CNC mills and lathes, and learn related skills, such as precision measurement, blueprint reading and the heat treatment of metals. A capstone course challenges students' creativity by providing them with the opportunity to design and build complex machinery.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

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Precision Machining Technology - Precision Machining Technology - CNC Machine Operator CER1

Locations

Waco
Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Modality

Hybrid
PBE

Program Requirements

Semester 1
13 Total Credits



- Complete the following:
 - MCHN1302 - Print Reading for Machining Trades (3)
 - MCHN1320 - Precision Tools and Measurement (3)
 - MCHN1438 - Basic Machine Shop I (4)
 - MCHN1343 - Machine Shop Mathematics (3)

Semester 2
13 Total Credits



- Complete the following:
 - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)
 - MCHN1454 - Intermediate Machining II (4)
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)
 - MCHN2344 - Computerized Numerical Control Programming (3)

Degree Plan Credits **26**

Capstone

- Complete the following:
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)

Pre/Corequisites

- MCHN 1326 Prerequisite(s): MCHN 1302
- MCHN 1454 Prerequisite(s): MCHN 1438
- MCHN 2303 Prerequisite(s): MCHN 2344 Corequisite
- MCHN 2344 Prerequisite(s): MCHN 1302, MCHN 2303 Corequisite

Precision Machining Technology - Precision Machining Technology AAS

Locations

Waco
Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

16 Total Credits



- Complete the following:
 - MCHN1302 - Print Reading for Machining Trades (3)
 - MCHN1320 - Precision Tools and Measurement (3)
 - MCHN1438 - Basic Machine Shop I (4)
 - MATH1314 - College Algebra (3 SCH version) (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 2

16 Total Credits



- Complete the following:
 - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)
 - MCHN1454 - Intermediate Machining II (4)
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)
 - MCHN2344 - Computerized Numerical Control Programming (3)
 - MATH1316 - Plane Trigonometry (3)

Semester 3

14 Total Credits



- Complete all of the following
 - Complete the following:
 - MCHN2435 - Advanced CNC Machining (4)
 - MCHN2441 - Advanced Machining I (4)
 - ENGL1301 - Composition I (3)
 - Complete at least 3 credits from the following:
 - MCHN2338 - Advanced Computer-Aided Manufacturing (CAM) (3)
 - PLTC1343 - Mold Design and Maintenance (3)

Semester 4

14 Total Credits



- Complete all of the following
 - Complete the following:
 - ENTC2310 - Machine Design (3)
 - MCHN2445 - Advanced Machining II (4)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - Complete at least 4 credits from the following:
 - MCHN2447 - Specialized Tools and Fixtures (4)
 - MCHN1493 - Special Topics in Tool and Die Maker/Technologist (4)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - ENTC2310 - Machine Design (3)

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Pre/Corequisites

- MCHN 1326 Prerequisite(s): MCHN 1302
- MCHN 1454 Prerequisite(s): MCHN 1438
- MCHN 2303 Prerequisite(s): MCHN 2344 Corequisite
- MCHN 2344 Prerequisite(s): MCHN 1302, MCHN 2303 Corequisite
- MCHN 2435 Prerequisite(s): MCHN 2303
- MCHN 2441, PLTC 1343, MCHN 2447 Prerequisite(s): MCHN 1454
- MCHN 2338 Prerequisite(s): MCHN 1326
- ENTC 2310 Prerequisite(s): MCHN 1326, MCHN 2341 or MCHN 2441 (Prerequisite or Corequisite)
- MCHN 2445 Prerequisite(s): MCHN 2441
- MCHN 1493 Prerequisite(s): PLTC 1343

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology (3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics (3)
 - ECON2302 - Principles of Microeconomics (3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography (3)
 - PSYC1100 - Learning Framework (1)
 - PSYC2301 - General Psychology (3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology (3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

Precision Machining Technology - Precision Machining Technology CER2

Locations

Waco
Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

13 Total Credits



- Complete the following:
 - MCHN1302 - Print Reading for Machining Trades (3)
 - MCHN1320 - Precision Tools and Measurement (3)
 - MCHN1438 - Basic Machine Shop I (4)
 - MCHN1343 - Machine Shop Mathematics (3)

Semester 2

13 Total Credits



- Complete the following:
 - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)
 - MCHN1454 - Intermediate Machining II (4)
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)
 - MCHN2344 - Computerized Numerical Control Programming (3)

Semester 3

11 Total Credits



- Complete all of the following
 - Complete the following:
 - MCHN2435 - Advanced CNC Machining (4)
 - MCHN2441 - Advanced Machining I (4)
 - Complete at least 3 credits from the following:
 - MCHN2338 - Advanced Computer-Aided Manufacturing (CAM) (3)
 - PLTC1343 - Mold Design and Maintenance (3)

Semester 4

11 Total Credits



- Complete all of the following
 - Complete the following:
 - ENTC2310 - Machine Design (3)
 - MCHN2445 - Advanced Machining II (4)
 - Complete at least 4 credits from the following:
 - MCHN2447 - Specialized Tools and Fixtures (4)
 - MCHN1493 - Special Topics in Tool and Die Maker/Technologist (4)

Degree Plan Credits **48**

Capstone

- Complete the following:
 - MCHN2441 - Advanced Machining I (4)

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Pre/Corequisites

- MCHN 1326 Prerequisite(s): MCHN 1302, MCHN 2303
- MCHN 1454 Prerequisite(s): MCHN 1438
- MCHN 2303 Corequisite(s): MCHN 2344
- MCHN 2344 Prerequisite(s): MCHN 1302, MCHN 2303 (Corequisite)
- MCHN 2435 Prerequisite(s): MCHN 2303
- MCHN 2441 Prerequisite(s): MCHN 1454
- MCHN 2338 Prerequisite(s): MCHN 1326
- PLTC 1343, Prerequisite(s): MCHN 1454
- ENTC 2310 Prerequisite(s): MCHN 1326, MCHN 2341 or MCHN 2441 (Prerequisite or Corequisite)
- MCHN 2445 Prerequisite(s): MCHN 2441
- MCHN 2447 Prerequisite(s): MCHN 1454 (Prerequisite or Corequisite)
- MCHN 1493 Prerequisite(s): PLTC 1343

Process Operations

Description

A process technician is a key member of a team responsible for planning, analyzing and controlling the production of products, from the acquisition of raw materials through the production and distribution of products to customers in a variety of process industries. Process operations technicians are responsible for efficient and safe operation of all process equipment within the plant, monitoring of all process and utility systems and equipment to ensure they operate within their proper parameters, collection of product and utility samples and performing lab analysis to ensure products meet specifications, preparation of equipment and systems for maintenance activities and more. Process operations students will learn the function and use of pumps, tanks, valves and instrumentation associated with various process systems, knowledge of process variables, indicators and controllers and troubleshooting tools and steps to solve problems in a simple process system. They will be able to demonstrate the proper use of safety, health and environmental equipment.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Process Operations - Process Operations AAS

Locations

Marshall

Modality

Hybrid
PBE

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

16 Total Credits



- Complete all of the following
 - Complete the following:
 - PTAC1302 - Introduction to Process Technology (3)
 - PTAC1308 - Safety, Health, and Environment I (3)
 - PTAC1410 - Process Technology I - Equipment (4)
 - ACGM3GED - Gen Ed Elective (3)
 - Complete at least 3 credits from the following:
 - MATH1314 - College Algebra (3 SCH version) (3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)

Semester 2

15 Total Credits



- Complete the following:
 - PTRT1317 - Natural Gas Processing I (3)
 - SCIT1318 - Applied Physics (3)
 - PTAC1332 - Process Instrumentation I (3)
 - PTAC2314 - Principles of Quality (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 3

14 Total Credits



- Complete the following:
 - PTRT2323 - Natural Gas Production (3)
 - PTAC2420 - Process Technology II - Systems (4)
 - PTAC2446 - Process Troubleshooting (4)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4

15 Total Credits



- Complete all of the following
 - Complete the following:
 - SCIT1414 - Applied General Chemistry I (4)
 - PTAC1454 - Industrial Processes (4)
 - PTAC2438 - Process Technology III - Operations (4)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - PTAC2446 - Process Troubleshooting (4)
 - PTAC2438 - Process Technology III - Operations (4)

Pre/Corequisites

- PTAC 1332, PTAC 2420 Prerequisite(s): PTAC 1410
- PTAC 2314, PTAC 1454 Prerequisite(s): PTAC 1302
- PTAC 2446 Prerequisite(s): PTAC 1332, PTAC 2420 (Corequisite)
- PTAC 2438 Prerequisite(s): PTAC 1332, PTAC 2420, PTAC 2446

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

- Complete 1 General Education Elective as recommended by program

Process Operations - Process Operations CER2

Locations

Marshall

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

13 Total Credits



- Complete all of the following
 - Complete the following:
 - PTAC1302 - Introduction to Process Technology (3)
 - PTAC1308 - Safety, Health, and Environment I (3)
 - PTAC1410 - Process Technology I - Equipment (4)
 - Complete at least 1 of the following:
 - MATH1314 - College Algebra (3 SCH version) (3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)

Semester 2

12 Total Credits



- Complete the following:
 - PTRT1317 - Natural Gas Processing I (3)
 - PTAC1332 - Process Instrumentation I (3)
 - PTAC2314 - Principles of Quality (3)
 - SCIT1318 - Applied Physics (3)

Semester 3

11 Total Credits



- Complete the following:
 - PTRT2323 - Natural Gas Production (3)
 - PTAC2420 - Process Technology II - Systems (4)
 - PTAC2446 - Process Troubleshooting (4)

Semester 4

12 Total Credits



- Complete the following:
 - PTAC1454 - Industrial Processes (4)
 - PTAC2438 - Process Technology III - Operations (4)
 - SCIT1414 - Applied General Chemistry I (4)

Degree Plan Credits **48**

Capstone

- Complete the following:
 - PTAC2446 - Process Troubleshooting (4)
 - PTAC2438 - Process Technology III - Operations (4)

Pre/Corequisites

- PTAC 1332, PTAC 2420 Prerequisite(s): PTAC 1410
- PTAC 2314, PTAC 1454 Prerequisite(s): PTAC 1302
- PTAC 2446 Prerequisite(s): PTAC-1332, PTAC 2420 (Corequisite)
- PTAC 2438 Prerequisite(s): PTAC 1332, PTAC 2420, PTAC 2446

Solar Energy Technology

Description

Harnessing the sun's power to convert it into electricity is not a new concept, but only in recent years has the technology really taken off. The rising cost of fossil fuels on both the pocketbook and the environment has spurred interest in renewable resources such as solar energy. Perhaps that's why the future looks so bright for those in the solar energy industry. TSTC is one of just a handful of colleges in the nation to offer an associate degree in Solar Energy Technology. TSTC students get access to a live learning lab on the 216-kilowatt solar roof array of TSTC's Electronics Center, along with designing and building multiple solar arrays consisting of various wattages and capabilities with some of the most up to date solar products on the market. Combined with knowledgeable, experienced staff and an advisory committee of solar industry professionals, you can get the education and experience you need for a successful, exciting career in Solar Energy Technology.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Solar Energy Technology - Solar Energy Technology AAS

Locations

Waco

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

15 Total Credits



- Complete the following:
 - ELPT1311 - Basic Electrical Theory (3)
 - ELPT1315 - Electrical Calculations I (3)
 - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
 - SOLR1372 - Foundations of Solar Photovoltaic Power Generation (3)
 - SOLR2374 - Photovoltaic Systems & Components (3)

Semester 2

15 Total Credits



- Complete the following:
 - ELPT1325 - National Electrical Code I (3)
 - OSH1305 - OSHA Regulations - Construction Industry (3)
 - SOLR2375 - Solar System Design, Installation, Troubleshooting & Repair (3)
 - SOLR2376 - Special Projects in Solar Energy Systems (3)
 - SOLR2377 - Codes for Alternative Energy, Efficiency & Conservation (3)

Semester 3

15 Total Credits



- Complete the following:
 - ELPT1329 - Residential Wiring (3)
 - ELPT2315 - Electrical Calculations II (3)
 - ELPT2337 - Electrical Planning and Estimating (3)
 - ACGM3GED - Gen Ed Elective (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

15 Total Credits



- Complete all of the following
 - Complete the following:
 - ELPT1345 - Commercial Wiring (3)
 - ELPT1357 - Industrial Wiring (3)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - SOLR2375 - Solar System Design, Installation, Troubleshooting & Repair (3)
 - SOLR2376 - Special Projects in Solar Energy Systems (3)

Pre/Corequisites

- Complete all of the following
 - SOLR 2375, SOLR 2376, SOLR 2377 Prerequisite(s): SOLR 1371, SOLR 1372, SOLR 2374
 - ELPT 2315 Prerequisite(s): ELPT 1315
 - ELPT 2337 Prerequisite(s) or Corequisite(s): ELPT 1311
 - ELPT 1345, ELPT 1357 Prerequisite(s) or Corequisite(s): ELPT 1311, Prerequisite(s): ELPT 1329

Elective Options

- Complete at least courses from the following:

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- Complete at least courses from the following:



General Education Electives

- ENGL1301 - Composition I (3)
 - ENGL1302 - Composition II (3)
 - ENGL2311 - Technical & Business Writing(3)
 - HIST2321 - World Civilizations I(3)
 - SPCH1315 - Public Speaking (3)
 - SPCH1318 - Interpersonal Communication (3)
 - SPCH1321 - Business & Professional Communication(3)
 - ARTS1301 - Art Appreciation (3)
 - ENGL2321 - British Literature (3)
 - ENGL2326 - American Literature (single-Semester Course) (3)
 - ENGL2341 - Forms of Literature (3)
 - HUMA1301 - Introduction to Humanities I(3)
 - HUMA2323 - World Cultures (3)
 - MUSI1306 - Music Appreciation (3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ECON2301 - Principles of Macroeconomics (3)
 - ECON2302 - Principles of Microeconomics (3)
 - GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - PSYC2301 - General Psychology (3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - SOCI1301 - Introduction to Sociology (3)
 - BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1412 - General Chemistry II(4)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies (3)
 - HUMA2323 - World Cultures (3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation (3)
 - ARTS2326 - Sculpture I (3)
 - ARTS2326 - Sculpture I (3)
 - MUSI1306 - Music Appreciation (3)
- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)

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- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

Solar Energy Technology - Solar Energy Technology CER1

Locations

Waco

Modality

Hybrid

Program Requirements

Semester 1

15 Total Credits



- Complete the following:
 - ELPT1311 - Basic Electrical Theory (3)
 - ELPT1315 - Electrical Calculations I (3)
 - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
 - SOLR1372 - Foundations of Solar Photovoltaic Power Generation (3)
 - SOLR2374 - Photovoltaic Systems & Components (3)

Semester 2

15 Total Credits



- Complete the following:
 - ELPT1325 - National Electrical Code I (3)
 - OSH1305 - OSHA Regulations - Construction Industry (3)
 - SOLR2375 - Solar System Design, Installation, Troubleshooting & Repair (3)
 - SOLR2376 - Special Projects in Solar Energy Systems (3)
 - SOLR2377 - Codes for Alternative Energy, Efficiency & Conservation (3)

Degree Plan Credits **30**

Capstone

- Complete the following:
 - SOLR2375 - Solar System Design, Installation, Troubleshooting & Repair (3)
 - SOLR2376 - Special Projects in Solar Energy Systems (3)

Pre/Corequisites

- SOLR 2375, SOLR 2376, SOLR 2377 Prerequisite(s): SOLR 1371, SOLR 1372, SOLR 2374

Surgical Technology

2026-2027 Catalog & Student Handbook

Description

The Surgical Technology program is designed to prepare entry-level Surgical Technologists who are competent in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains to enter the profession. The primary responsibilities include creating and maintaining a safe operating room environment through aseptic surgical techniques and assisting surgeons. The professional competencies developed through the program require manual dexterity to handle instruments efficiently while maintaining conscientiousness and emotional stability to handle the demanding environment of the operating room.

The program is structured through a hybrid format, combining online learning for didactic delivery with face-to-face lab training in skills and high-fidelity simulation. The curriculum emphasizes professionalism, teamwork and a commitment to continuous learning to develop competent and confident surgical technologists. Students gain hands-on experience during clinical instruction in hospital settings and must obtain medical insurance. TSTC covers accidentals, needlestick and malpractice insurance for the duration of the program.

The student grading policy used in assigning a semester grade is as follows:

A = 93-100%

B = 86-92%

C = 78-85%

D = 70-77%

F = 69% and below

A student must receive a "C" or better in all courses to be retained in and graduate from the program. To receive a passing grade of "C" or better in any Surgical Technology course, a student must maintain a 78 or higher grade average in didactic classes and have a satisfactory clinical evaluation based on the standards stated on the clinical evaluation form.

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information. **Note: Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Surgical Technology - Surgical Technology - Sterile Processing OSA

Locations

Harlingen

Modality

Hybrid

Program Requirements

Semester 1

12 Total Credits



- Complete the following:
 - SRGT1405 - Introduction to Surgical Technology (4)
 - SRGT1409 - Fundamentals of Perioperative Concepts and Techniques (4)
 - SRGT1491 - Special Topics in Surgical/Operating Room Technician (4)

Degree Plan Credits **12**

Surgical Technology - Surgical Technology AAS

Locations

Harlingen

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

13 Total Credits



- Complete all of the following
 - Complete the following:
 - ENGL1301 - Composition I (3)
 - PSYC2301 - General Psychology (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)

Semester 2

11 Total Credits



- Complete all of the following
 - Complete the following:
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)
 - Complete at least 4 credits from the following:
 - BIOL2420 - Microbiology for Non-Science Majors (lecture + lab) (4)
 - BIOL2320 - Microbiology for Non-Science Majors (lecture) (3)
 - BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab) (1)

Semester 3

12 Total Credits



- Complete the following:
 - SRGT1405 - Introduction to Surgical Technology (4)
 - SRGT1409 - Fundamentals of Perioperative Concepts and Techniques (4)
 - SRGT1491 - Special Topics in Surgical/Operating Room Technician (4)

Semester 4

12 Total Credits



- Complete the following:
 - SRGT1541 - Surgical Procedures I (5)
 - SRGT1461 - Clinical - Surgical Technology/Technologist (4)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 5

12 Total Credits



- Complete the following:
 - SRGT1542 - Surgical Procedures II (5)
 - SRGT2462 - Clinical - Surgical Technology/Technologist (4)
 - SPCHX3XX - Gen Ed Speech Elective (3)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - SRGT2462 - Clinical - Surgical Technology/Technologist (4)

Pre/Corequisites

- SRGT 1461 Prerequisite(s): SRGT 1491
- SRGT 1542 Prerequisite(s): SRGT 1541
- SRGT 2462 Prerequisite(s): SRGT 1461

Elective Options

- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies (3)
- HUMA2323 - World Cultures (3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation (3)
- ARTS2326 - Sculpture I (3)
- ARTS2326 - Sculpture I (3)
- MUSI1306 - Music Appreciation (3)

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1325 - Calculus for Business & Social Sciences(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- MATH1350 - Math - Teachers I Fundamentals of Math I(3)
- MATH1351 - Fundamentals of Mathematics II(3)
- MATH2312 - Pre-Calculus Math (3 SCH version)(3)
- MATH2313 - Calculus I(3)
- MATH2318 - Linear Algebra (3)
- MATH2320 - Differential Equations (3 SCH version)(3)
- MATH2342 - Elementary Statistical Methods(3)
- MATH2313 - Calculus I(3)
- MATH2414 - Calculus II (4 SCH version)(4)
- MATH2415 - Calculus III (4 SCH version)(4)

- Complete at least 1 courses from the following:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)

Vocational Nursing

2026-2027 Catalog & Student Handbook

Description

The nursing profession is a large part of the high-demand health care field. In the Vocational Nursing program, students participate in an innovative learning environment that helps develop their caregiving skills. Instruction consists of classroom, simulation learning labs, interactive online sessions, virtual clinicals and on-site health care clinicals. In the simulation learning lab, students practice the skills and techniques introduced in their classes, and they will be challenged to work through real-world scenarios. After time in the simulation learning labs, students move to clinical sites at hospitals, nursing homes and doctor's offices where they experience the reality and pace of the nursing profession.

The Vocational Nursing program is a progressive learning program with each class built on knowledge from previous classes. It is necessary for student to pass each class before moving on to the next level. In order to progress in the program, a student must make an average of 79.5% or higher in each nursing course with the exception of Medical Terminology, A&P I and II, in which a grade of 70 or higher is acceptable.

Grading Scale

A = 90-100

B = 79.5 - 89

C = 70 - 79.4

D = 60 - 69

F = 0-59

NOTE: Students scoring less than a "B" or 79.5, as a final course average in the Vocational Nursing program will not progress to the next Level. There is no rounding in the Vocational Nursing program. Please see the Vocational Nursing Handbook on guidelines for failing a course and re-admission into the program.

Graduates of the Vocational Nursing program have many employment opportunities to consider, including hospitals, nursing homes, home health care, medical offices and insurance companies.

Requirements to enter the nursing programs differ from those of other programs. Limited numbers of students are accepted. The admission rating scale and application packet criteria will be used to determine acceptance. See the application packet for details. The Vocational Nursing program application packet may be accessed at tstc.edu.

Transfer credit shall be processed by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Transfer coursework must be assigned a grade of "D" or better. Grades lower than a "C" shall not be accepted for transfer toward major or major-related courses in the student's program. Credits earned at other colleges and universities must be approved for transfer credit by the subject matter expert in the student's major field of study. Credit for courses in related areas may also require approval from the subject matter expert of that program area. In the case of a transfer credit dispute or appeal, the Associate Vice Chancellor for Instructional Alignment & Innovation or a designee who oversees the department in which the course is taught shall have final authority for awarding transfer credit. See SOS ES 3.12 Transfer and Substitution of Credit for additional information. **Note: Programs in Health Sciences may have particular acceptance of academic course policies as outlined in their program application documentation or program handbook references.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Vocational Nursing - Vocational Nursing CER2

Locations

Breckenridge
Harlingen
Sweetwater

2026-2027 Catalog & Student Handbook

Modality

Hybrid

Program Requirements

Semester 1

11 Total Credits



- Complete all of the following
 - Complete at least 4 credits from the following:
 - BIOL2401 - Anatomy & Physiology I (lecture + lab) (4)
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)
 - BIOL2101 - Anatomy & Physiology I (lab) (1)
 - Complete at least 4 credits from the following:
 - BIOL2402 - Anatomy & Physiology II (lecture + lab) (4)
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)
 - BIOL2102 - Anatomy & Physiology II (lab) (1)
 - Complete the following:
 - HPRS2302 - Medical Terminology for Allied Health (3)

Semester 2

15 Total Credits



- Complete the following:
 - VNSG1261 - Clinical - Licensed Practical/Vocational Nurse Training (2)
 - VNSG1304 - Foundations of Nursing (3)
 - VNSG1331 - Pharmacology (3)
 - VNSG1327 - Essentials of Medication Administration (3)
 - VNSG1402 - Applied Nursing Skills I (4)

Semester 3

13 Total Credits



- Complete the following:
 - VNSG1230 - Maternal-Neonatal Nursing (2)
 - VNSG1329 - Medical-Surgical Nursing I (3)
 - VNSG1462 - Clinical - Licensed Practical/Vocational Nurse Training (4)
 - VNSG2413 - Applied Nursing Skills II (4)

Semester 4

12 Total Credits



- Complete the following:
 - VNSG1119 - Leadership and Professional Development (1)
 - VNSG1334 - Pediatrics (3)
 - VNSG1432 - Medical-Surgical Nursing II (4)
 - VNSG2463 - Clinical - Licensed Practical/Vocational Nurse Training (4)

Degree Plan Credits **51**

Capstone

- Complete the following:
 - VNSG2463 - Clinical - Licensed Practical/Vocational Nurse Training (4)

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Web Design & Development

Description

Web designers and developers work within a variety of settings to gather information, program content, and design a site that is effective and easy to use. The associate degree and certificate programs in Web Design and Development offer targeted coursework in website design, production, programming, applications, and maintenance, as well as the practical hands-on experience needed to understand the technology. The program includes curriculum specific to graphic and web design, web development, computer science, and computer networking. The curriculum also covers languages and software such as HTML, JavaScript, PHP, CSS, Python, and MySQL. Students not only learn instruction in web page design and composition, but also develop a portfolio and participate in a real-world project that moves them to the top of the class when employers seek candidates.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Web Design & Development - Web Design & Development - Front End Designer CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - IMED1371 - Ui/Ux Design (3)
 - ITSE1311 - Beginning Web Programming (3)
 - IMED1316 - Web Design I (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITSE2302 - Intermediate Web Programming (3)
 - ITSE2313 - Web Authoring (3)
 - IMED2315 - Web Design II (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
 - ITSE2313 - Web Authoring (3)

Pre/Corequisites

- IMED 1316 Prerequisite(s): ITSE 1311 (Prerequisite or Corequisite), IMED 1371 (Prerequisite or Corequisite)
- ITSE 2302, IMED 2315, Prerequisite(s): ITSE 1311
- ITSE 2313 Prerequisite(s): IMED 1316

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Web Design & Development - Web Design & Development - Full Stack Developer CER2

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - IMED1371 - Ui/Ux Design (3)
 - ITSE1311 - Beginning Web Programming (3)
 - IMED1316 - Web Design I (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITSE2313 - Web Authoring (3)
 - IMED2315 - Web Design II (3)
 - ITSE2302 - Intermediate Web Programming (3)

Semester 3
9 Total Credits



- Complete the following:
 - ITSE1303 - Introduction to MySQL (3)
 - ITSE1306 - PHP Programming (3)
 - IMED2349 - Internet Server Management (3)

Semester 4
9 Total Credits



- Complete the following:
 - IMED2309 - Internet Commerce (3)
 - IMED2345 - Interactive Digital Media II (3)
 - ITSE1373 - Introduction to Python (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - IMED2345 - Interactive Digital Media II (3)

Pre/Corequisites

- IMED 1316 Prerequisite(s): ITSE 1311 (Prerequisite or Corequisite), IMED 1371 (Prerequisite or Corequisite)
- ITSE 2313, IMED 2315 Prerequisite(s): IMED 1316
- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 1306 Prerequisite(s): ITSE 1303 (Prerequisite or Corequisite), ITSE 2302
- IMED 2309 Prerequisite(s): ITSE 1306
- IMED 2345 Prerequisite(s): ITSE 2302

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Web Design & Development - Web Design & Development - PHP Developer CER1

Locations

Online - TSTC Connect

Modality

Online
PBE

Program Requirements

Semester 1
9 Total Credits



- Complete the following:
 - IMED1371 - Ui/Ux Design (3)
 - ITSE1311 - Beginning Web Programming (3)
 - IMED1316 - Web Design I (3)

Semester 2
9 Total Credits



- Complete the following:
 - ITSE2313 - Web Authoring (3)
 - IMED2315 - Web Design II (3)
 - ITSE2302 - Intermediate Web Programming (3)

Semester 3
9 Total Credits



- Complete the following:
 - ITSE1303 - Introduction to MySQL (3)
 - ITSE1306 - PHP Programming (3)
 - IMED2349 - Internet Server Management (3)

Degree Plan Credits **27**

Capstone

- Complete the following:
 - ITSE1306 - PHP Programming (3)

Pre/Corequisites

- IMED 1316 Prerequisite(s): ITSE 1311 (Prerequisite or Corequisite), IMED 1371 (Prerequisite or Corequisite)
- ITSE 2313, IMED 2315 Prerequisite(s): IMED 1316
- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 1306 Prerequisite(s): ITSE 1303 (Prerequisite or Corequisite), ITSE 2302

Web Design & Development - Web Design & Development AAS

Locations

Online - TSTC Connect

Modality

Online
PBE

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Program Requirements

Semester 1

12 Total Credits



- Complete all of the following
 - Complete the following:
 - IMED1371 - Ui/Ux Design (3)
 - ITSE1311 - Beginning Web Programming (3)
 - IMED1316 - Web Design I (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)

Semester 2

12 Total Credits



- Complete the following:
 - ITSE2313 - Web Authoring (3)
 - IMED2315 - Web Design II (3)
 - ITSE2302 - Intermediate Web Programming (3)
 - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3

12 Total Credits



- Complete the following:
 - ITSE1303 - Introduction to MySQL (3)
 - ITSE1306 - PHP Programming (3)
 - IMED2349 - Internet Server Management (3)
 - ACGM3GED - Gen Ed Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - IMED2309 - Internet Commerce (3)
 - IMED2345 - Interactive Digital Media II (3)
 - ITSE1373 - Introduction to Python (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5

12 Total Credits



- Complete all of the following
 - Complete the following:
 - IMED2311 - Portfolio Development (3)
 - ITSE2373 - Advanced Python (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 3 credits from the following:
 - IMED2388 - Internship - Digital Communication and Media/Multimedia (3)
 - INEW2334 - Advanced Web Programming (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
 - IMED2388 - Internship - Digital Communication and Media/Multimedia (3)
 - IMED2311 - Portfolio Development (3)

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Pre/Corequisites

- IMED 1316 Prerequisite(s): ITSE 1311 (Prerequisite or Corequisite), IMED 1371 (Prerequisite or Corequisite)
- ITSE 2313, IMED 2315 Prerequisite(s): IMED 1316
- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 1306 Prerequisite(s): ITSE 1303 (Prerequisite or Corequisite), ITSE 2302
- IMED 2309 Prerequisite(s): ITSE 1306
- IMED 2345 Prerequisite(s): ITSE 2302
- IMED 2311, IMED 2388, INEW 2334 Prerequisite(s): ITSE 2313, IMED 2309, IMED 2315
- ITSE 2373 Prerequisite(s): ITSE 1373

Elective Options

- Complete at least 1 courses from the following:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1325 - Calculus for Business & Social Sciences(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - MATH1350 - Math - Teachers I Fundamentals of Math I(3)
 - MATH1351 - Fundamentals of Mathematics II(3)
 - MATH2312 - Pre-Calculus Math (3 SCH version)(3)
 - MATH2313 - Calculus I(3)
 - MATH2318 - Linear Algebra (3)
 - MATH2320 - Differential Equations (3 SCH version)(3)
 - MATH2342 - Elementary Statistical Methods(3)
 - MATH2313 - Calculus I(3)
 - MATH2414 - Calculus II (4 SCH version)(4)
 - MATH2415 - Calculus III (4 SCH version)(4)
- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I (3)
- ENGL1302 - Composition II (3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation (3)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2341 - Forms of Literature (3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures (3)
- MUSI1306 - Music Appreciation (3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology (3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)

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- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

Welding Technology

Description

The Welding Technology program at TSTC emphasizes the development of hands-on welding and layout and fitting skills. With extensive exposure to welding practices and principles, students can better understand not only how welding processes work, but also why certain welding processes and techniques are used. Students also gain extensive skills and knowledge through simulated industrial welder qualification tests with the following processes: SMAW, GMAW, FCAW (gas and self-shielded), GTAW, and SAW. With general welding or specialized programs such as the Associate of Applied Science degree in Welding Technology and certificates of completion in Structural Welding and Welding Advanced Pipe Specialization, there are many different options for those wanting to enter the welding industry.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Welding Technology - Welding Technology - Advanced Pipe CER2

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Locations

Abilene
Breckenridge
Brownwood
Fort Bend County
Harlingen
Marshall
North Texas
Sweetwater
Waco
Williamson County

Modality

Hybrid

Program Requirements

Semester 1
14 Total Credits



- Complete the following:
 - TECM1303 - Technical Calculations (3)
 - WLDG1313 - Introduction to Blueprint Reading for Welders (3)
 - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
 - WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW) (4)

Semester 2
12 Total Credits



- Complete the following:
 - WLDG1417 - Introduction to Layout and Fabrication (4)
 - WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding (4)
 - WLDG1457 - Intermediate Shielded Metal Arc Welding (SMAW) (4)

Semester 3
12 Total Credits



- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)
 - WLDG2435 - Advanced Layout and Fabrication (4)
 - WLDG2443 - Advanced Shielded Metal Arc Welding (SMAW) (4)

Semester 4
12 Total Credits



- Complete the following:
 - WLDG1435 - Introduction to Pipe Welding (4)
 - WLDG2406 - Intermediate Pipe Welding (4)
 - WLDG2453 - Advanced Pipe Welding (4)

Degree Plan Credits **50**

Capstone

- Complete the following:
 - WLDG2453 - Advanced Pipe Welding (4)

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Pre/Corequisites

- WLDG 1417 Prerequisite(s): WLDG 1313 (Prerequisite or Corequisite)
- WLDG 1434 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- WLDG 2413 Prerequisite(s): WLDG 1407, WLDG 1434 Prerequisite or Corequisite
- WLDG 2435 Prerequisite(s): WLDG 1417
- WLDG 2443 Prerequisite(s): WLDG 1457
- WLDG 1435, WLDG 2406, WLDG 2453 Prerequisite(s): WLDG 2435

Welding Technology - Welding Technology - Advanced Processes CER2

Locations

Waco
Williamson County
Harlingen
Fort Bend County
Abilene
Marshall
North Texas

Modality

Hybrid

Program Requirements

Semester 1
14 Total Credits



- Complete the following:
 - TECM1303 - Technical Calculations (3)
 - WLDG1313 - Introduction to Blueprint Reading for Welders (3)
 - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
 - WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW) (4)

Semester 2
12 Total Credits



- Complete the following:
 - WLDG1417 - Introduction to Layout and Fabrication (4)
 - WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding (4)
 - WLDG1457 - Intermediate Shielded Metal Arc Welding (SMAW) (4)

Semester 3
12 Total Credits



- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)
 - WLDG2435 - Advanced Layout and Fabrication (4)
 - WLDG2443 - Advanced Shielded Metal Arc Welding (SMAW) (4)

Semester 4
12 Total Credits



- Complete the following:
 - WLDG2447 - Advanced Gas Metal Arc Welding (gmaw) (4)
 - WLDG2451 - Advanced Gas Tungsten Arc Welding (GTAW) (4)
 - WLDG2452 - Advanced Flux Cored Arc Welding (4)

Degree Plan Credits **50**

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Capstone

- Complete the following:
 - WLDG2451 - Advanced Gas Tungsten Arc Welding (GTAW) (4)

Pre/Corequisites

- WLDG 1417 Prerequisite(s): WLDG 1313 (Prerequisite or Corequisite)
- WLDG 1434 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- WLDG 2413 Prerequisite(s): WLDG 1407, WLDG 1434 (Prerequisite or Corequisite)
- WLDG 2435 Prerequisite(s): WLDG 1417
- WLDG 2443 Prerequisite(s): WLDG 1457
- WLDG 2447, WLDG 2451, WLDG 2452 Prerequisite(s): WLDG 2413

Welding Technology - Welding Technology - Structural CER1

Locations

Waco
Williamson County
Harlingen
Fort Bend County
Sweetwater
Abilene
Brownwood
Breckenridge
Marshall
North Texas
New Braunfels

Modality

Hybrid

Program Requirements

Semester 1
14 Total Credits



- Complete the following:
 - TECM1303 - Technical Calculations (3)
 - WLDG1313 - Introduction to Blueprint Reading for Welders (3)
 - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
 - WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW) (4)

Semester 2
12 Total Credits



- Complete the following:
 - WLDG1417 - Introduction to Layout and Fabrication (4)
 - WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding (4)
 - WLDG1457 - Intermediate Shielded Metal Arc Welding (SMAW) (4)

Semester 3
12 Total Credits



- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)
 - WLDG2435 - Advanced Layout and Fabrication (4)
 - WLDG2443 - Advanced Shielded Metal Arc Welding (SMAW) (4)

Degree Plan Credits **38**

Capstone

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

Pre/Corequisites

- WLDG 1417 Prerequisite(s): WLDG 1313 (Prerequisite or Corequisite)
- WLDG 1434 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- WLDG 2413 Prerequisite(s): WLDG 1407, WLDG 1434 Prerequisite or Corequisite
- WLDG 2435 Prerequisite(s): WLDG 1417
- WLDG 2443 Prerequisite(s): WLDG 1457

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Welding Technology - Welding Technology AAS

Locations

Abilene
Williamson County
Fort Bend County
Harlingen
Waco
North Texas

Modality

Hybrid

Program Requirements

Semester 1

14 Total Credits



- Complete the following:
 - WLDG1313 - Introduction to Blueprint Reading for Welders (3)
 - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
 - WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW) (4)
 - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 2

15 Total Credits



- Complete the following:
 - WLDG1417 - Introduction to Layout and Fabrication (4)
 - WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding (4)
 - WLDG1457 - Intermediate Shielded Metal Arc Welding (SMAW) (4)
 - ENGL1301 - Composition I (3)

Semester 3

15 Total Credits



- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)
 - WLDG2435 - Advanced Layout and Fabrication (4)
 - WLDG2443 - Advanced Shielded Metal Arc Welding (SMAW) (4)
 - ACGM3GED - Gen Ed Elective (3)

Semester 4

16 Total Credits



- Complete all of the following
 - Complete the following:
 - WLDG1327 - Welding Codes and Standards (3)
 - NDTE1310 - Liquid Penetrant/Magnetic Particle Testing (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
 - Complete at least 4 credits from the following:
 - WLDG2432 - Welding Automation (4)
 - WLDG2451 - Advanced Gas Tungsten Arc Welding (GTAW) (4)

Degree Plan Credits **60**

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Capstone

- Complete the following:
 - WLDG1327 - Welding Codes and Standards (3)

Pre/Corequisites

- WLDG 1417 Prerequisite(s): WLDG 1313 (Prerequisite or Corequisite)
- WLDG 1434 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- WLDG 2413 Prerequisite(s): WLDG 1407, WLDG 1434
- WLDG 2435 Prerequisite(s): WLDG 1417
- WLDG 2443 Prerequisite(s): WLDG 1457
- WLDG 1327, NDTE 1310, WLDG 2432, WLDG 2451 Prerequisite(s): WLDG 2413

Elective Options

- Complete at least 1 courses from the following:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
 - BIOL1307 - Biology for Science Majors II(3)
 - BIOL1308 - Biology for Non-Science Majors I(3)
 - BIOL1309 - Biology for Non-Science Majors II(3)
 - BIOL2301 - Anatomy & Physiology I (lecture)(3)
 - BIOL2302 - Anatomy & Physiology II (lecture)(3)
 - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
 - CHEM1305 - Introductory Chemistry I (lecture)(3)
 - CHEM1311 - General Chemistry I (lecture)(3)
 - CHEM1312 - General Chemistry II (lecture)(3)
 - MATH1314 - College Algebra (3 SCH version)(3)
 - MATH1316 - Plane Trigonometry(3)
 - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
 - MATH1342 - Elementary Statistical Methods(3)
 - PHYS1315 - Physical Science I (lecture)(3)
 - PHYS1317 - Physical Science II(3)
- Complete at least 1 courses from the following:



General Education Electives

- ENGL1301 - Composition I(3)
- ENGL1302 - Composition II(3)
- ENGL2311 - Technical & Business Writing(3)
- HIST2321 - World Civilizations I(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication(3)
- SPCH1321 - Business & Professional Communication(3)
- ARTS1301 - Art Appreciation(3)
- ENGL2321 - British Literature(3)
- ENGL2326 - American Literature (single-Semester Course)(3)
- ENGL2341 - Forms of Literature(3)
- HUMA1301 - Introduction to Humanities I(3)
- HUMA2323 - World Cultures(3)
- MUSI1306 - Music Appreciation(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2306 - Introduction to Ethics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology(3)
- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)

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- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1412 - General Chemistry II(4)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology(3)
- ECON1301 - Introduction to Economics(3)
- ECON2301 - Principles of Macroeconomics(3)
- ECON2302 - Principles of Microeconomics(3)
- GEOG1302 - Human Geography(3)
- GEOG1303 - World Regional Geography(3)
- PSYC1100 - Learning Framework(1)
- PSYC2301 - General Psychology(3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology(3)
- SOCI1306 - Social Problems(3)
- SOCI2319 - Minority Studies I(3)

Wind Energy Technology

Description

As a wind energy technician, the sky is only the beginning. You can work at turbine construction and manufacturing sites, in the distribution and generation industries, at utility companies, or on wind farms across the country. At TSTC, you will learn to conduct efficiency studies and troubleshoot materials and machines in factories, as well as offices and production sites. You will prepare machinery and equipment layouts, plan workflow for turbine construction and maintenance, conduct statistical studies of product quality and time usage, and analyze production costs. Upon successful completion of our program, you will be qualified to operate and maintain the systems that make a wind turbine function.

Money-Back Guarantee

This program is eligible for the Money-Back Guarantee initiative. Students opting into the TSTC Money-Back Guarantee program are required to successfully complete HIRE 1000 Foundations for Career Success. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Wind Energy Technology - Wind Energy Technology AAS

Locations

Harlingen
Sweetwater

Modality

Hybrid

2026-2027 Catalog & Student Handbook

Program Requirements

Semester 1

15 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - WIND1300 - Introduction to Wind Energy (3)
 - WIND1302 - Wind Safety (3)
 - MATH1314 - College Algebra (3 SCH version) (3)
 - ELMT1305 - Basic Fluid Power (3)

Semester 2

15 Total Credits



- Complete the following:
 - CETT1305 - AC Circuits (3)
 - CETT1325 - Digital Fundamentals (3)
 - WIND2310 - Wind Turbine Materials and Electro-Mechanical Equipment (3)
 - ENER2325 - SCADA and Networking (3)
 - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 3

15 Total Credits



- Complete all of the following
 - Complete the following:
 - ELMT1301 - Programmable Logic Controllers (3)
 - INMT1317 - Industrial Automation (3)
 - Complete at least 3 credits from the following:
 - ENGL1301 - Composition I (3)
 - ENGL2311 - Technical & Business Writing (3)
 - Complete the following:
 - WIND2359 - Wind Power Delivery System (3)
 - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4

12 Total Credits



- Complete the following:
 - ELMT2341 - Electromechanical Systems (3)
 - WIND1371 - Safety At Height Training (3)
 - WIND2355 - Wind Turbine Troubleshooting and Repair (3)
 - ACGM3GED - Gen Ed Elective (3)

Semester 5

3 Total Credits



- Complete at least 3 credits from the following:
 - ELMT2380 - Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology (3)
 - WIND1391 - Special Topics in Wind Energy (3)

Degree Plan Credits **60**

2026-2027 Catalog & Student Handbook

Capstone

- Complete all of the following
 - Complete the following:
 - ELMT2380 - Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology (3)
 - Complete the following:
 - WIND1391 - Special Topics in Wind Energy (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303
- CETT 1325 Prerequisite(s): CETT 1302 or CETT 1305 (Prerequisite or Corequisite)
- WIND 2310 Prerequisite(s): WIND 1300, WIND 1302, CETT 1303
- ENER 2325 Prerequisite(s): CETT 1305 (Prerequisite or Corequisite)
- ELMT 1301 Prerequisite(s): CETT 1325
- WIND 2359 Prerequisite(s): CETT 1305
- ELMT 2341 Prerequisite(s): ELMT 1374 or INMT 1317
- WIND 1371 Prerequisite(s): CETT 1325
- WIND 2355 Prerequisite(s): CETT 1305, INMT 1317

Elective Options

- Complete at least 1 courses from the following:



Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
 - GOVT2306 - Texas Government (Texas constitution & topics)(3)
 - ANTH2346 - General Anthropology(3)
 - ECON1301 - Introduction to Economics(3)
 - ECON2301 - Principles of Macroeconomics(3)
 - ECON2302 - Principles of Microeconomics(3)
 - GEOG1302 - Human Geography (3)
 - GEOG1303 - World Regional Geography(3)
 - PSYC1100 - Learning Framework(1)
 - PSYC2301 - General Psychology(3)
 - PSYC2314 - Lifespan Growth & Development(3)
 - HIST1301 - United States History I(3)
 - HIST1302 - United States History II(3)
 - HIST2312 - Western Civilization II(3)
 - HIST2321 - World Civilizations I(3)
 - SOCI1301 - Introduction to Sociology(3)
 - SOCI1306 - Social Problems (3)
 - SOCI2319 - Minority Studies I(3)
- Complete at least 1 courses from the following:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
 - HUMA2319 - American Minority Studies(3)
 - HUMA2323 - World Cultures(3)
 - PHIL1301 - Introduction to Philosophy(3)
 - PHIL1304 - Introduction to World Religions(3)
 - PHIL2303 - Introduction to Formal Logic(3)
 - PHIL2306 - Introduction to Ethics(3)
 - ARTS1301 - Art Appreciation(3)
 - ARTS2326 - Sculpture I(3)
 - ARTS2326 - Sculpture I(3)
 - MUSI1306 - Music Appreciation(3)
- Complete at least 1 courses from the following:



Biology 4 Credit Approved Elective

Wind Energy Technology - Wind Energy Technology CER1

Locations

Harlingen
Sweetwater

Modality

Hybrid

Program Requirements

Semester 1
15 Total Credits



- Complete the following:
 - CETT1303 - DC Circuits (3)
 - TECM1303 - Technical Calculations (3)
 - WIND1300 - Introduction to Wind Energy (3)
 - WIND1302 - Wind Safety (3)
 - ELMT1305 - Basic Fluid Power (3)

Semester 2
12 Total Credits



- Complete the following:
 - CETT1305 - AC Circuits (3)
 - CETT1325 - Digital Fundamentals (3)
 - WIND2310 - Wind Turbine Materials and Electro-Mechanical Equipment (3)
 - ENER2325 - SCADA and Networking (3)

Semester 3
9 Total Credits



- Complete the following:
 - ELMT1301 - Programmable Logic Controllers (3)
 - INMT1317 - Industrial Automation (3)
 - WIND2359 - Wind Power Delivery System (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
 - WIND2359 - Wind Power Delivery System (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303 or IEIR 1302 (Prerequisite or Corequisite)
- CETT 1325 Prerequisite(s): CETT 1302, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 or CETT 1305 (Prerequisite or Corequisite)
- WIND 2310 Prerequisite(s): WIND 1300, WIND 1302, CETT 1303
- ENER 2325, INMT 1317 Prerequisite(s): CETT 1303, CETT 1305 (Corequisite)
- ELMT 1301 Prerequisite(s): CETT 1325
- WIND 2359 Prerequisite(s): CETT 1305

Courses

Academic Course

ACGM3BIO - BIO AS - Approved Elective List 2

Course Title

BIO AS - Approved Elective List 2

Academic Level

Undergraduate

Description

ACGM Biology AS - Elective 3 credits

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

ACGM3CAOA - Component Area Option A

Course Title

Component Area Option A

Academic Level

Undergraduate

Description

Component Area Option A * 3 credits

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Course Options

- Complete at least 3 credits from the following course set:



Component Area Option A (for Computer Science AS)

- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2331 - World Literature (3)
- PSYC2314 - Lifespan Growth & Development(3)

- Complete at least 3 credits from the following course set:



Component Area Option A (for Academic Core Curriculum)

- BIOL1106 - Biology for Science Majors Laboratory I (lab)(1)
- BIOL1107 - Biology for Science Majors II Lab(1)
- BIOL1108 - Biology Non-Science Majors Laboratory I(1)
- BIOL1109 - Biology for Non-Science Majors II Lab(1)
- BIOL2101 - Anatomy & Physiology I (lab)(1)
- BIOL2102 - Anatomy & Physiology II (lab)(1)
- CHEM1111 - General Chemistry I (lab)(1)
- CHEM1112 - General Chemistry II (lab)(1)
- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2331 - World Literature (3)
- PHYS1101 - College Physics Laboratory I(1)
- PHYS1102 - College Physics Lab II(1)
- PHYS1115 - Physical Science Lab I(1)
- PHYS1117 - Physical Science Laboratory II(1)
- PSYC2314 - Lifespan Growth & Development(3)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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ACGM3CAOB - Component Area Option

Course Title

Component Area Option

Academic Level

Undergraduate

Description

Component Area Option A * 3 credits

Course Options

- Complete at least 3 credits from the following course set:



Component Area Option B (for Academic Core Curriculum)

- SPCH1311 - Introduction to Speech Communication(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3CAR - Creative Arts Elective

Course Title

Creative Arts Elective

Academic Level

Undergraduate

Description

Creative Arts Elective 3 credits

Course Options

- Complete at least 3 credits from the following course set:



Creative Arts Elective

- ARTS1301 - Art Appreciation (3)
- MUSI1306 - Music Appreciation (3)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3GED - Gen Ed Elective

Course Title

Gen Ed Elective

Academic Level

Undergraduate

Description

Gen Ed Elective

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3HFA - Gen Ed Humanities/Fine Arts Elective

Course Title

Gen Ed Humanities/Fine Arts Elective

Academic Level

Undergraduate

Description

Gen Ed Humanities/Fine Arts Elective

Course Options

- Complete at least 3 credits from the following course set:



Humanities/Fine Arts Elective

- HUMA1301 - Introduction to Humanities I(3)
- HUMA2319 - American Minority Studies(3)
- HUMA2323 - World Cultures(3)
- PHIL1301 - Introduction to Philosophy(3)
- PHIL1304 - Introduction to World Religions(3)
- PHIL2303 - Introduction to Formal Logic(3)
- PHIL2306 - Introduction to Ethics(3)
- ARTS1301 - Art Appreciation(3)
- ARTS2326 - Sculpture I(3)
- ARTS2326 - Sculpture I(3)
- MUSI1306 - Music Appreciation(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3LPC - Language, Philosophy and Culture Elective **Course Title**

Language, Philosophy and Culture Elective

Academic Level

Undergraduate

Description

Language, Philosophy and Culture Elective

Course Options

- Complete at least 3 credits from the following course set:



Language, Philosophy & Culture Elective

- ENGL2321 - British Literature (3)
- ENGL2326 - American Literature (single-Semester Course) (3)
- ENGL2331 - World Literature (3)
- PHIL1304 - Introduction to World Religions(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3LPS - Life and Physical Science Elective

Course Title

Life and Physical Science Elective

Academic Level

Undergraduate

Description

Life and Physical Science Elective

Course Options

- Complete at least 3 credits from the following course set:



Life & Physical Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- PHYS1301 - College Physics I (lecture)(3)
- PHYS1302 - College Physics II (lecture)(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3MNS - Gen Ed Math/Natural Science Elective

Course Title

Gen Ed Math/Natural Science Elective

Academic Level

Undergraduate

Description

Gen Ed Math/Natural Science Elective

Course Options

- Complete at least 3 credits from the following course set:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3MTH - Gen Ed Mathematics Elective

Course Title

Gen Ed Mathematics Elective

Academic Level

Undergraduate

Description

Gen Ed Mathematics Elective

Course Options

- Complete at least 3 credits from the following course set:



Mathematics Elective

- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1325 - Calculus for Business & Social Sciences(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- MATH1350 - Math - Teachers I Fundamentals of Math I(3)
- MATH1351 - Fundamentals of Mathematics II(3)
- MATH2312 - Pre-Calculus Math (3 SCH version)(3)
- MATH2313 - Calculus I(3)
- MATH2318 - Linear Algebra (3)
- MATH2320 - Differential Equations (3 SCH version)(3)
- MATH2342 - Elementary Statistical Methods(3)
- MATH2313 - Calculus I(3)
- MATH2414 - Calculus II (4 SCH version)(4)
- MATH2415 - Calculus III (4 SCH version)(4)

- Complete at least 3 credits from the following course set:



Mathematics Elective (for Academic Core)

- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH2312 - Pre-Calculus Math (3 SCH version)(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3NSC - Gen Ed Natural Science Elective

Course Title

Gen Ed Natural Science Elective

Academic Level

Undergraduate

Description

Gen Ed Natural Science Elective

Course Options

- Complete at least 3 credits from the following course set:



Math/Natural Science Elective

- BIOL1306 - Biology for Science Majors I (lecture)(3)
- BIOL1307 - Biology for Science Majors II(3)
- BIOL1308 - Biology for Non-Science Majors I(3)
- BIOL1309 - Biology for Non-Science Majors II(3)
- BIOL2301 - Anatomy & Physiology I (lecture)(3)
- BIOL2302 - Anatomy & Physiology II (lecture)(3)
- BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)(4)
- CHEM1305 - Introductory Chemistry I (lecture)(3)
- CHEM1311 - General Chemistry I (lecture)(3)
- CHEM1312 - General Chemistry II (lecture)(3)
- MATH1314 - College Algebra (3 SCH version)(3)
- MATH1316 - Plane Trigonometry(3)
- MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
- MATH1342 - Elementary Statistical Methods(3)
- PHYS1315 - Physical Science I (lecture)(3)
- PHYS1317 - Physical Science II(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3SBS - Gen Ed Social/Behavioral Science Elective

Course Title

Gen Ed Social/Behavioral Science Elective

Academic Level

Undergraduate

Description

Gen Ed Social/Behavioral Science Elective

Course Options

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Social/Behavioral Science Elective

- GOVT2305 - Federal Government (Federal constitution & topics)(3)
- GOVT2306 - Texas Government (Texas constitution & topics)(3)
- ANTH2346 - General Anthropology (3)
- ECON1301 - Introduction to Economics (3)
- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- GEOG1302 - Human Geography (3)
- GEOG1303 - World Regional Geography (3)
- PSYC1100 - Learning Framework (1)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- HIST1301 - United States History I(3)
- HIST1302 - United States History II(3)
- HIST2312 - Western Civilization II(3)
- HIST2321 - World Civilizations I(3)
- SOCI1301 - Introduction to Sociology (3)
- SOCI1306 - Social Problems (3)
- SOCI2319 - Minority Studies I(3)

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Social/Behavioral Science Elective (for Academic Core Majors)

- ECON2301 - Principles of Macroeconomics (3)
- ECON2302 - Principles of Microeconomics (3)
- PSYC2301 - General Psychology (3)
- PSYC2314 - Lifespan Growth & Development(3)
- SOCI1301 - Introduction to Sociology (3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACGM3SPH - Gen Ed Speech Elective

Course Title

Gen Ed Speech Elective

Academic Level

Undergraduate

Description

Gen Ed Speech Elective

Course Options

- Complete at least 3 credits from the following course set:

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Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Accounting

2026-2027 Catalog & Student Handbook

ACCT2301 - Principles of Financial Accounting

Course Title

Principles of Financial Accounting

Academic Level

Undergraduate

Description

This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS).

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Accounting Technology

2026-2027 Catalog & Student Handbook

ACNT1001 - Beginning Bookkeeping

Course Title

Beginning Bookkeeping

Academic Level

Continuing Education

Description

Focus on analyzing, classifying, and recording business transactions. Emphasizes understanding of complete accounting cycle and preparing financial statements, bank reconciliations, and payroll.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

ACNT1004 - Accounting Fundamentals II

Course Title

Accounting Fundamentals II

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

2

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ACNT1025 - Principles of Accounting I

Course Title

Principles of Accounting I

Academic Level

Continuing Education

Description

A study of accounting concepts and their application in transaction analysis and financial statement preparation and asset and equity accounting in proprietorships and corporations. Emphasis on accounting cycle for service and merchandising enterprises.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Semester Credit Hours

0

ACNT1041 - Accounting II

Course Title

Accounting II

Academic Level

Continuing Education

Description

Introduction to cost behavior, budgeting, responsibility accounting, cost control, product costing, break even analysis, incremental analysis, and decision-making and planning.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ACNT1303 - Introduction to Accounting I

Course Title

Introduction to Accounting I

Academic Level

Undergraduate

Description

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ACNT1311 - Introduction to Computerized Accounting

Course Title

Introduction to Computerized Accounting

Academic Level

Undergraduate

Description

Introduction to utilizing the computer in maintaining accounting records with primary emphasis on a general ledger package.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACNT1325 - Principles of Accounting I **Course Title**

Principles of Accounting I

Academic Level

Undergraduate

Description

A study of accounting concepts and their application in transaction analysis and financial statement preparation. Emphasis on the accounting cycle for service and merchandising enterprises.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACNT1326 - Principles of Accounting II

Course Title

Principles of Accounting II

Academic Level

Undergraduate

Description

A study of the fundamentals of managerial accounting. Emphasis on budgeting, planning, management decision making, and analysis of financial reports.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ACNT1325 - Principles of Accounting I (3)

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ACNT1329 - Payroll & Business Tax Accounting

Course Title

Payroll & Business Tax Accounting

Academic Level

Undergraduate

Description

A study of payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities in a manual and computerized environment.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

ACNT1340 - Accounting and Business Ethics

Course Title

Accounting and Business Ethics

Academic Level

Undergraduate

Description

Ethical standards and behaviors, codes of professional conduct, and the impact of unethical behavior on an individual, business, and society.

Lecture Hours

2

Lab Hours

2

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ACNT2302 - Accounting Capstone **Course Title**

Accounting Capstone

Academic Level

Undergraduate

Description

Allows students to apply broad knowledge of the accounting profession through discipline specific projects involving the integration of individuals and teams performing activities to simulate workplace situations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Agriculture-Mechanization

2026-2027 Catalog & Student Handbook

AGME1353 - Harvesting Equipment

Course Title

Harvesting Equipment

Academic Level

Undergraduate

Description

Operation and maintenance including adjustment techniques of harvesting equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Air Conditioning

MAIR1000 - Troubleshooting

Course Title

Troubleshooting

Academic Level

Continuing Education

Description

Introduction to the skills required to troubleshoot, repair, or renovate domestic equipment.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MAIR1349 - Refrigeration, Freezers, Window Air Cond **Course Title**

Refrigeration, Freezers, Window Air Cond

Academic Level

Undergraduate

Description

Theory, sequence of operation, components and repair, electrical schematics, and troubleshooting electronic components in air conditioning and refrigeration. Emphasis on safety for the electrical, mechanical, and sealed systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Animation, Video Graphics

GAME1029 - Flash 8 Characters and Storyboarding **Course Title**

Flash 8 Characters and Storyboarding

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Anthropology

2026-2027 Catalog & Student Handbook

ANTH2346 - General Anthropology

Course Title

General Anthropology

Academic Level

Undergraduate

Description

The study of human beings, their antecedents, related primates, and their cultural behavior and institutions. Introduces the major subfields: physical and cultural anthropology, archeology, linguistics, their applications, and ethics in the discipline.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Applied/Technical Mathematics

TECM1049 - Technical Math

Course Title

Technical Math

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

TECM1091 - St in Applied Mathematics, Gen

Course Title

St in Applied Mathematics, Gen

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

TECM1091 - Sp Top Applied Math, Gen.

Course Title

Sp Top Applied Math, Gen.

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

TECM1303 - Technical Calculations

Course Title

Technical Calculations

Academic Level

Undergraduate

Description

Specific mathematical calculations required by business, industry, and health occupations.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

TECM1349 - Technical Math Applications

Course Title

Technical Math Applications

Academic Level

Undergraduate

Description

Trigonometry and geometry as used in a variety of technical settings. Includes the use of plane and solid geometry to solve areas and volumes encountered in industry.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Architecture

ARCE1303 - Architectural Materials and Methods of Construction **Course Title**

Architectural Materials and Methods of Construction

Academic Level

Undergraduate

Description

Properties, specifications, and uses of materials as related to architectural systems of structures.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)

2026-2027 Catalog & Student Handbook

ARCE1321 - Architectural Illustration

Course Title

Architectural Illustration

Academic Level

Undergraduate

Description

Architectural drawing and sketching. Emphasizes architectural structures in 3-D or pictorially either by hand or computer software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)

Corequisites

- Completed or concurrently enrolled in:
 - DFTG1309 - Basic Computer-Aided Drafting (3)

2026-2027 Catalog & Student Handbook

ARCE1342 - Codes, Specifications, and Contract Documents

Course Title

Codes, Specifications, and Contract Documents

Academic Level

Undergraduate

Description

Study of ordinances, codes, and legal documents as they relate to specifications and drawing. Discussion of owner-architect-contractor responsibilities, duties, and legal relationships.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARCE1303 - Architectural Materials and Methods of Construction (3)

Corequisites

- Completed or concurrently enrolled in:
 - ARCE1303 - Architectural Materials and Methods of Construction (3)

2026-2027 Catalog & Student Handbook

ARCE1352 - Structural Drafting

Course Title

Structural Drafting

Academic Level

Undergraduate

Description

A study of structural systems including concrete foundations and frames, wood framing and trusses, and structural steel framing systems. Includes detailing of concrete, wood, and steel to meet industry standards including the American Institute of Steel Construction and The American Concrete Institute.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)

2026-2027 Catalog & Student Handbook

ARCE2052 - Mechanical and Electrical Systems

Course Title

Mechanical and Electrical Systems

Academic Level

Continuing Education

Description

The properties of building materials (assemblies), specifications, codes, vendor references, and uses of mechanical, plumbing, conveying, and electrical systems as they relate to architecture for residential and commercial construction.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ARCE2352 - Mechanical and Electrical Systems

Course Title

Mechanical and Electrical Systems

Academic Level

Undergraduate

Description

The properties of building materials (assemblies), specifications, codes, vendor references, and uses of mechanical, plumbing, conveying, and electrical systems as they relate to architecture for residential and commercial construction.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)

Corequisites

- Completed or concurrently enrolled in:
 - DFTG2328 - Architectural Drafting - Commercial (3)

Arts

2026-2027 Catalog & Student Handbook

ARTS1301 - Art Appreciation

Course Title

Art Appreciation

Academic Level

Undergraduate

Description

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

ARTS1304 - Art History II

Course Title

Art History II

Academic Level

Undergraduate

Description

A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

ARTS2326 - Sculpture I

Course Title

Sculpture I

Academic Level

Undergraduate

Description

Exploration of ideas using sculpture media and techniques.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Auctioneering

2026-2027 Catalog & Student Handbook

AUCT2001 - License Renewal for Auctioneer

Course Title

License Renewal for Auctioneer

Academic Level

Continuing Education

Description

Refresher course in the universal standards of auctioneering practices and the various state and federal statutes that govern the licensing of auctioneers for the purpose of license renewal. Includes the study of the Texas Auctioneer Law, professionalism, conduct, ethics, deceptive trade practice law, and other applicable laws.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

6

Semester Credit Hours

0

Autobody

ABDR1031 - Basic Refinishing

Course Title

Basic Refinishing

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ABDR1203 - Vehicle Design and Structural Analysis

Course Title

Vehicle Design and Structural Analysis

Academic Level

Undergraduate

Description

An introduction to the collision repair industry with emphasis on safety, professionalism, and vehicle structural design.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

ABDR1207 - Collision Repair Welding

Course Title

Collision Repair Welding

Academic Level

Undergraduate

Description

A study of collision repair welding and cutting procedures.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

ABDR1215 - Vehicle Trim and Hardware

Course Title

Vehicle Trim and Hardware

Academic Level

Undergraduate

Description

A study of vehicle trim and glass service.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

ABDR1266 - Practicum **Course Title**

Practicum

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

14

Total Contact Hours

224

Credits

2

Semester Credit Hours

2

Prerequisites

- Rule Not Selected

2026-2027 Catalog & Student Handbook

ABDR1280 - Cooperative Education - Autobody/Collision and Repair Technology/Technician **Course Title**

Cooperative Education - Autobody/Collision and Repair Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Students are required to complete 176 hrs total in the semester. It is recommended that a student completes 23.5 hours a week for the 7.5 week coop. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

10

Total Contact Hours

176

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

ABDR1307 - Collision Repair Welding

Course Title

Collision Repair Welding

Academic Level

Undergraduate

Description

A study of collision repair welding and cutting procedures.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ABDR1215 - Vehicle Trim and Hardware (2)

2026-2027 Catalog & Student Handbook

ABDR1323 - Collision Repair Steering and Suspension

Course Title

Collision Repair Steering and Suspension

Academic Level

Undergraduate

Description

Study of vehicle steering components including alignment, tire rotation, and balancing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

2026-2027 Catalog & Student Handbook

ABDR1331 - Basic Refinishing

Course Title

Basic Refinishing

Academic Level

Undergraduate

Description

An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ABDR1349 - Automotive Plastic and Sheet Molded Compound Repair

Course Title

Automotive Plastic and Sheet Molded Compound Repair

Academic Level

Undergraduate

Description

A comprehensive course in repair of non-metal composites.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Corequisites

-

2026-2027 Catalog & Student Handbook

ABDR1359 - Sheet Metal Fabrication I

Course Title

Sheet Metal Fabrication I

Academic Level

Undergraduate

Description

A study of the basic shaping techniques required for fabricating sheet metal parts and pieces. Discussion will include custom cars and street rods.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices

Course Title

Basic Paint Techniques, Equipment & Environmental Practices

Academic Level

Undergraduate

Description

An introduction to current refinishing products, equipment and procedures used in the automotive refinishing industry on damaged panels. Emphasis on surface preparation, corrosion protection, masking techniques, block sanding techniques, and refinishing repaired panels.

Lecture Hours

1

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ABDR1411 - Vehicle Measurement and Damage Repair Procedures

Course Title

Vehicle Measurement and Damage Repair Procedures

Academic Level

Undergraduate

Description

Introduction to vehicle measurement and structural alignment equipment.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

ABDR1419 - Basic Metal Repair

Course Title

Basic Metal Repair

Academic Level

Undergraduate

Description

Covers metal principles and working techniques including proper tool usage and product application.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ABDR1431 - Basic Refinishing

Course Title

Basic Refinishing

Academic Level

Undergraduate

Description

An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing and replacement parts.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)

2026-2027 Catalog & Student Handbook

ABDR1441 - Struct Analysis & Damage Repair I

Course Title

Struct Analysis & Damage Repair I

Academic Level

Undergraduate

Description

Expanded training in the roughing and shaping procedures on automotive sheet metal necessary to perform body repairs. Emphasis on the alignment of component parts such as doors, hood, front-end assemblies, and deck lids.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ABDR1442 - Structural Analysis and Damage Repair II

Course Title

Structural Analysis and Damage Repair II

Academic Level

Undergraduate

Description

Continuation of general repair and replacement procedures for damaged structural parts and collision damage.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR1323 - Collision Repair Steering and Suspension (3)
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

2026-2027 Catalog & Student Handbook

ABDR1458 - Intermediate Refinishing

Course Title

Intermediate Refinishing

Academic Level

Undergraduate

Description

Training in mixing and spraying of automotive topcoats. Introduction to partial panel refinishing techniques.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR1371 - Basic Paint Techniques, Equipment & Environmental Practices (3)

2026-2027 Catalog & Student Handbook

ABDR1472 - Cosmetic Repair and Conditioning

Course Title

Cosmetic Repair and Conditioning

Academic Level

Undergraduate

Description

This course is intended to educate the entry-level technician to the Tesla Motors advanced autobody repair technology. Topics will included, but not limited to safety, dent removal and repair, estimating, sanding and refinishing vehicle make ready.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

ABDR1473 - Tesla Specialized Welding

Course Title

Tesla Specialized Welding

Academic Level

Undergraduate

Description

This course is intended to educate the entry-level technician to the Tesla Motors advanced autobody repair technology. Topics will included, but not limited to safety, steel welding, aluminum welding, rivet bonding and weld bonding.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ABDR1474 - Tesla Structural Repair

Course Title

Tesla Structural Repair

Academic Level

Undergraduate

Description

This course is intended to educate the entry-level technician to the Tesla Motors advanced autobody repair technology. Topics will include, but not limited to safety, estimating, structural repairs, OEM repair procedures

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ABDR1481 - Cooperative Education - Autobody/Collision and Repair Technology/Technician **Course Title**

Cooperative Education - Autobody/Collision and Repair Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 352 hours total in the semester. It is recommended that a student completes 23.5 hours a week for the 15 week semester. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

16

Lab Hours

0

Ext. Con. Hrs

336

Total Contact Hours

352

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ABDR1542 - Structural Analysis and Damage Repair II

Course Title

Structural Analysis and Damage Repair II

Academic Level

Undergraduate

Description

Continuation of general repair and replacement procedures for damaged structural parts and collision damage.

Lecture Hours

3

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

144

Credits

5

Semester Credit Hours

5

ABDR2255 - Collision Repair Estimating

Course Title

Collision Repair Estimating

Academic Level

Undergraduate

Description

An advanced course in collision estimating and development of a damage report utilizing estimating software.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

ABDR2270 - Advanced Application Processes of Refinishing **Course Title**

Advanced Application Processes of Refinishing

Academic Level

Undergraduate

Description

An advanced course in the practical application of acquired refinishing skills. Use industry relevant estimating programs and interpret work orders to create and implement a repair plan on live projects. Repairs will be completed by application of theory, concepts and skills involving specialized materials, tools, equipment, procedures, regulations, laws and interactions with the instructor/customer; and will demonstrate ethical behavior, safety practices, interpersonal and teamwork skills and appropriate written and verbal communication skills using the terminology of collision repair industry and the instructor/customer.

Lecture Hours

0

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - ABDR2449 - Advanced Refinishing (4)
 - ABDR2551 - Specialized Refinishing Techniques (5)

2026-2027 Catalog & Student Handbook

ABDR2281 - Cooperative Education - Autobody/Collision and Repair Technology/Technician **Course Title**

Cooperative Education - Autobody/Collision and Repair Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Students are required to complete 176 hrs total in the semester. It is recommended that a student completes 23.5 hours a week for the 7.5 week coop. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

10

Total Contact Hours

176

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - ABDR2449 - Advanced Refinishing (4)
 - ABDR2551 - Specialized Refinishing Techniques (5)

2026-2027 Catalog & Student Handbook

ABDR2305 - Sheet Metal Fab II

Course Title

Sheet Metal Fab II

Academic Level

Undergraduate

Description

A study of the advanced shaping techniques required for fabricating sheet metal parts and pieces. Discussion will include custom cars and street rods.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ABDR2345 - Vehicle Safety Systems

Course Title

Vehicle Safety Systems

Academic Level

Undergraduate

Description

Theory and operation of air bags and other passive and non-passive restraint systems including automotive anti-lock systems and diagnostic methods used in the collision repair industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ABDR2357 - Collision Repair Shop Management **Course Title**

Collision Repair Shop Management

Academic Level

Undergraduate

Description

Examination of shop management functions and decision-making processes including planning, organizing, leading and staffing used in collision repair shops to ensure operational profitability.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ABDR2255 - Collision Repair Estimating (2)

2026-2027 Catalog & Student Handbook

ABDR2359 - Structural Sectioning

Course Title

Structural Sectioning

Academic Level

Undergraduate

Description

Skill development in the practical application of welded panel replacement and structural sectioning procedures as well as practical equipment applications in structural vehicle straightening, alignment, welding, and corrosion protection.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

2026-2027 Catalog & Student Handbook

ABDR2371 - Refinishing Process I

Course Title

Refinishing Process I

Academic Level

Undergraduate

Description

The theory and practical application of spray booth and vehicle pre-spray preparation. Remove and perform final finishing. Apply decals and stripes with emphasis on paint problems and remedies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ABDR1458 - Intermediate Refinishing (4)
 - ABDR1431 - Basic Refinishing (4)

2026-2027 Catalog & Student Handbook

ABDR2380 - Cooperative Education - Autobody/Collision and Repair Technology/Technician **Course Title**

Cooperative Education - Autobody/Collision and Repair Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Students are required to complete 240 hrs total in the semester. It is recommended that a student completes 32 hours a week for the 7.5 week coop. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

14

Total Contact Hours

240

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ABDR2381 - Cooperative Education - Autobody/Collision and Repair Technology/Technician **Course Title**

Cooperative Education - Autobody/Collision and Repair Technology/Technician

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Are Offered Through a Cooperative Agreement Between the College, Employer, and Student. Under Supervision of The College and the Employer, the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience.

Students are required to complete 240 hrs total in the semester. It is recommended that a student completes 32 hours a week for the 7.5 week coop. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

14

Total Contact Hours

240

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ABDR2402 - Auto Body Mechanical & Electrical Srv. Service

Course Title

Auto Body Mechanical & Electrical Srv. Service

Academic Level

Undergraduate

Description

A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams and troubleshooting.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ABDR2435 - Structural Analysis and Damage Repair IV

Course Title

Structural Analysis and Damage Repair IV

Academic Level

Undergraduate

Description

Continuation of skills development in the repair and replacement of major body units.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR1215 - Vehicle Trim and Hardware (2)

2026-2027 Catalog & Student Handbook

ABDR2447 - Advanced Collision Repair Welding

Course Title

Advanced Collision Repair Welding

Academic Level

Undergraduate

Description

Skill development in the use of advanced welding and cutting processes. Emphasizes current welding procedures and specific repair requirements for specialized metals.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)

2026-2027 Catalog & Student Handbook

ABDR2449 - Advanced Refinishing

Course Title

Advanced Refinishing

Academic Level

Undergraduate

Description

Application of multi-stage refinishing techniques. Advanced skill development solving refinishing problems. Application of multi-stage refinishing techniques with emphasis on formula mixing and special spraying techniques.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR1458 - Intermediate Refinishing (4)
 - ABDR1431 - Basic Refinishing (4)

2026-2027 Catalog & Student Handbook

ABDR2453 - Color Analysis and Paint Matching

Course Title

Color Analysis and Paint Matching

Academic Level

Undergraduate

Description

Advanced course in color theory, analysis, tinting, and blending techniques for acceptable paint matching.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ABDR2449 - Advanced Refinishing (4)
 - ABDR2551 - Specialized Refinishing Techniques (5)

2026-2027 Catalog & Student Handbook

ABDR2502 - Auto Body Mechanical and Electrical Service

Course Title

Auto Body Mechanical and Electrical Service

Academic Level

Undergraduate

Description

A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting.

Lecture Hours

3

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

144

Credits

5

Semester Credit Hours

5

Prerequisites

- Complete the following:
 - ABDR1307 - Collision Repair Welding (3)
 - ABDR1419 - Basic Metal Repair (4)
 - ABDR2435 - Structural Analysis and Damage Repair IV (4)

2026-2027 Catalog & Student Handbook

ABDR2551 - Specialized Refinishing Techniques

Course Title

Specialized Refinishing Techniques

Academic Level

Undergraduate

Description

Advanced topics in specialty automotive refinishing. Emphasis on refinishing plastics, fiberglass, aluminum, and galvanized panels as well as custom graphics and current industry innovations.

Lecture Hours

3

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

144

Credits

5

Semester Credit Hours

5

Prerequisites

- Complete the following:
 - ABDR1458 - Intermediate Refinishing (4)
 - ABDR1431 - Basic Refinishing (4)

Automated Office

2026-2027 Catalog & Student Handbook

POFI1001 - Computer Applications I

Course Title

Computer Applications I

Academic Level

Continuing Education

Description

Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

POFI1004 - Computer Fundamentals

Course Title

Computer Fundamentals

Academic Level

Continuing Education

Description

Computer applications specific to business-related software. Emphasizes the concurrent development of office skills and computer knowledge.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFI1005 - Intro. to Ms Publisher 2007

Course Title

Intro. to Ms Publisher 2007

Academic Level

Continuing Education

Description

Desktop publishing terminology, text editing, and use of design principles to create business documents.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

POFI1042 - Word Processing Applications II

Course Title

Word Processing Applications II

Academic Level

Continuing Education

Description

Word processing production techniques. Includes search and replace functions, headers and footers, mail merge, file functions, and printer setup.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFI1349 - Spreadsheets

Course Title

Spreadsheets

Academic Level

Undergraduate

Description

Skill development in concepts, procedures, and application of spreadsheets. This course is designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

POFI2037 - Word Processing Applications III

Course Title

Word Processing Applications III

Academic Level

Continuing Education

Description

Advanced instruction in document preparation, editing, and formatting. Emphasizes special problems encountered in business and industry.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFI2301 - Word Processing **Course Title**

Word Processing

Academic Level

Undergraduate

Description

Word processing software focusing on business applications. This course is designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Automation & Controls

2026-2027 Catalog & Student Handbook

AACT1371 - Electronics Fundamentals in Automation

Course Title

Electronics Fundamentals in Automation

Academic Level

Undergraduate

Description

An entry level course in electronics to include Ohm's law, Kirchhoff's laws, AC circuits, capacitance, inductance, and circuit analysis techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AACT1372 - Automation Safety and Compliance

Course Title

Automation Safety and Compliance

Academic Level

Undergraduate

Description

Introduction to safety procedures and practices relating to Automation Applications. Includes Lock/Out tag out training, Arc flash training, working with fluids training, first aid training and CPR certifications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AACT1373 - Administrative Skills for Technicians

Course Title

Administrative Skills for Technicians

Academic Level

Undergraduate

Description

An introductory course to automation administration skills. The course covers general office administration programs, equipment interpretation data, design of technical documentation and communication skills use in industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AACT1374 - Electronics Fundamentals in Automation II

Course Title

Electronics Fundamentals in Automation II

Academic Level

Undergraduate

Description

Advanced study of the fundamentals of electronics used in automation to include transistors, filters, diodes, IGBTs, SCRs and optic electronics, and encoders

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT1371 - Electronics Fundamentals in Automation (3)

2026-2027 Catalog & Student Handbook

AACT1375 - Principles of Motion, Measurement and Position I **Course Title**

Principles of Motion, Measurement and Position I

Academic Level

Undergraduate

Description

This course explores theoretical concepts in motor control. Emphasis in different systems design, protection control devices, close and open loop control. In-depth coverage of different motors designs and control systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT1371 - Electronics Fundamentals in Automation (3)

2026-2027 Catalog & Student Handbook

AACT1376 - Introduction to Process Control Devices

Course Title

Introduction to Process Control Devices

Academic Level

Undergraduate

Description

An introduction to automatic process control theory and the devices commonly used to control processes in the Instrumentation industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AACT2371 - Automation Control Systems Interfacing I

Course Title

Automation Control Systems Interfacing I

Academic Level

Undergraduate

Description

An introductory course to automation wiring to address industrial needs for connecting devices as they apply to industry. Includes basic interfacing programming, wiring methods, color coding identification, communications wiring and the troubleshooting of wiring faults in Automation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT1376 - Introduction to Process Control Devices (3)

2026-2027 Catalog & Student Handbook

AACT2372 - Automation Control Systems Interfacing II **Course Title**

Automation Control Systems Interfacing II

Academic Level

Undergraduate

Description

This course explores theoretical concepts of communications protocols programming. Emphasis in connecting devices as they apply to industry, and concepts of networking, data collection, and troubleshooting of Industrial Networks.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT2371 - Automation Control Systems Interfacing I (3)

2026-2027 Catalog & Student Handbook

AACT2373 - Factory I/O

Course Title

Factory I/O

Academic Level

Undergraduate

Description

A capstone course that provides students the opportunity to apply the knowledge and skills gained in the program. The course will be taken after completing specific specialized courses in the program to include programmable logic controller, Automation Control Systems Interfacing and Application of Industrial Automatic Controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT2376 - PLC Automation I (3)

2026-2027 Catalog & Student Handbook

AACT2374 - PLC Automation II

Course Title

PLC Automation II

Academic Level

Undergraduate

Description

Advanced applications of programmable logic controllers as used in automated manufacturing utilizing various programming techniques and protocols. Emphasis on device interconnectivity, design, implementation, troubleshooting, and interfacing to equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT2376 - PLC Automation I (3)

2026-2027 Catalog & Student Handbook

AACT2375 - Principles of Motion, Measurement and Position II

Course Title

Principles of Motion, Measurement and Position II

Academic Level

Undergraduate

Description

This course covers the principles of motion control devices used in industry. Topics include the design, development, and current applications of motion control devices systems including their configuration, operation, and control. Upon completion students will be able to wire and program different control devices used in automation for motion control.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT2371 - Automation Control Systems Interfacing I (3)

2026-2027 Catalog & Student Handbook

AACT2376 - PLC Automation I

Course Title

PLC Automation I

Academic Level

Undergraduate

Description

Basic course in programmable logic controller with emphasis on automated systems. In-depth coverage of hardware identification, basic ladder programming and basic wiring of inputs and outputs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AACT1375 - Principles of Motion, Measurement and Position I (3)

Automotive

AUMT1001 - Vehicle Maintenance & Services

Course Title

Vehicle Maintenance & Services

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

AUMT1166 - Practicum (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician Course Title

Practicum (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

This course is taught by the manufacturer programs, with Min-Max 30-40 hours a week for 7 weeks

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

8

Total Contact Hours

128

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

AUMT1167 - Practicum (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician Course Title

Practicum (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

This course is taught by the manufacturer programs, with Min-Max 30-40 hours a week for 7 weeks.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

8

Total Contact Hours

128

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

AUMT1201 - Introduction and Theory of Automotive Technology

Course Title

Introduction and Theory of Automotive Technology

Academic Level

Undergraduate

Description

An introductory overview of the automotive service industry including history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and automobile maintenance.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

AUMT1249 - Automotive Electronics Theory

Course Title

Automotive Electronics Theory

Academic Level

Undergraduate

Description

A course in automotive technology including electrical principles, semiconductor and integrated circuits, digital fundamentals, microcomputer systems, and electrical test equipment.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AUMT1266 - Practicum-Automotive/Auto Mechanics Tech **Course Title**

Practicum-Automotive/Auto Mechanics Tech

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

20

Total Contact Hours

320

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AUMT1280 - Cooperative Education- Automobile/ Automotive Mechanics Technology/Tech Course Title

Cooperative Education- Automobile/ Automotive Mechanics Technology/Tech

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

This course is taught by the manufacturer programs, with Min-Max 30-40 hours a week for 7 weeks

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

160

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AUMT1281 - Cooperative Education- Automobile/ Automotive Mechanics Technology/Tech Course Title

Cooperative Education- Automobile/ Automotive Mechanics Technology/Tech

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

10

Total Contact Hours

176

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AUMT1305 - Introduction to Automotive Technology

Course Title

Introduction to Automotive Technology

Academic Level

Undergraduate

Description

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AUMT1307 - Automotive Electrical Systems

Course Title

Automotive Electrical Systems

Academic Level

Undergraduate

Description

An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service publications. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AUMT1310 - Automotive Brake Systems

Course Title

Automotive Brake Systems

Academic Level

Undergraduate

Description

Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AUMT1312 - Basic Automotive Service

Course Title

Basic Automotive Service

Academic Level

Undergraduate

Description

Basic automotive service. Includes compliance with safety and hazardous material handling procedures and maintenance of shop equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AUMT1319 - Automotive Engine Repair

Course Title

Automotive Engine Repair

Academic Level

Undergraduate

Description

Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AUMT1345 - Automotive Climate Control Systems

Course Title

Automotive Climate Control Systems

Academic Level

Undergraduate

Description

Diagnosis and repair of manual/electronic climate control systems. Includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Completed or concurrently enrolled in:
 - AUMT1307 - Automotive Electrical Systems (3)
 - Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)

2026-2027 Catalog & Student Handbook

AUMT1380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician **Course Title**

Cooperative Education - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

This course is the technical elective for the AUT.MLR.CER1 with a minimum requirement of 15 hours per week for 15 weeks.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

14

Total Contact Hours

240

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT1310 - Automotive Brake Systems (3)

Corequisites

- Completed or concurrently enrolled in:
 - AUMT1310 - Automotive Brake Systems (3)

2026-2027 Catalog & Student Handbook

AUMT1407 - Automotive Electrical Systems

Course Title

Automotive Electrical Systems

Academic Level

Undergraduate

Description

An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service manuals. May be taught manufacturer specific. null null

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

AUMT1410 - Automotive Brake Systems

Course Title

Automotive Brake Systems

Academic Level

Undergraduate

Description

Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions. null null

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AUMT1416 - Automotive Suspension and Steering Systems

Course Title

Automotive Suspension and Steering Systems

Academic Level

Undergraduate

Description

Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures and tire and wheel service. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AUMT1419 - Automotive Engine Repair

Course Title

Automotive Engine Repair

Academic Level

Undergraduate

Description

Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, and disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)
 - AUMT1307 - Automotive Electrical Systems (3)

2026-2027 Catalog & Student Handbook

AUMT1471 - Introduction and Theory of Tesla Vehicles

Course Title

Introduction and Theory of Tesla Vehicles

Academic Level

Undergraduate

Description

This course is intended to educate the entry -level technician to the Tesla Motors advanced automotive technology. Topics studied will include , but not limited to: safety when working with or around high voltage systems, basic electrical systems, basic vehicle service procedures, and applying soft skills used in the Tesla automotive field.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AUMT1472 - Automotive Electrical, Chassis, Driver Assist Systems Theory **Course Title**

Automotive Electrical, Chassis, Driver Assist Systems Theory

Academic Level

Undergraduate

Description

This course is intended to educate the entry -level technician to the Tesla Motors advanced automotive technology. Topics studied will include , but not limited to: safety when working with or around high voltage systems, regeneration braking, electric vehicle applications and their integrated systems.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AUMT1473 - Automotive Electronics Theory

Course Title

Automotive Electronics Theory

Academic Level

Undergraduate

Description

This course is intended to educate the entry -level technician to the Tesla Motors advanced automotive technology. Topics studied will include , but not limited to: safety when working with or around high voltage systems, inverter power transfer, battery technologies, battery management systems, High Voltage Bus & Charging, Pack Connector & Penthouse controls and Autonomous technology.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AUMT1474 - Infotainment Systems and Service Center Skills

Course Title

Infotainment Systems and Service Center Skills

Academic Level

Undergraduate

Description

This course is intended to educate the entry-level technician to the Tesla Motors advanced automotive technology. Topics studied will include , but not limited to: safety when working with or around high voltage systems, infotainment systems and subsystems. Work activities at the Tesla Service Center.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

AUMT2030 - Auto Steering & Suspension

Course Title

Auto Steering & Suspension

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

AUMT2035 - Auto Service Excellence-Ase

Course Title

Auto Service Excellence-Ase

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

AUMT2188 - Internship - Automobile/Automotive Mechanics Technology/Technician

Course Title

Internship - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

This course is taught by the manufacturer programs, with Min-Max 30-40 hours a week for 7 weeks.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

AUMT2189 - Internship - Automobile/Automotive Mechanics Technology/Technician **Course Title**

Internship - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

This course is taught by the manufacturer programs, with Min-Max 30-40 hours a week for 7 weeks.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)

Corequisites

- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)

2026-2027 Catalog & Student Handbook

AUMT2266 - Practicum - Automotive/Auto Mechanics Te **Course Title**

Practicum - Automotive/Auto Mechanics Te

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

20

Total Contact Hours

320

Credits

2

Semester Credit Hours

2

AUMT2288 - Internship - Automobile/Automotive Mechanics Technology/Technician **Course Title**

Internship - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AUMT2289 - Internship (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician **Course Title**

Internship (or Field Experience) - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

2

Semester Credit Hours

2

AUMT2301 - Automotive Management **Course Title**

Automotive Management

Academic Level

Undergraduate

Description

Study of human and customer relations, and customer satisfaction in the automotive service industry. Emphasis on management and building relationships between the service department and the customer. null null

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AUMT2302 - Automotive Compression Ignition Engines & Fuel Systems

Course Title

Automotive Compression Ignition Engines & Fuel Systems

Academic Level

Undergraduate

Description

Diagnosis and repair of modern light-duty automotive compression ignition engines and related systems. Includes the use of advanced engine performance diagnostic equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - AUMT1419 - Automotive Engine Repair (4)

2026-2027 Catalog & Student Handbook

AUMT2307 - Hybrid Systems Diagnostics

Course Title

Hybrid Systems Diagnostics

Academic Level

Undergraduate

Description

An advanced study of hybrid and/or battery electric vehicles (BEV) and the unique characteristics of hybrid and/or BEV systems. Includes hybrid and/or BEV safety procedures, diagnosis, and repair of hybrid and/or BEV systems. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
 - AUMT2417 - Automotive Engine Performance Analysis I (4)

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AUMT2310 - Automotive Service Consultant

Course Title

Automotive Service Consultant

Academic Level

Undergraduate

Description

Automotive service consulting skills and procedures. Includes vehicle identification, product knowledge, shop operations, warranty service contracts, communications, customer relations, internal relations, and sales skills. Emphasizes courtesy, professionalism, and communications.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

AUMT2313 - Automotive Drive Train and Axles

Course Title

Automotive Drive Train and Axles

Academic Level

Undergraduate

Description

A study of automotive clutches, clutch operation devices, manual transmissions/ transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AUMT2321 - Automotive Electrical Diagnosis and Repair **Course Title**

Automotive Electrical Diagnosis and Repair

Academic Level

Undergraduate

Description

Repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - AUMT1307 - Automotive Electrical Systems (3)

2026-2027 Catalog & Student Handbook

AUMT2328 - Automotive Service

Course Title

Automotive Service

Academic Level

Undergraduate

Description

Mastery of automotive service including competencies covered in related courses. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT2413 - Automotive Drive Train and Axles (4)
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)

2026-2027 Catalog & Student Handbook

AUMT2337 - Automotive Electronics

Course Title

Automotive Electronics

Academic Level

Undergraduate

Description

Study of electronic principles applied to microcomputers and communication systems. Includes digital fundamentals, and use of electronic test equipment. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)

Corequisites

- Complete the following:

2026-2027 Catalog & Student Handbook

AUMT2357 - Automotive Alternative Fuels

Course Title

Automotive Alternative Fuels

Academic Level

Undergraduate

Description

A study of the composition and use of various alternative automobile fuels including retrofit procedures and applications, emission standards, availability, and cost effectiveness. Overview of federal and state regulations concerning fuels.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AUMT2378 - Alternative Energy and Propulsion Systems

Course Title

Alternative Energy and Propulsion Systems

Academic Level

Undergraduate

Description

An advanced study of hybrid and/or battery electric vehicles (BEV), diesel, and hydrogen-fuel cell propulsion systems. Including emissions, safety, fueling, and advancements in vehicle technology.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT2337 - Automotive Electronics (3)

Corequisites

- Concurrently enrolled in:
 - AUMT2337 - Automotive Electronics (3)

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AUMT2380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician **Course Title**

Cooperative Education - Automobile/Automotive Mechanics Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

This course is the technical elective for AUT.PBE.AAS & AUT.PBE.CER2 with a minimum of 20 hours per week for 15 weeks

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)

2026-2027 Catalog & Student Handbook

AUMT2407 - Hybrid Systems Diagnostics

Course Title

Hybrid Systems Diagnostics

Academic Level

Undergraduate

Description

An advanced study of hybrid vehicles and the unique characteristics of hybrid systems. Includes hybrid safety procedures and diagnosis and repair of hybrid systems.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

AUMT2413 - Automotive Drive Train and Axles

Course Title

Automotive Drive Train and Axles

Academic Level

Undergraduate

Description

A study of automotive clutches, clutch operation devices, manual transmissions/ transaxles, and differentials with emphasis on diagnosis and repair. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

AUMT2417 - Automotive Engine Performance Analysis I **Course Title**

Automotive Engine Performance Analysis I

Academic Level

Undergraduate

Description

Theory, operation, diagnosis of drivability concerns, and repair of ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete all of the following
 - Complete the following:
 - AUMT1305 - Introduction to Automotive Technology (3)
 - AUMT1307 - Automotive Electrical Systems (3)
 - Completed or concurrently enrolled in:
 - AUMT1419 - Automotive Engine Repair (4)

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AUMT2425 - Automatic Transmission and Transaxle

Course Title

Automatic Transmission and Transaxle

Academic Level

Undergraduate

Description

A study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete all of the following
 - Complete the following:
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
 - Completed or concurrently enrolled in:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)

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AUMT2434 - Automotive Engine Performance Analysis II

Course Title

Automotive Engine Performance Analysis II

Academic Level

Undergraduate

Description

Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)
 - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)

Corequisites

- Complete the following:
 - AUMT2417 - Automotive Engine Performance Analysis I (4)

2026-2027 Catalog & Student Handbook

AUMT2457 - Automotive Alternative Fuels

Course Title

Automotive Alternative Fuels

Academic Level

Undergraduate

Description

A study of the composition and use of various alternative automobile fuels including retrofit procedures and applications, emission standards, availability, and cost effectiveness. Overview of federal and state regulations concerning fuels.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

AUMT2470 - Automotive Compression Ignition Engines & Fuel Systems

Course Title

Automotive Compression Ignition Engines & Fuel Systems

Academic Level

Undergraduate

Description

Diagnosis and repair of modern light-duty automotive compression ignition engines, air induction systems, fuel systems, and exhaust after treatment systems. Emphasis is placed on the differences between diagnosis and repair of spark-ignition engine systems and compression ignition engine systems.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

AUMT2575 - Transmissions and Drive Trains

Course Title

Transmissions and Drive Trains

Academic Level

Undergraduate

Description

A study of automotive clutches, clutch operation devices, transmissions/ transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions.

Lecture Hours

3

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

5

Semester Credit Hours

5

Prerequisites

- Complete the following:
 - AUMT2337 - Automotive Electronics (3)

Corequisites

- Completed or concurrently enrolled in:
 - AUMT2337 - Automotive Electronics (3)

Aviation

2026-2027 Catalog & Student Handbook

AVIM1090 - Special Topics in Aviation and Airway Sc

Course Title

Special Topics in Aviation and Airway Sc

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

AVIM1391 - Special Topics in Aviation Management

Course Title

Special Topics in Aviation Management

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AVIM2337 - Aviation Law

Course Title

Aviation Law

Academic Level

Undergraduate

Description

A study of domestic and international aviation law.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Aviation/Aircraft Maintenance

AERM1091 - Special Topics in Aircraft Mechanic/ Technician Airframe

Course Title

Special Topics in Aircraft Mechanic/ Technician Airframe

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

AERM1092 - Special Topics in Aircraft Mechanic/ Technician Powerplant **Course Title**

Special Topics in Aircraft Mechanic/ Technician Powerplant

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

60

Semester Credit Hours

0

AERM1107 - Aviation Mathematics **Course Title**

Aviation Mathematics

Academic Level

Undergraduate

Description

Fundamentals of mathematics applied to aircraft principles and operations as required by the Federal Aviation Administration for airframe and powerplant mechanics. null null

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

AERM1109 - Aviation Physics

Course Title

Aviation Physics

Academic Level

Undergraduate

Description

Fundamentals of physics applied to aircraft principles and operations as required by the Federal Aviation Administration for airframe and powerplant mechanics.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

AERM1112 - Aviation Drawings

Course Title

Aviation Drawings

Academic Level

Undergraduate

Description

Fundamentals of aviation drawings applied to aircraft principles and operations as required by the Federal Aviation Administration for airframe and powerplant mechanics.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

AERM1153 - Aircraft Welding

Course Title

Aircraft Welding

Academic Level

Undergraduate

Description

Skill development in repair procedures for steel, magnesium, brass, and aluminum materials. Includes the selection and application of appropriate methods of welding, brazing, and soldering. Fundamentals of safety procedures also addressed.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - AERM1203 - Shop Practices (2)

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AERM1203 - Shop Practices

Course Title

Shop Practices

Academic Level

Undergraduate

Description

An introduction to shop safety, the correct use of hand tools, equipment and precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AERM1205 - Weight and Balance

Course Title

Weight and Balance

Academic Level

Undergraduate

Description

An introduction to Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight and balance calculations, and appropriate maintenance record entries.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

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AERM1208 - Federal Aviation Regulations

Course Title

Federal Aviation Regulations

Academic Level

Undergraduate

Description

A course in the use and understanding of Federal Aviation Administration (FAA) and aircraft manufacturers' publications, forms, and records; and the exercise of mechanic privileges within prescribed limitations.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AERM1210 - Ground Operations

Course Title

Ground Operations

Academic Level

Undergraduate

Description

An introductory course in fuels, servicing methods, safety procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AERM1240 - Aircraft Propellers

Course Title

Aircraft Propellers

Academic Level

Undergraduate

Description

Fundamentals of propeller design, function, and construction. Skill development in inspection, servicing, and repair of fixed-pitch, constant-speed, and feathering propellers and governing systems. Instruction in removal, balancing, and installation of propellers and fundamentals of safety are also addressed.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

2026-2027 Catalog & Student Handbook

AERM1241 - Wood, Fabric, and Finishes

Course Title

Wood, Fabric, and Finishes

Academic Level

Undergraduate

Description

A course in the use and care of various covering materials, finishes, and wood structures including approved methods and procedures. Safety also addressed.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AERM1243 - Instruments and Navigation/Communication

Course Title

Instruments and Navigation/Communication

Academic Level

Undergraduate

Description

A study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete at least 1 of the following:
 - AERM1314 - Basic Electricity (3)
 - AERM1414 - Basic Electricity (4)

2026-2027 Catalog & Student Handbook

AERM1247 - Airframe Auxiliary Systems

Course Title

Airframe Auxiliary Systems

Academic Level

Undergraduate

Description

A comprehensive study of airframe auxiliary systems including cabin atmospheric control systems, ice and rain control systems for aircraft and engines, and fire detection and protection systems. Fundamentals of safety procedures also addressed.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AERM1253 - Aircraft Welding

Course Title

Aircraft Welding

Academic Level

Undergraduate

Description

Skill development in repair procedures for steel, magnesium, brass, and aluminum materials. Includes the selection and application of appropriate methods of welding, brazing, and soldering. Fundamentals of safety procedures also addressed.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AERM1254 - Aircraft Composites

Course Title

Aircraft Composites

Academic Level

Undergraduate

Description

Comprehensive concepts of the inspection and repair of composite, fabric, core, and laminated structural materials including doors, windows, bonded structures, and interior furnishings. Safety procedures to include the handling and storage of composite materials will also be addressed.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AERM1314 - Basic Electricity

Course Title

Basic Electricity

Academic Level

Undergraduate

Description

A study of aircraft electrical systems and their requirements including the use of ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions. Fundamentals of electrical safety also addressed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AERM1315 - Aviation Science

Course Title

Aviation Science

Academic Level

Undergraduate

Description

Fundamentals of mathematics, physics, and drawings as they apply to aircraft principles and operations as required by the Federal Aviation Administration (FAA) for airframe and powerplant mechanics.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AERM1340 - Aircraft Propellers

Course Title

Aircraft Propellers

Academic Level

Undergraduate

Description

Fundamentals of propeller design, function, and construction. Skill development in inspection, servicing, and repair of fixed-pitch, constant-speed, and feathering propellers and governing systems. Instruction in removal, balancing, and installation of propellers and fundamentals of safety are also addressed. null null

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AERM1343 - Instruments and Navigation/Communication **Course Title**

Instruments and Navigation/Communication

Academic Level

Undergraduate

Description

A study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AERM1344 - Aircraft Reciprocating Engines

Course Title

Aircraft Reciprocating Engines

Academic Level

Undergraduate

Description

A study of reciprocating engines and their development, operating principles, and theory. Instruction in engine instruments, lubricating, and exhaust systems. Fundamentals of safety will also be addressed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AERM1345 - Airframe Electrical Systems

Course Title

Airframe Electrical Systems

Academic Level

Undergraduate

Description

A study of airframe electrical systems including installation, removal, disassembly, and repair of electrical components and related wiring. Fundamentals of electrical safety also addressed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AERM1314 - Basic Electricity (3)
 - AERM1414 - Basic Electricity (4)

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AERM1347 - Airframe Auxiliary Systems

Course Title

Airframe Auxiliary Systems

Academic Level

Undergraduate

Description

Skill development in repair procedures for steel, magnesium, brass, and aluminum materials. Includes the selection and application of appropriate methods of welding, brazing, and soldering. Fundamentals of safety procedures also addressed.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete 1 of the following
 - Complete the following:
 - AERM1315 - Aviation Science (3)
 - AERM1314 - Basic Electricity (3)
 - Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1414 - Basic Electricity (4)

2026-2027 Catalog & Student Handbook

AERM1350 - Landing Gear Systems

Course Title

Landing Gear Systems

Academic Level

Undergraduate

Description

General principles of inspection, servicing, overhaul, and repair of fixed and retractable landing gear systems and the operation and repair of position and warning systems. Includes coverage of systems, components, operation, and fundamentals of safety procedures.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AERM1351 - Aircraft Turbine Engine Theory

Course Title

Aircraft Turbine Engine Theory

Academic Level

Undergraduate

Description

General principles of theory, history, and servicing of turbine engines to include lubrication, instrumentation, auxiliary power units, and exhaust systems. Fundamentals of safety procedures are also addressed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

2026-2027 Catalog & Student Handbook

AERM1352 - Aircraft Sheet Metal

Course Title

Aircraft Sheet Metal

Academic Level

Undergraduate

Description

Skill development in inspection and repair of sheet metal structures including forming, lay out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners. Fundamentals of safety procedures also addressed.

Lecture Hours

1

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - AERM1107 - Aviation Mathematics (1)
 - AERM1112 - Aviation Drawings (1)
 - AERM1203 - Shop Practices (2)
 - Complete at least 1 of the following:
 - AERM1203 - Shop Practices (2)
 - AERM1315 - Aviation Science (3)

2026-2027 Catalog & Student Handbook

AERM1356 - Aircraft Powerplant Electrical **Course Title**

Aircraft Powerplant Electrical

Academic Level

Undergraduate

Description

General principles of theory, operation, and maintenance of powerplant electrical systems including ignition, starting, and fire protection systems. Fundamentals of safety procedures will also be addressed.

Lecture Hours

1

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AERM1314 - Basic Electricity (3)
 - AERM1414 - Basic Electricity (4)

2026-2027 Catalog & Student Handbook

AERM1357 - Fuel Metering and Induction Systems

Course Title

Fuel Metering and Induction Systems

Academic Level

Undergraduate

Description

Skill development in fuel metering and induction systems used on reciprocating and turbine engines including fuel metering systems, carburetors, induction systems, heat exchangers, and cooling systems. Fundamentals of safety procedures will also be addressed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

2026-2027 Catalog & Student Handbook

AERM1414 - Basic Electricity

Course Title

Basic Electricity

Academic Level

Undergraduate

Description

A study of aircraft electrical systems and their voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions. Fundamentals of safety also addressed.

Lecture Hours

2

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

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AERM1444 - Aircraft Reciprocating Engines

Course Title

Aircraft Reciprocating Engines

Academic Level

Undergraduate

Description

Reciprocating engines, their development, operating principles, and theory. Includes engine instruments, lubrication, and exhaust systems. Also addresses fundamentals of safety.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

2026-2027 Catalog & Student Handbook

AERM1449 - Hydraulic, Pneumatic, and Fuel Systems

Course Title

Hydraulic, Pneumatic, and Fuel Systems

Academic Level

Undergraduate

Description

Skill development in inspecting, servicing, and maintaining aircraft fluid systems including hydraulics, pneumatics, and fuel. Application of concepts through detailed maintenance procedures. Fundamentals of safety procedures also addressed.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

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AERM1452 - Aircraft Sheet Metal

Course Title

Aircraft Sheet Metal

Academic Level

Undergraduate

Description

Skill development in inspection and repair of sheet metal structures including forming, lay out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners. Fundamentals of safety procedures also addressed.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

AERM1456 - Aircraft Powerplant Electrical

Course Title

Aircraft Powerplant Electrical

Academic Level

Undergraduate

Description

General principles of theory, operation, and maintenance of powerplant electrical systems including ignition, starting, and fire protection systems. Fundamentals of safety procedures will also be addressed.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AERM2230 - FAA Review - Airframe **Course Title**

FAA Review - Airframe

Academic Level

Undergraduate

Description

Review of Federal Aviation Administration subject matter in the General and Airframe curricula with an emphasis on enhancing knowledge and physical skills in preparing for the FAA-required computer, oral and practical examinations.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AERM2231 - Airframe Inspection

Course Title

Airframe Inspection

Academic Level

Undergraduate

Description

In-depth coverage of methods and procedures to perform airframe conformity and air worthiness inspections (including One Hundred Hour Inspections) in accordance with Federal Aviation Regulations and manufacturer's service information. Safety procedures will also be addressed.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AERM2234 - FAA Review - Powerplant

Course Title

FAA Review - Powerplant

Academic Level

Undergraduate

Description

Federal Aviation Administration subject matter in the General and Powerplant curricula with an emphasis on enhancing knowledge and physical skills in preparing for the FAA-required computer, oral, and powerplant examinations.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AERM2333 - Assembly and Rigging **Course Title**

Assembly and Rigging

Academic Level

Undergraduate

Description

A comprehensive study of the assembly and rigging of fixed and rotary-wing aircraft including structural alignment, balancing and rigging of control systems, and assembly of aircraft components. Fundamentals of safety procedures are also addressed.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

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AERM2341 - Powerplant and Auxiliary Power Units

Course Title

Powerplant and Auxiliary Power Units

Academic Level

Undergraduate

Description

Advanced concepts of auxiliary power unit (APU) and powerplant systems and components. Safety procedures will also be addressed.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AERM1109 - Aviation Physics (1)
 - AERM1315 - Aviation Science (3)

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AERM2351 - Aircraft Turbine Engine Overhaul

Course Title

Aircraft Turbine Engine Overhaul

Academic Level

Undergraduate

Description

Comprehensive study in inspection, disassembly, reassembly, and replacement of gas turbine engines, sections, and components including operational troubleshooting, analysis, and safety.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AERM1351 - Aircraft Turbine Engine Theory (3)

2026-2027 Catalog & Student Handbook

AERM2352 - Aircraft Powerplant Inspection

Course Title

Aircraft Powerplant Inspection

Academic Level

Undergraduate

Description

In depth coverage of methods and procedures to perform powerplant conformity and airworthiness inspections (including one hundred hour inspections) in accordance with Federal Aviation Regulations and manufacturer's information. Safety procedures will also be addressed.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AERM2447 - Aircraft Reciprocating Engine Overhaul

Course Title

Aircraft Reciprocating Engine Overhaul

Academic Level

Undergraduate

Description

A comprehensive study of reciprocating engine overhaul including measurement and inspection procedures. Instruction in removal and installation, inspections, checks, servicing, repair of engines, and safety procedures will also be addressed.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - AERM1444 - Aircraft Reciprocating Engines (4)

Aviation/Pilot, Flight Instruc

2026-2027 Catalog & Student Handbook

AIRP1015 - Private Flight

Course Title

Private Flight

Academic Level

Continuing Education

Description

Flight training to prepare the student for the completion of the Federal Aviation Administration private pilot certificate, including dual and solo flight in the areas of maneuvers and cross-country navigation.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

AIRP1017 - Private Pilot Ground School

Course Title

Private Pilot Ground School

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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AIRP1175 - Intermediate Flight

Course Title

Intermediate Flight

Academic Level

Undergraduate

Description

Provides students with flight hours and skills necessary to fulfill solo cross-country hours required for the Federal Aviation Administration Commercial Pilot, single engine land, airplane certificate.

Additional Course Information

58 flight hours (primary trainer), 15 hours of flight instruction, 10 hours of Pre-flight, Post-flight, and Ground instruction.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - AIRP1215 - Private Flight (2)

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AIRP1215 - Private Flight **Course Title**

Private Flight

Academic Level

Undergraduate

Description

Flight and ground training to prepare the student for the completion of the Federal Aviation Administration private pilot certificate.

Additional Course Information

58 flight hours (primary trainer), 52 hours of flight instruction, 45 hours of Pre-flight, Post-flight, and Ground instruction.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

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AIRP1255 - Intermediate Flight **Course Title**

Intermediate Flight

Academic Level

Undergraduate

Description

Provides students with flight hours and skills necessary to fulfill solo cross-country hours required for the Federal Aviation Administration Commercial Pilot, single engine land, airplane certificate.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AIRP1275 - Aviation Safety **Course Title**

Aviation Safety

Academic Level

Undergraduate

Description

A study of the fundamentals essential to the safety of flight. A survey of the aviation industry including decision-making factors, accident reporting, accident investigation, air traffic systems, aircraft technologies, and accident case studies.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AIRP1301 - Air Navigation

Course Title

Air Navigation

Academic Level

Undergraduate

Description

Instruction in Visual Flight rules navigation in the National Airspace System. Topics include, flight computers, plotters, and navigation logs and publications. Qualifies as part of a program leading to Federal Aviation Administration Private Pilot certification.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP1307 - Aviation Meteorology

Course Title

Aviation Meteorology

Academic Level

Undergraduate

Description

In-depth coverage of meteorological phenomena affecting aircraft flight. Topics include basic concepts of aviation meteorology in the study of temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, and fog. Also includes analysis and use of weather data for flight planning.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

AIRP1313 - Introduction to Aviation

Course Title

Introduction to Aviation

Academic Level

Undergraduate

Description

A study of the historical development of the aviation industry, including key events in civil, military, and space exploration and an overview of legislation relating to aviation.

Lecture Hours

3

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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AIRP1341 - Advanced Air Navigation

Course Title

Advanced Air Navigation

Academic Level

Undergraduate

Description

Skill development in advanced airplane systems and performance including radio navigation and cross-country flight planning. Includes an introduction to instrument flight operations and navigation. This course may be used as part of a program leading to Federal Aviation Administration certification.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

AIRP1343 - Aerodynamics

Course Title

Aerodynamics

Academic Level

Undergraduate

Description

Study of the general principles of the physical laws of flight. Topics include physical terms and the four forces of flight: lift, weight, thrust, and drag. Aircraft design, stability control, and high-speed flight characteristics are also included.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP1345 - Aviation Safety **Course Title**

Aviation Safety

Academic Level

Undergraduate

Description

A study of the fundamentals essential to the safety of flight. A survey of the aviation industry including decision-making factors, accident reporting, accident investigation, air traffic systems, and aircraft technologies.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP1373 - Helicopter Aerodynamics

Course Title

Helicopter Aerodynamics

Academic Level

Undergraduate

Description

Study of the General Principles of the Physical Laws of Flight. Topics Include Physical Terms and the Four Forces of Flight, Lift, Weight, Thrust, and Drag, Helicopter Design, Aerodynamic forces on rotor airfoils, Stability Control and stability/controllability characteristics, hazardous flight conditions, and overlapping fixed-wing aerodynamics similarities.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP1417 - Private Pilot Ground School

Course Title

Private Pilot Ground School

Academic Level

Undergraduate

Description

Basic ground school for the Federal Aviation Administration Private Pilot Certificate, providing the student with the necessary aeronautical knowledge that can be used for private pilot certification. Topics include principles of flight, radio procedures, weather, navigation, aerodynamics, and Federal Aviation Administration regulations.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AIRP1451 - Instrument Ground School

Course Title

Instrument Ground School

Academic Level

Undergraduate

Description

A study of basic instrument radio and navigation fundamentals used in instrument flight. Topics include a description and practical use of navigation systems and instruments, charts used for instrument flight, and Federal Aviation Administration regulations. Qualifies as part of a program leading to Federal Aviation Administration certification.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

AIRP1471 - Helicopter Instrument Ground School

Course Title

Helicopter Instrument Ground School

Academic Level

Undergraduate

Description

A study of basic instrument radio and navigation fundamentals used in instrument helicopter flight. Topics include a description and practical use of navigation systems and instruments, charts used for instrument flight, and Federal Aviation Administration regulations. Qualifies as part of a program leading to Federal Aviation Administration certification.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

AIRP2039 - Commercial Flight

Course Title

Commercial Flight

Academic Level

Continuing Education

Description

Flight instruction necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student for mastery of all commercial pilot maneuvers.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

AIRP2043 - Flight Instructor - Multiengine Airplane

Course Title

Flight Instructor - Multiengine Airplane

Academic Level

Continuing Education

Description

Flight instruction necessary to qualify for the Federal Aviation Administration Flight Instructor - Multiengine Airplane Rating. Includes combined ground and flight instruction and analysis of flight maneuvers.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

AIRP2050 - Instrument Flight

Course Title

Instrument Flight

Academic Level

Continuing Education

Description

Preparation for completion of the Federal Aviation Administration Instrument Pilot Rating with mastery of all instrument flight procedures.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

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AIRP2051 - Multiengine Flight

Course Title

Multiengine Flight

Academic Level

Continuing Education

Description

Preparation for the multiengine class rating which will be added to a current pilot certificate. Includes explanation and demonstration of all required Federal Aviation Administration normal and emergency operations and procedures.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

AIRP2151 - Multiengine Flight

Course Title

Multiengine Flight

Academic Level

Undergraduate

Description

Preparation for the multiengine class rating which will be added to a current pilot certificate. Includes explanation and demonstration of all required Federal Aviation Administration normal and emergency operations and procedures.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

AIRP2172 - Flight Instructor-Instrument Helicopter **Course Title**

Flight Instructor-Instrument Helicopter

Academic Level

Undergraduate

Description

Skill development in the fundamentals of teaching and learning in a helicopter oriented environment. Introduction to the techniques of instruction and analysis of helicopter flight maneuvers. Topics include helicopter flight instructor responsibilities and Federal Aviation Regulations relating to the instructor rating.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

AIRP2175 - Human Factors in Aviation **Course Title**

Human Factors in Aviation

Academic Level

Undergraduate

Description

Instruction in flight physiology, the decision-making process, pilot health maintenance, psychological aspects of flight, human behavior as related to the aircraft flight deck, and aeromedical information of significance to flight crews.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Credits

1

Semester Credit Hours

1

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AIRP2236 - Certified Flight Instructor - Flight Course Title

Certified Flight Instructor - Flight

Academic Level

Undergraduate

Description

Flight and ground instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor - Airplane certificate.

Additional Course Information

30 flight hours (primary trainer), 30 hours of flight instruction, 28 hours of Pre-flight, Post-flight, and Ground instruction.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - AIRP2239 - Commercial Flight (2)

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AIRP2239 - Commercial Flight

Course Title

Commercial Flight

Academic Level

Undergraduate

Description

Flight instruction necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student to perform commercial pilot maneuvers.

Additional Course Information

50 flight hours (primary Trainer), 28 flight hours (complex trainer), 78 hours of flight instruction, 46.8 hours of Pre-flight, Post-flight, and Ground instruction.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - AIRP2250 - Instrument Flight (2)

2026-2027 Catalog & Student Handbook

AIRP2242 - Flight Instrument-Instruction Airplane **Course Title**

Flight Instrument-Instruction Airplane

Academic Level

Undergraduate

Description

Flight and ground instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor--Instrument Airplane certificate.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

AIRP2250 - Instrument Flight

Course Title

Instrument Flight

Academic Level

Undergraduate

Description

Preparation for completion of the Federal Aviation Administration Instrument Pilot Rating with mastery of all instrument flight procedures.

Additional Course Information

54 flight hours (primary trainer), 54 hours of flight instruction, 51 hours of Pre-flight, Post-flight, and Ground instruction.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - AIRP1215 - Private Flight (2)

2026-2027 Catalog & Student Handbook

AIRP2251 - Multiengine Flight

Course Title

Multiengine Flight

Academic Level

Undergraduate

Description

Preparation for the multiengine class rating which will be added to a current pilot certificate. Includes explanation and demonstration of all required Federal Aviation Administration normal and emergency operations and procedures.

Additional Course Information

20 flight hours (multi-engine trainer), 20 hours of flight instruction, 22 hours of Pre-flight, Post-flight, and Ground instruction.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - AIRP2239 - Commercial Flight (2)

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AIRP2273 - Helicopter Commercial Flight Course Title

Helicopter Commercial Flight

Academic Level

Undergraduate

Description

Helicopter flight instruction necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student to perform commercial helicopter pilot maneuvers.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AIRP2274 - Helicopter Certified Flight Instructor Course Title

Helicopter Certified Flight Instructor

Academic Level

Undergraduate

Description

Helicopter flight and ground school instruction required to qualify for the Federal Aviation Administration Certified Flight Instructor-Helicopter certificate.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

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AIRP2275 - Agricultural Aircraft Operations Flight **Course Title**

Agricultural Aircraft Operations Flight

Academic Level

Undergraduate

Description

Flight and ground training to prepare the student for safe agricultural aerial application operations. The student will meet requirements for 14 CFR 137.19(e) upon completion of the course.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

AIRP2331 - Advanced Meteorology **Course Title**

Advanced Meteorology

Academic Level

Undergraduate

Description

Preparation for advanced aviation students to apply knowledge of varying meteorological factors including weather hazards to flight, techniques for minimizing weather hazards, and aviation weather services.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2333 - Aircraft Systems

Course Title

Aircraft Systems

Academic Level

Undergraduate

Description

Study of the general principles, operation, and application of pneumatic, hydraulic, electrical, fuel, environmental, protection, and warning systems. Emphasis on subsystems and control systems. null null

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

AIRP2337 - Commercial Ground School

Course Title

Commercial Ground School

Academic Level

Undergraduate

Description

A study of advanced aviation topics used for Federal Aviation Administration certification at the commercial pilot level. Includes preparation for the Federal Aviation Administration Commercial Airplane Practical test.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2339 - Commercial Flight **Course Title**

Commercial Flight

Academic Level

Undergraduate

Description

Flight instruction necessary to qualify for the Federal Aviation Administration Commercial Pilot Certificate. Instruction includes both dual and solo flight training to prepare the student to perform commercial pilot maneuvers.

Additional Course Information

50 flight hours (primary Trainer), 28 flight hours (complex trainer or TAA), 78 hours of flight instruction (Maximum Pre-flight, Post-flight 46.8), and 16 hours of Ground instruction.

Lecture Hours

1

Lab Hours

6

Total Contact Hours

112

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - AIRP2250 - Instrument Flight (2)

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AIRP2349 - Instructor Ground School

Course Title

Instructor Ground School

Academic Level

Undergraduate

Description

Skill development in the fundamentals of teaching and learning in an aviation- oriented environment. Introduction to the techniques of instruction and analysis of flight maneuvers. Topics include flight instructor responsibilities and Federal Aviation Regulations relating to the instructor rating.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

AIRP2355 - Propulsion Systems

Course Title

Propulsion Systems

Academic Level

Undergraduate

Description

In-depth coverage of aircraft engine theory and principles of operation of various types of aircraft engines. Topics include propellers, superchargers, engine accessories, controls, and instrumentation.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

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AIRP2357 - Turbine Aircraft Systems Ground School **Course Title**

Turbine Aircraft Systems Ground School

Academic Level

Undergraduate

Description

Instruction in the systems of specific turbine aircraft. Emphasis on the "glass cockpit", auxiliary power, aircraft systems, and the first officer's operational role.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

AIRP2370 - Helicopter Systems **Course Title**

Helicopter Systems

Academic Level

Undergraduate

Description

Study of helicopter general principles, operation, and application of pneumatic, hydraulic, electrical, fuel, environmental, protection, and warning systems found in helicopters. Emphasis on subsystems, control, and rotor systems.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2371 - Helicopter Instructor Ground School **Course Title**

Helicopter Instructor Ground School

Academic Level

Undergraduate

Description

Skill development in the fundamentals of teaching and learning in a helicopter oriented environment. Introduction to the techniques of instruction and analysis of helicopter flight maneuvers. Topics include helicopter flight instructor responsibilities and Federal Aviation Regulations relating to the instructor rating.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2374 - Helicopter Instrument Ground School

Course Title

Helicopter Instrument Ground School

Academic Level

Undergraduate

Description

A study of basic instrument radio and navigation fundamentals used in instrument helicopter flight. Topics include a description and practical use of navigation systems and instruments, charts used for instrument flight, and Federal Aviation Administration regulations. Qualifies as part of a program leading to Federal Aviation Administration certification.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2375 - Agricultural Aircraft Operations Ground School

Course Title

Agricultural Aircraft Operations Ground School

Academic Level

Undergraduate

Description

A study of aerial application techniques as it applies to aiding the agricultural industry. Topics include aerial application maneuvers, agricultural aviation GPS systems, regulations applicable to aerial application, and aerial application dispersal equipment. Includes preparation for the Texas Department of Agriculture Commercial Pesticide Applicator License exams.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2376 - Helicopter Propulsion Systems

Course Title

Helicopter Propulsion Systems

Academic Level

Undergraduate

Description

In-depth coverage of aircraft engine theory and principles of operation of various types of helicopter engines. Topics include engine components, rotors, engine accessories, engine controls, and helicopter engine instrumentation to include glass cockpit instrumentation.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AIRP2449 - Instructor Ground School

Course Title

Instructor Ground School

Academic Level

Undergraduate

Description

Skill development in the fundamentals of teaching and learning in an aviation- oriented environment. Introduction to the techniques of instruction and analysis of flight maneuvers. Preparation for the Federal Aviation Administration Airman Certification Standards for Certified Flight Instructor.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

Avionics

2026-2027 Catalog & Student Handbook

AVNC1303 - Introduction to Aviation Electronic Systems

Course Title

Introduction to Aviation Electronic Systems

Academic Level

Undergraduate

Description

An introduction to the relationship between aviation electronic systems and aircraft flight and navigational systems with emphasis on the operation and function of the systems.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

AVNC1306 - FAA Regulations for Avionics Certified Repair Station

Course Title

FAA Regulations for Avionics Certified Repair Station

Academic Level

Undergraduate

Description

This course provides practical experience in the day-to-day operations of a Federal Aviation Administration Certified Repair Station. Students will perform tasks which will include completion of repair station and FAA forms and records, maintenance of technical data and servicing equipment.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AVNC1343 - Aviation Electrical and Electronic Systems Installation **Course Title**

Aviation Electrical and Electronic Systems Installation

Academic Level

Undergraduate

Description

A comprehensive study of and practical experience in the installation of avionic systems in aircraft, mounting electronic equipment, construction and installation of electrical wiring and cables, proper use of tools, selection of materials, and safety.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AVNC1353 - Operational Testing of Aviation Electronic Systems

Course Title

Operational Testing of Aviation Electronic Systems

Academic Level

Undergraduate

Description

Operation of ramp test equipment in common usage to test avionic systems. Emphasis on performance of functional checks of aviation electronic systems and any safety concerns.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AVNC1391 - Installation & Operational Testing of Avionics & Pitot-Static Systems

Course Title

Installation & Operational Testing of Avionics & Pitot-Static Systems

Academic Level

Undergraduate

Description

A practical experience in the planning and execution, and testing of avionics and pitot-static installations. Advanced test equipment will be used where required.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AVNC2304 - Foundations in Avionics Equipment Component Level Repairs **Course Title**

Foundations in Avionics Equipment Component Level Repairs

Academic Level

Undergraduate

Description

In-depth study of common circuit designs found in modern avionics equipment as well as a study of the electronics theory needed to troubleshoot these circuits.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

AVNC2308 - Aviation Electrical and Electronics Systems Installation II

Course Title

Aviation Electrical and Electronics Systems Installation II

Academic Level

Undergraduate

Description

A continuation of AVNC 1343. This course is designed as a study of practical experience in the installation of avionics systems in aircraft, mounting electronic equipment, construction and installation of electrical wiring and cables, proper use of tools, and selection of materials.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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AVNC2345 - Aviation Navigational Equipment Component Level Repair

Course Title

Aviation Navigational Equipment Component Level Repair

Academic Level

Undergraduate

Description

Skills development in component level repair of modern aviation navigational systems including Very High Frequency Omni Range (VOR) and Instrument Landing Systems (ILS). Emphasis on equipment block diagram and specialized test equipment will be covered in detail.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AVNC2350 - Aviation Pulsed RF Equipment Component Level Repair

Course Title

Aviation Pulsed RF Equipment Component Level Repair

Academic Level

Undergraduate

Description

Skills development in component level repair of modern aviation pulsed Radio Frequency (RF) systems. Emphasis on equipment block diagram and specialized test equipment will be covered.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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AVNC2355 - Advanced Aviation Electronics Troubleshooting **Course Title**

Advanced Aviation Electronics Troubleshooting

Academic Level

Undergraduate

Description

A capstone course designed for students to demonstrate acquired knowledge of avionics systems as well as display techniques required to troubleshoot those systems. The student will face component level repair scenarios.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

AVNC2357 - Aviation Communication Component Level Repair **Course Title**

Aviation Communication Component Level Repair

Academic Level

Undergraduate

Description

Skills development in component level repair of modern aviation communications and audio equipment. Emphasis on equipment block diagram and specialized test equipment will be covered.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Baker/Pastry Chef

PSTR1301 - Fundamentals of Baking

Course Title

Fundamentals of Baking

Academic Level

Undergraduate

Description

Fundamentals of baking including dough, quick breads, pies, cakes, cookies, and tarts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - CHEF1205 - Sanitation and Safety (2)
 - CHEF1305 - Sanitation and Safety (3)
 - Complete the following:
 - IFWA1401 - Food Preparation I (4)

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PSTR2431 - Advanced Pastry Shop

Course Title

Advanced Pastry Shop

Academic Level

Undergraduate

Description

A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - PSTR1301 - Fundamentals of Baking (3)

Banking / Finance

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BNKG1002 - Principles of Banking

Course Title

Principles of Banking

Academic Level

Continuing Education

Description

Banking

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

BNKG1004 - Tellers

Course Title

Tellers

Academic Level

Continuing Education

Description

Banking

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Biology

2026-2027 Catalog & Student Handbook

BIOL1106 - Biology for Science Majors Laboratory I (lab)

Course Title

Biology for Science Majors Laboratory I (lab)

Academic Level

Undergraduate

Description

This laboratory-based course accompanies Biology 1306, Biology for Science Majors I. Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - BIOL1306 - Biology for Science Majors I (lecture) (3)

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BIOL1107 - Biology for Science Majors II Lab

Course Title

Biology for Science Majors II Lab

Academic Level

Undergraduate

Description

This laboratory-based course accompanies Biology 1307, Biology for Science Majors II. Laboratory activities will reinforce study of the diversity and classification of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - BIOL1307 - Biology for Science Majors II (3)

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BIOL1108 - Biology Non-Science Majors Laboratory I

Course Title

Biology Non-Science Majors Laboratory I

Academic Level

Undergraduate

Description

This laboratory-based course accompanies BIOL 1308, Biology for Non-Science Majors I. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL1308 - Biology for Non-Science Majors I (3)

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BIOL1109 - Biology for Non-Science Majors II Lab

Course Title

Biology for Non-Science Majors II Lab

Academic Level

Undergraduate

Description

This laboratory-based course accompanies BIOL 1309, Biology for Non-Science Majors II. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL1309 - Biology for Non-Science Majors II (3)

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BIOL1111 - General Botany Lab

Course Title

General Botany Lab

Academic Level

Undergraduate

Description

This laboratory-based course accompanies Biology 1311, General Botany. Laboratory activities will reinforce fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. (This course is intended for science majors.)

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL1311 - General Botany (3)

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BIOL1113 - General Zoology (lab)

Course Title

General Zoology (lab)

Academic Level

Undergraduate

Description

This laboratory-based course accompanies Biology 1313, General Zoology. Laboratory activities will reinforce fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. (This course is intended for science majors.)

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL1313 - General Zoology (lecture) (3)

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BIOL1306 - Biology for Science Majors I (lecture)

Course Title

Biology for Science Majors I (lecture)

Academic Level

Undergraduate

Description

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Student has satisfied all of the following: [Student is a member of the TSI Math Met Student Cohort] Or Student has satisfied any of the following: [Student has completed all of the following course(s): MATH 1314 - College Algebra, NCBM 0314 - Math Basics for College Algebra] [Student has completed all of the following course(s): MATH 1316 - Plane Trigonometry, NCBM 0316 - Math Basics for Trigonometry] [Student has completed all of the following course(s): MATH 1332 - Contemporary Mathematics, NCBM 0332 - Math Basics for Contemporary Math]

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BIOL1307 - Biology for Science Majors II

Course Title

Biology for Science Majors II

Academic Level

Undergraduate

Description

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Student has satisfied all of the following: [Student is a member of the TSI Math Met Student Cohort] Or Student has satisfied any of the following: [Student has completed all of the following course(s): MATH 1314 - College Algebra, NCBM 0314 - Math Basics for College Algebra] [Student has completed all of the following course(s): MATH 1316 - Plane Trigonometry, NCBM 0316 - Math Basics for Trigonometry] [Student has completed all of the following course(s): MATH 1332 - Contemporary Mathematics, NCBM 0332 - Math Basics for Contemporary Math]

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BIOL1308 - Biology for Non-Science Majors I

Course Title

Biology for Non-Science Majors I

Academic Level

Undergraduate

Description

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

BIOL1309 - Biology for Non-Science Majors II

Course Title

Biology for Non-Science Majors II

Academic Level

Undergraduate

Description

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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BIOL1311 - General Botany

Course Title

General Botany

Academic Level

Undergraduate

Description

Fundamental biological concepts relevant to plant physiology, life cycle, growth and development, structure and function, and cellular and molecular metabolism. The role of plants in the environment, evolution, and phylogeny of major plant groups, algae, and fungi. (This course is intended for science majors.)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BIOL1313 - General Zoology (lecture)

Course Title

General Zoology (lecture)

Academic Level

Undergraduate

Description

Fundamental biological concepts relevant to animals, including systematics, evolution, structure and function, cellular and molecular metabolism, reproduction, development, diversity, phylogeny, and ecology. (This course is intended for science majors.)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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BIOL1322 - Nutrition & Diet Therapy

Course Title

Nutrition & Diet Therapy

Academic Level

Undergraduate

Description

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BIOL1406 - Biology for Science Majors I

Course Title

Biology for Science Majors I

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 1306 Biology for Science Majors I (lecture) and BIOL 1106 Biology for Science Majors I (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

BIOL1407 - Biology for Science Majors II

Course Title

Biology for Science Majors II

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 1307 Biology for Science Majors II (lecture) and BIOL 1107 Biology for Science Majors II (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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BIOL1408 - Biology for Non-Science Majors I

Course Title

Biology for Non-Science Majors I

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 1308 Biology for Non-Science Majors I (lecture) and BIOL 1108 Biology for Non- Science Majors I (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

BIOL1409 - Biology for Non-Science Majors II

Course Title

Biology for Non-Science Majors II

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 1309 Biology for Non-Science Majors II (lecture) and BIOL 1109 Biology for Non-Science Majors II (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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BIOL1411 - General Botany **Course Title**

General Botany

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 1311 (lecture) and BIOL 1111 (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

BIOL2101 - Anatomy & Physiology I (lab)

Course Title

Anatomy & Physiology I (lab)

Academic Level

Undergraduate

Description

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL2301 - Anatomy & Physiology I (lecture) (3)

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BIOL2102 - Anatomy & Physiology II (lab)

Course Title

Anatomy & Physiology II (lab)

Academic Level

Undergraduate

Description

The lab provides a hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics).

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL2302 - Anatomy & Physiology II (lecture) (3)

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BIOL2106 - Environmental Biology (lab)

Course Title

Environmental Biology (lab)

Academic Level

Undergraduate

Description

This laboratory-based course accompanies Biology 2306, Environmental Biology. Laboratory activities will reinforce principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL2306 - Environmental Biology (lecture) (3)

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BIOL2116 - Genetics (lab)

Course Title

Genetics (lab)

Academic Level

Undergraduate

Description

Study of the principles of molecular and classical genetics and the function and transmission of hereditary material. May include population genetics and genetic engineering.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab)

Course Title

Microbiology for Non-Science Majors Laboratory (lab)

Academic Level

Undergraduate

Description

This course covers basics of culture and identification of bacteria and microbial ecology. This course is primarily directed at pre-nursing and other pre-allied health majors and covers basics of microbiology. Emphasis is on medical microbiology, infectious diseases, and public health.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL2320 - Microbiology for Non-Science Majors (lecture) (3)

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BIOL2121 - Microbiology for Science Majors Laboratory

Course Title

Microbiology for Science Majors Laboratory

Academic Level

Undergraduate

Description

This laboratory-based course accompanies Biology 2321, Microbiology for Science Majors. Laboratory activities will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - BIOL2321 - Microbiology for Science Majors (3)

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BIOL2301 - Anatomy & Physiology I (lecture)

Course Title

Anatomy & Physiology I (lecture)

Academic Level

Undergraduate

Description

Anatomy and Physiology I is the first part of a two course sequence. It is a study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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BIOL2302 - Anatomy & Physiology II (lecture)

Course Title

Anatomy & Physiology II (lecture)

Academic Level

Undergraduate

Description

Anatomy and Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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BIOL2306 - Environmental Biology (lecture)

Course Title

Environmental Biology (lecture)

Academic Level

Undergraduate

Description

Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

BIOL2316 - Genetics (lecture)

Course Title

Genetics (lecture)

Academic Level

Undergraduate

Description

Study of the principles of molecular and classical genetics and the function and transmission of hereditary material. May include population genetics and genetic engineering.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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BIOL2320 - Microbiology for Non-Science Majors (lecture)

Course Title

Microbiology for Non-Science Majors (lecture)

Academic Level

Undergraduate

Description

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It provides an introduction to historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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BIOL2321 - Microbiology for Science Majors

Course Title

Microbiology for Science Majors

Academic Level

Undergraduate

Description

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete 1 of the following
 - Complete the following:
 - CHEM1311 - General Chemistry I (lecture) (3)
 - CHEM1111 - General Chemistry I (lab) (1)
 - BIOL1306 - Biology for Science Majors I (lecture) (3)
 - BIOL1106 - Biology for Science Majors Laboratory I (lab) (1)
 - BIOL1307 - Biology for Science Majors II (3)
 - BIOL1107 - Biology for Science Majors II Lab (1)
 - Complete the following:
 - CHEM1311 - General Chemistry I (lecture) (3)
 - CHEM1111 - General Chemistry I (lab) (1)
 - BIOL1311 - General Botany (3)
 - BIOL1111 - General Botany Lab (1)
 - BIOL1313 - General Zoology (lecture) (3)
 - BIOL1113 - General Zoology (lab) (1)

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BIOL2401 - Anatomy & Physiology I (lecture + lab)

Course Title

Anatomy & Physiology I (lecture + lab)

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 2301 Anatomy and Physiology I (lecture) and BIOL 2101 Anatomy and Physiology I (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

BIOL2402 - Anatomy & Physiology II (lecture + lab)

Course Title

Anatomy & Physiology II (lecture + lab)

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 2302 Anatomy and Physiology II (lecture) and BIOL 2102 Anatomy and Physiology II (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) **Course Title**

Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab)

Academic Level

Undergraduate

Description

Study of the structure and function of human anatomy, including the neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive, respiratory, and circulatory systems. Content may be either integrated or specialized.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

BIOL2406 - Environmental Biology **Course Title**

Environmental Biology

Academic Level

Undergraduate

Description

Human interaction with and effect upon plant and animal communities. Conservation, pollution, energy, and other contemporary ecological problems.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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BIOL2416 - Genetics

Course Title

Genetics

Academic Level

Undergraduate

Description

Study of the principles of molecular and classical genetics and the function and transmission of hereditary material. May include population genetics and genetic engineering.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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BIOL2420 - Microbiology for Non-Science Majors (lecture + lab)

Course Title

Microbiology for Non-Science Majors (lecture + lab)

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 2320 Microbiology for Non-Science Majors (lecture) and BIOL 2120 Microbiology for Non-Science Majors Laboratory (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

BIOL2421 - Microbiology for Science Majors

Course Title

Microbiology for Science Majors

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of BIOL 2321 (lecture) and BIOL 2121 (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Biomedical Engineering Tech

BIOM1101 - Biomedical Equipment Technology

Course Title

Biomedical Equipment Technology

Academic Level

Undergraduate

Description

Introduction to current biomedical job responsibilities, salaries, and classifications in the health care industry.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

BIOM1201 - Biomedical Equipment Technology

Course Title

Biomedical Equipment Technology

Academic Level

Undergraduate

Description

Introduction to current biomedical job responsibilities, salaries, and classifications in the health care industry.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

BIOM1250 - Diagnostic Ultrasound Imaging System

Course Title

Diagnostic Ultrasound Imaging System

Academic Level

Undergraduate

Description

Diagnostic ultrasound imaging systems. Covers basic systems troubleshooting and problem solving.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

BIOM1270 - Shop Skills for Biomedical Equipment Technicians

Course Title

Shop Skills for Biomedical Equipment Technicians

Academic Level

Undergraduate

Description

Skill development in the common repair tools and repair techniques used by the Biomedical Equipment Technician in the healthcare.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

BIOM1291 - Special Topics in Biomedical Engineering-Related Technology/Technician Course Title

Special Topics in Biomedical Engineering-Related Technology/Technician

Academic Level

Undergraduate

Description

A study of theory, principles and application of the effective administration of technology in the Health care environment with emphasis on the practical understanding of current technology trends and their implications on health care. Topics include codes/standards, computer networks, technology administration/integration and the effective servicing of technology.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

BIOM1309 - Applied Biomedical Equipment Technology

Course Title

Applied Biomedical Equipment Technology

Academic Level

Undergraduate

Description

Introduction to biomedical instrumentation as related to anatomy and physiology. Includes medical devices for monitoring, diagnosis, and treatment of anatomical systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BIOM1315 - Medical Equipment Networks

Course Title

Medical Equipment Networks

Academic Level

Undergraduate

Description

Identification of basic principles of medical equipment networking. Hardware, software, and connectivity issues of medical equipment in healthcare facilities will be covered.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - BIOM1373 - Medical Software and Hardware (3)

2026-2027 Catalog & Student Handbook

BIOM1341 - Medical Circuits/Troubleshooting

Course Title

Medical Circuits/Troubleshooting

Academic Level

Undergraduate

Description

Development of skills in troubleshooting of medical electronic circuits and utilization of test equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

BIOM1350 - Diagnostic Ultrasound Imaging System

Course Title

Diagnostic Ultrasound Imaging System

Academic Level

Undergraduate

Description

Diagnostic ultrasound imaging systems. Covers basic systems troubleshooting and problem solving.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

BIOM1355 - Medical Electronic Applications

Course Title

Medical Electronic Applications

Academic Level

Undergraduate

Description

Presentation of sensors, transducers, and supporting circuits used in medical instrumentation devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - BIOM2301 - Safety in Health Care Facilities (3)

2026-2027 Catalog & Student Handbook

BIOM1373 - Medical Software and Hardware

Course Title

Medical Software and Hardware

Academic Level

Undergraduate

Description

Overview of common medical equipment software, hardware, and operating system maintenance.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BIOM2215 - Physiological Instruments I

Course Title

Physiological Instruments I

Academic Level

Undergraduate

Description

Theory of operation, circuit analysis, and troubleshooting physiological instruments.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - BIOM2301 - Safety in Health Care Facilities (3)

2026-2027 Catalog & Student Handbook

BIOM2231 - Biomedical Clinical Instrumentation

Course Title

Biomedical Clinical Instrumentation

Academic Level

Undergraduate

Description

A study of theory, application, and principles of operation of instruments commonly used in a medical laboratory.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

BIOM2239 - Physiological Instruments II

Course Title

Physiological Instruments II

Academic Level

Undergraduate

Description

Graphic display recording devices. Includes defibrillators and multi-purpose diagnostic equipment.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - BIOM2301 - Safety in Health Care Facilities (3)

Corequisites

- Completed or concurrently enrolled in:
 - BIOM2215 - Physiological Instruments I (2)

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BIOM2301 - Safety in Health Care Facilities

Course Title

Safety in Health Care Facilities

Academic Level

Undergraduate

Description

Study of codes, standards and management principles related to biomedical instrumentation. Emphasizes application of safety test equipment, preventive maintenance procedures, and documentation of work performed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

BIOM2311 - General Medical Equipment I

Course Title

General Medical Equipment I

Academic Level

Undergraduate

Description

Analysis of selected current paths from a larger schematic. Discussion of equipment and disassembly and reassembly of equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

BIOM2319 - Fundamentals of X-Ray and Medical Imaging Systems

Course Title

Fundamentals of X-Ray and Medical Imaging Systems

Academic Level

Undergraduate

Description

Radiation theory and safety hazards, fundamental circuits, and application of X-ray systems including circuit analysis and troubleshooting.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

BIOM2333 - Digital Radiography

Course Title

Digital Radiography

Academic Level

Undergraduate

Description

General principles of digital radiography systems. Fundamentals of problem solving, troubleshooting, and analysis of image quality are emphasized.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - BIOM2319 - Fundamentals of X-Ray and Medical Imaging Systems (3)

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BIOM2343 - General Medical Equipment II

Course Title

General Medical Equipment II

Academic Level

Undergraduate

Description

Theory and principles of operation of a variety of basic electro-mechanical equipment with emphasis on repair and service of actual medical equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - BIOM2301 - Safety in Health Care Facilities (3)

2026-2027 Catalog & Student Handbook

BIOM2345 - Advanced Imaging Systems

Course Title

Advanced Imaging Systems

Academic Level

Undergraduate

Description

Principles of operation and repair of computerized tomography (CT), magnetic resonance imaging (MRI), single photon emission computerized tomography, and other advanced imaging modalities.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - BIOM2319 - Fundamentals of X-Ray and Medical Imaging Systems (3)

2026-2027 Catalog & Student Handbook

BIOM2347 - RF/X-Ray System

Course Title

RF/X-Ray System

Academic Level

Undergraduate

Description

Principles of radiographic and fluoroscopic systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - BIOM2319 - Fundamentals of X-Ray and Medical Imaging Systems (3)

2026-2027 Catalog & Student Handbook

BIOM2377 - Medical Imaging Communication & Storage

Course Title

Medical Imaging Communication & Storage

Academic Level

Undergraduate

Description

A course in medical imaging communication and storage systems, including Digital Imaging Communication (DICOM) standards and Picture Archiving and Communication Systems (PACS). Image transfer via DICOM standard to PACS and printers, including modality (X-ray, Computerized Tomography, and Ultrasound) and PACS function, configuration, and troubleshooting, is covered.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BIOM2388 - Internship - Biomedical Technology/Technician

Course Title

Internship - Biomedical Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 256 hours total in the semester. It is recommended that a student completes 16 hours a week for the 15 week semester. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

256

Total Contact Hours

256

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BIOM2389 - Internship-Biomedical Engineering Technician

Course Title

Internship-Biomedical Engineering Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 256 hours total in the semester. It is recommended that a student completes 16 hours a week for the 15 week semester. The position and company must be pre-approved before a student signs up for the coop class. Employer reviews and hour logs are required.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

16

Total Contact Hours

256

Credits

3

Semester Credit Hours

3

Bus Sys Netwrk, Unix

2026-2027 Catalog & Student Handbook

ITCC1314 - CCNA 1: Introduction to Networks

Course Title

CCNA 1: Introduction to Networks

Academic Level

Undergraduate

Description

This course covers networking architecture, structure, and functions; introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to provide a foundation for the curriculum.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITCC1340 - CCNA 2: Routing and Switching Essentials

Course Title

CCNA 2: Routing and Switching Essentials

Academic Level

Undergraduate

Description

Describes the architecture, components, and basic operation of routers and explains the basic principles of routing and routing protocols. It also provides an in-depth understanding of how switches operate and are implemented in the LAN environment for small and large networks.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITCC1344 - CCNA 2: Switching, Routing, and Wireless Essentials **Course Title**

CCNA 2: Switching, Routing, and Wireless Essentials

Academic Level

Undergraduate

Description

Describes the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts; provides an in-depth understanding of how routers and switches operate and are implemented in the LAN environment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITCC1314 - CCNA 1: Introduction to Networks (3)

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ITCC1391 - Special Topics in System, Networking, and LAN/WAN Management "Wireless Infrastructure/IoT" **Course Title**

Special Topics in System, Networking, and LAN/WAN Management "Wireless Infrastructure/IoT"

Academic Level

Undergraduate

Description

Mac OS X covers, but is not limited to, installation, automation, customizing the operating system, supporting applications, and setting up peripherals. This is an Apple Training Series which serves as both a self-paced learning tool and the official curriculum for the Mac OS X Support Essentials certification program.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITCC2312 - CCNA 3: Scaling Networks **Course Title**

CCNA 3: Scaling Networks

Academic Level

Undergraduate

Description

CCNA R&S: Scaling Networks (ScaN) covers the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches using advanced protocols.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITCC2313 - CCNA 4: Connecting Networks

Course Title

CCNA 4: Connecting Networks

Academic Level

Undergraduate

Description

WAN technologies and network services required by converged applications in a complex network; enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITCC2320 - CCNA 3: Enterprise Networking, Security , and Automation **Course Title**

CCNA 3: Enterprise Networking, Security , and Automation

Academic Level

Undergraduate

Description

Describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasizes network security concepts and introduces network virtualization and automation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITCC1344 - CCNA 2: Switching, Routing, and Wireless Essentials (3)

2026-2027 Catalog & Student Handbook

ITCC2341 - CCNA Security

Course Title

CCNA Security

Academic Level

Undergraduate

Description

Overall security processes with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products, and solutions; and secure router design, installation, configuration, and maintenance; AAA and VPN implementation using routers and firewalls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITCC2343 - Network Security

Course Title

Network Security

Academic Level

Undergraduate

Description

Overall security processes with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies; products and solutions; firewall and secure router design, installation, configuration, and maintenance; AAA and VPN implementation using routers and firewalls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Business

2026-2027 Catalog & Student Handbook

BMGT1022 - Communication Skills for Managers

Course Title

Communication Skills for Managers

Academic Level

Continuing Education

Description

Basic theory of communication skills as appropriate and applicable to individuals or groups in the business environment. Includes listening, speaking, writing, and communicating non-verbally.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

BMGT1025 - Office Management

Course Title

Office Management

Academic Level

Continuing Education

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

43

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

BMGT1028 - Core Negotiating Skills

Course Title

Core Negotiating Skills

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

BMGT1036 - Purchasing Management-Introduction

Course Title

Purchasing Management-Introduction

Academic Level

Continuing Education

Description

Materials management concepts, planning, pricing and negotiations, product commodity purchase analysis, measurement, appraisal, and legal and ethical considerations.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

BMGT1053 - Ethics Training

Course Title

Ethics Training

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

BMGT1097 - Sp Topic Sales, Distribution, Marketing

Course Title

Sp Topic Sales, Distribution, Marketing

Academic Level

Continuing Education

Description

Marketing

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

BMGT1098 - Special Topics in Selling Skills and Sal

Course Title

Special Topics in Selling Skills and Sal

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

BMGT1305 - Communications in Management

Course Title

Communications in Management

Academic Level

Undergraduate

Description

Basic theory and processes of communication skills necessary for the management of an organization's workforce.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BMGT1306 - Facilities Management

Course Title

Facilities Management

Academic Level

Undergraduate

Description

General management and supervision of public buildings, business and industrial facilities, and other complexes requiring supervision and control. Includes fire alarm maintenance, plant maintenance, occupational safety, OSHA rules and regulations, management of maintenance supervisors, and hazardous materials awareness.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BMGT1309 - Information and Project Management

Course Title

Information and Project Management

Academic Level

Undergraduate

Description

Critical path methods for planning and controlling projects. Includes time/cost tradeoffs, resource utilization, stochastic considerations, task determination, time management, scheduling management, status reports, budget management, customer service, professional attitude, and project supervision.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

BMGT1325 - Office Management

Course Title

Office Management

Academic Level

Undergraduate

Description

Systems, procedures, and practices related to organizing and planning office work, supervising employee performance, and exercising leadership skills.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BMGT1327 - Principles of Management **Course Title**

Principles of Management

Academic Level

Undergraduate

Description

Concepts, terminology, principles, theories, and issues in the field of management.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

BMGT1331 - Production and Operations Management **Course Title**

Production and Operations Management

Academic Level

Undergraduate

Description

Fundamentals of techniques used in the practice of production and operations management. Includes location, design, and resource allocation.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BMGT2331 - Principles of Quality Managment **Course Title**

Principles of Quality Managment

Academic Level

Undergraduate

Description

Includes planning and implementing quality programs in an organization and analyzing cost/benefit of quality. Also covers the impact of employee empowerment.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

BMGT2341 - Strategic Management **Course Title**

Strategic Management

Academic Level

Undergraduate

Description

Strategic management process, including analysis of how organizations develop and implement a strategy for achieving organizational objectives in a changing environment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

BMGT2347 - Critical Thinking and Problem Solving **Course Title**

Critical Thinking and Problem Solving

Academic Level

Undergraduate

Description

Interpreting data for problem solving and recommending corrective action. Emphasis on a structured approach to critical thinking and problem solving in a team environment.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

POFT1002 - Mastering Public Speaking **Course Title**

Mastering Public Speaking

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

2

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFT1006 - Employment Success

Course Title

Employment Success

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

POFT1013 - Professional Development for Office Pers

Course Title

Professional Development for Office Pers

Academic Level

Continuing Education

Description

Preparation for the work force including ethics, interpersonal relations, professional attire, and career advancement.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFT1020 - Communication Skills for Busin **Course Title**

Communication Skills for Busin

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

POFT1022 - Introduction to General Office Skills **Course Title**

Introduction to General Office Skills

Academic Level

Continuing Education

Description

List basic office skills; and define business communication skills

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFT1120 - Job Search Skills

Course Title

Job Search Skills

Academic Level

Undergraduate

Description

Skills to seek and obtain employment in business and industry.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Credits

1

Semester Credit Hours

1

POFT1301 - Business English

Course Title

Business English

Academic Level

Undergraduate

Description

Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

POFT1319 - Records & Information Management I

Course Title

Records & Information Management I

Academic Level

Undergraduate

Description

Introduction to basic records information management systems including manual and electronic filing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

POFT2012 - Business Correspondence & Communication

Course Title

Business Correspondence & Communication

Academic Level

Continuing Education

Description

Development of writing and presentation skills to produce effective business communications.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

POFT2312 - Business Correspondence & Communication

Course Title

Business Correspondence & Communication

Academic Level

Undergraduate

Description

Development of writing and presentation skills to produce effective business communications.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

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POFT2380 - Cooperative Education - Administrative Assistant and Secretarial Science, General **Course Title**

Cooperative Education - Administrative Assistant and Secretarial Science, General

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

16 per week/240 Total

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

Business Management

BUSG1005 - Intro to Customer Service **Course Title**

Intro to Customer Service

Academic Level

Continuing Education

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

12

Semester Credit Hours

0

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BUSG1012 - Professionalism in the Workplace

Course Title

Professionalism in the Workplace

Academic Level

Continuing Education

Description

Develop entry-level skills for the workforce. Includes professionalism, interpersonal skills, communication, workplace civility, and employability skills.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

20

Semester Credit Hours

0

BUSG1029 - Financial Planning Skills

Course Title

Financial Planning Skills

Academic Level

Continuing Education

Description

Integration of non-insurance financial products/services with life insurance as part of the financial planning process. Includes financial plans, financial statements, IRS Form 1040, stocks, bonds, and limited partnerships.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

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BUSG1301 - Introduction to Business

Course Title

Introduction to Business

Academic Level

Undergraduate

Description

Fundamental business principles including structure, functions, resources, and operational processes.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

BUSG1302 - E-Business Management

Course Title

E-Business Management

Academic Level

Undergraduate

Description

Introduction to business. Includes the internet, infrastructure for electronic commerce, markup languages, web-based tools and software, security issues, and electronic payment systems. Also covers strategies for marketing, sales, and purchasing; legal, ethical, and tax issues; and management functions.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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BUSG1304 - Financial Literacy

Course Title

Financial Literacy

Academic Level

Undergraduate

Description

A study of the financial principles when managing financial affairs. Includes topics such as budgeting, retirement, property ownership, savings, and investment planning. null End of Course Outcomes Identify the concepts associated with the time value of money; identify the differences among various savings and investment programs and classes of securities; identify the options for insurance; describe retirement and estate planning techniques; explain owning versus renting real property; and describe consumer protection legislation.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

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BUSG1315 - Small Business Operations

Course Title

Small Business Operations

Academic Level

Undergraduate

Description

Operating a small business. Emphasizes management functions including planning, leading, organizing, staffing, and controlling operations.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

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BUSG2301 - Business Law

Course Title

Business Law

Academic Level

Undergraduate

Description

The course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Cartography, GIS & GPS

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CRTG1301 - Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning Systems

Course Title

Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning Systems

Academic Level

Undergraduate

Description

Introduction to the principles of cartography and geography. Emphasis on global reference systems and the use of satellites for measurements and navigation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CRTG1311 - Introduction to Geographic Information Systems (GIS)

Course Title

Introduction to Geographic Information Systems (GIS)

Academic Level

Undergraduate

Description

Introduction to basic concepts of vector GIS using several industry specific software programs including nomenclature of cartography and geography.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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CRTG2320 - Intermediate Geographic Information Systems (GIS)

Course Title

Intermediate Geographic Information Systems (GIS)

Academic Level

Undergraduate

Description

This course focuses on the study of spatial data structures and the display, manipulation, and analysis of geographic information. Students will study the technical aspects involved in spatial data handling, analysis and modeling. Instruction will include theories and procedures associated with the implementation and management of GIS projects. A variety of GIS software packages will be used in the laboratory.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Chemistry

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CHEM1105 - Introductory Chemistry Laboratory I (lab)

Course Title

Introductory Chemistry Laboratory I (lab)

Academic Level

Undergraduate

Description

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

CHEM1107 - Introductory Chemistry Laboratory II

Course Title

Introductory Chemistry Laboratory II

Academic Level

Undergraduate

Description

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for allied health students and for students who are not science majors.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

CHEM1111 - General Chemistry I (lab)

Course Title

General Chemistry I (lab)

Academic Level

Undergraduate

Description

Basic laboratory experiments supporting theoretical principles presented in CHEM 1311; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - CHEM1311 - General Chemistry I (lecture) (3)

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CHEM1112 - General Chemistry II (lab)

Course Title

General Chemistry II (lab)

Academic Level

Undergraduate

Description

Basic laboratory experiments supporting theoretical principles presented in CHEM 1312; introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - CHEM1312 - General Chemistry II (lecture) (3)

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CHEM1305 - Introductory Chemistry I (lecture)

Course Title

Introductory Chemistry I (lecture)

Academic Level

Undergraduate

Description

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

CHEM1307 - Introductory Chemistry II

Course Title

Introductory Chemistry II

Academic Level

Undergraduate

Description

A Continuation of Chem 1305 for Allied Health and Related Science Majors. Topics Include Ionization, Chemical Equilibrium, Oxidation-Reduction, Nuclear Chemistry, and an Introduction Into Organic and Biochemistry.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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CHEM1311 - General Chemistry I (lecture)

Course Title

General Chemistry I (lecture)

Academic Level

Undergraduate

Description

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MATH1314 - College Algebra (3 SCH version) (3)

Corequisites

- Completed or concurrently enrolled in:
 - CHEM1111 - General Chemistry I (lab) (1)

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CHEM1312 - General Chemistry II (lecture)

Course Title

General Chemistry II (lecture)

Academic Level

Undergraduate

Description

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CHEM1111 - General Chemistry I (lab) (1)
 - CHEM1311 - General Chemistry I (lecture) (3)

Corequisites

- Completed or concurrently enrolled in:
 - CHEM1112 - General Chemistry II (lab) (1)

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CHEM1405 - Introductory Chemistry I

Course Title

Introductory Chemistry I

Academic Level

Undergraduate

Description

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

CHEM1406 - Introductory Chemistry I

Course Title

Introductory Chemistry I

Academic Level

Undergraduate

Description

Survey Course Introducing Chemistry. Topics May Include Inorganic, Organic, Biochemistry, Food/Physiological Chemistry, and Environmental/Consumer Chemistry. Designed for Non-Science and Allied Health Students

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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CHEM1411 - General Chemistry I

Course Title

General Chemistry I

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of 1314 General Chemistry I Lecture and 1111 General Chemistry I Lab, including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

CHEM1412 - General Chemistry II

Course Title

General Chemistry II

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of 1312 General Chemistry II Lecture and 1112 General Chemistry II Lab, including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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CHEM1414 - General Chemistry II **Course Title**

General Chemistry II

Academic Level

Undergraduate

Description

General principles, problems, fundamental laws, and theories. Course content provides a foundation for work in advanced chemistry and related sciences.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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CHEM2123 - Organic Chemistry I Lab

Course Title

Organic Chemistry I Lab

Academic Level

Undergraduate

Description

This laboratory-based course accompanies CHEM 2323, Organic Chemistry I. Laboratory activities will reinforce fundamental principles of organic chemistry, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. Methods for the purification and identification of organic compounds will be examined.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

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CHEM2125 - Organic Chemistry II Lab

Course Title

Organic Chemistry II Lab

Academic Level

Undergraduate

Description

This laboratory-based course accompanies CHEM 2325, Organic Chemistry II. Laboratory activities reinforce advanced principles of organic chemistry, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

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CHEM2323 - Organic Chemistry I

Course Title

Organic Chemistry I

Academic Level

Undergraduate

Description

Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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CHEM2325 - Organic Chemistry II

Course Title

Organic Chemistry II

Academic Level

Undergraduate

Description

Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules; and properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Chemistry, Technical

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CTEC2386 - Internship - Chemical Technology

Course Title

Internship - Chemical Technology

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

18

Total Contact Hours

288

Credits

3

Semester Credit Hours

3

CTEC2387 - Internship - Chemical Technology

Course Title

Internship - Chemical Technology

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

18

Total Contact Hours

288

Credits

3

Semester Credit Hours

3

Child Care Guida. Wkr/Mgr/Gen

CDEC1012 - Child Guidance and Discipline **Course Title**

Child Guidance and Discipline

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CDEC1318 - Wellness of the Young Child **Course Title**

Wellness of the Young Child

Academic Level

Undergraduate

Description

Factors impacting the well-being of young children. Includes healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content is aligned with State Board of Educator Certification Pedagogy and Professional Responsibilities standards. Requires students to participate in a minimum of 16 hours field experience with children from infancy through age 12 in a variety of settings with varied and diverse populations.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

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CDEC1321 - The Infant and Toddler **Course Title**

The Infant and Toddler

Academic Level

Undergraduate

Description

A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, learning environments, materials and activities, and teaching/guidance techniques.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

CDEC1356 - Emergent Literacy for Early Childhood **Course Title**

Emergent Literacy for Early Childhood

Academic Level

Undergraduate

Description

An exploration of principles, methods, and materials for teaching language and literacy through a play-based integrated curriculum to children from birth through age eight.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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CDEC1359 - Children with Special Needs

Course Title

Children with Special Needs

Academic Level

Undergraduate

Description

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role, and legislative issues.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CDEC2340 - Instructional Techniques for Children with Special Needs

Course Title

Instructional Techniques for Children with Special Needs

Academic Level

Undergraduate

Description

Exploration of development and implementation of curriculum for children with special needs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Commercial Photography

PHTC1004 - Introductory Professional Photography **Course Title**

Introductory Professional Photography

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

PHTC1011 - Fundamentals of Photography **Course Title**

Fundamentals of Photography

Academic Level

Continuing Education

Description

An introduction to camera operation and image production, composition, flash usage, and use of exposure meters and filters.

Lecture Hours

10

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

160

Semester Credit Hours

0

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PHTC1311 - Fundamentals of Photography

Course Title

Fundamentals of Photography

Academic Level

Undergraduate

Description

An introduction to camera operation and image production, composition, flash usage, and use of exposure meters and filters.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1302 - Digital Imaging I (3)

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PHTC1340 - Photographic Retouching I

Course Title

Photographic Retouching I

Academic Level

Undergraduate

Description

An overview of retouching techniques to enhance photographic media. Includes restoration and coloration.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PHTC1343 - Expressive Photography

Course Title

Expressive Photography

Academic Level

Undergraduate

Description

A study of formal, professional, and individual uses of photography by applying photographic technology to personalized needs. Emphasis on creative visual thinking and problem solving and the exploration of personal vision.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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PHTC1345 - Illustrative Photography I

Course Title

Illustrative Photography I

Academic Level

Undergraduate

Description

Instruction in the technical aspects involved in commercial photography. Topics include lighting equipment, techniques of production photography, reproduction principles, illustrative techniques, and advertising.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PHTC1353 - Portraiture I

Course Title

Portraiture I

Academic Level

Undergraduate

Description

Skill development in the photographic principles of portrait lighting, posing, and subject rapport.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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PHTC1371 - Commercial Photography

Course Title

Commercial Photography

Academic Level

Undergraduate

Description

The study and utilization of professional commercial photography techniques, including the use of industry standard software, professional lighting techniques, and the emulation of an industry environment utilizing sample employers and clients.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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PHTC1391 - Special Topics in Commercial Photography

Course Title

Special Topics in Commercial Photography

Academic Level

Undergraduate

Description

The study and utilization of professional commercial photography techniques, including the use of industry standard software, professional lighting techniques, and the emulation of an industry environment utilizing sample employers and clients.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PHTC2340 - Photographic Studio Management

Course Title

Photographic Studio Management

Academic Level

Undergraduate

Description

In-depth study of photography business management, pricing, market analysis, promotion, networking, job acquisition, and photographic equipment analysis.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Commercial Vehicle Operation

CVOP1001 - Commercial Drivers License Dri **Course Title**

Commercial Drivers License Dri

Academic Level

Continuing Education

Description

Overview of the State of Texas Class A Commercial Drivers License driving test. In-depth coverage of in-cab air brake test, proper shifting, right and left-hand turns, movement in traffic, parking of a tractor trailer, highway and city driving, and backward movement and control.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

CVOP1005 - Commercial Drivers License Written Skill **Course Title**

Commercial Drivers License Written Skill

Academic Level

Continuing Education

Description

Overview of the State of Texas Class A Commercial Drivers License written test. In-depth coverage of air brakes, combination vehicle, doubles and triples, tankers, and hazardous materials. Includes preparation for mastery of the Commercial Drivers License written examination.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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CVOP1011 - Driving Skills for Transporting Passengers

Course Title

Driving Skills for Transporting Passengers

Academic Level

Continuing Education

Description

Overview of the State of Texas Class A or Class B Commercial Drivers License driving test. In-depth coverage of the in-cab air brake test, proper shifting, right and left hand turns, movement in traffic, parking of a vehicle designed to transport passengers, highway and city driving, and backward movement and control.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CVOP1013 - Professional Truck Driver I

Course Title

Professional Truck Driver I

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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CVOP1040 - Professional Truck Driver II

Course Title

Professional Truck Driver II

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CVOP1091 - Special Topics in Truck, Bus and Other C

Course Title

Special Topics in Truck, Bus and Other C

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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CVOP1091 - St Truck,bus/Other Comm. Vehicle Operat **Course Title**

St Truck,bus/Other Comm. Vehicle Operat

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

CVOP1301 - Commercial Drivers License Driving Skills **Course Title**

Commercial Drivers License Driving Skills

Academic Level

Undergraduate

Description

Overview of the State of Texas Class A Commercial Driver's License driving test. In-depth coverage of in-cab air brake test, proper shifting, right and left-hand turns, movement in traffic, parking of a tractor trailer, highway and city driving, and backward movement and control.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

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CVOP1305 - Commercial Drivers License Written Skills

Course Title

Commercial Drivers License Written Skills

Academic Level

Undergraduate

Description

Overview of the State of Texas Class A Commercial Driver's License written test. In-depth coverage of general knowledge, air brakes, combination vehicle, doubles and triples, tankers, and hazardous materials. Includes preparation for mastery of the Commercial Drivers License written examination.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

CVOP2005 - Fundamental Driving Skills

Course Title

Fundamental Driving Skills

Academic Level

Continuing Education

Description

Operation of a tractor-trailer combination. Emphasis on the safe maneuvering and control of the tractor-trailer in numerous traffic situations and sharing the highway with other vehicles.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

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CVOP2037 - Advanced Driving Skills II

Course Title

Advanced Driving Skills II

Academic Level

Continuing Education

Description

Continuation of tractor-trailer operation in city and highway conditions. Emphasis on practical applications of space management techniques, improved methods for control in difficult traffic situations, and effective operation in various conditions.

Lecture Hours

5

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

80

Semester Credit Hours

0

Communication System Installer

CSIR1002 - Telecomm. Integrated Systems

Course Title

Telecomm. Integrated Systems

Academic Level

Continuing Education

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CSIR1048 - Applied General Communication Circuits

Course Title

Applied General Communication Circuits

Academic Level

Continuing Education

Description

The basic theory of operation and troubleshooting of communication circuits used in radio communication electronics systems.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

CSIR1052 - Applied Industry Certifications

Course Title

Applied Industry Certifications

Academic Level

Continuing Education

Description

Preparation for the certifications required by industry.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CSIR1055 - Industry Certifications

Course Title

Industry Certifications

Academic Level

Continuing Education

Description

Preparation for the Certifications Required by Industry.

Lecture Hours

1

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

CSIR1059 - Digital Data Communication

Course Title

Digital Data Communication

Academic Level

Continuing Education

Description

Introduction to the theory and troubleshooting skills needed in the digital data communication field.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CSIR1355 - Industry Certifications

Course Title

Industry Certifications

Academic Level

Undergraduate

Description

Preparation for the certifications required by industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - IEIR1371 - Electrical Principles and Applications (3)
 - CETT1302 - Electricity Principles (3)

2026-2027 Catalog & Student Handbook

CSIR2051 - Fiber Optic Communication System Install

Course Title

Fiber Optic Communication System Install

Academic Level

Continuing Education

Description

Focus on installation, and repair of fiber optic communication systems including networks and peripherals. Topics include fiber optic technology, state-of-the-art networking systems, installation/repair of fiber optic systems, and testing equipment.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CSIR2301 - Communication Electronics Components

Course Title

Communication Electronics Components

Academic Level

Undergraduate

Description

Introduction to the theory of vacuum tubes and solid-state devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - IEIR1371 - Electrical Principles and Applications (3)
 - CETT1302 - Electricity Principles (3)

Community Health

2026-2027 Catalog & Student Handbook

CHLT1009 - Community Ethics

Course Title

Community Ethics

Academic Level

Continuing Education

Description

Discussion of the role of ethics as it pertains to health care and community settings including ethical decision-making.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

Computer

CETT1000 - Alternating Current (ac) Circuits

Course Title

Alternating Current (ac) Circuits

Academic Level

Continuing Education

Description

Fundamentals of alternating current.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

20

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CETT1001 - Direct Current (dc) Circuits

Course Title

Direct Current (dc) Circuits

Academic Level

Continuing Education

Description

Fundamentals of direct current (DC).

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

20

Semester Credit Hours

0

CETT1003 - Dc Circuits

Course Title

Dc Circuits

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CETT1029 - Solid State Devices

Course Title

Solid State Devices

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

66

Semester Credit Hours

0

CETT1091 - Special Topics in Computer Engineering T

Course Title

Special Topics in Computer Engineering T

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CETT1302 - Electricity Principles

Course Title

Electricity Principles

Academic Level

Undergraduate

Description

Principles of electricity including proper use of test equipment, A/C and D/C circuits, and component theory and operations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CETT1303 - DC Circuits

Course Title

DC Circuits

Academic Level

Undergraduate

Description

A study of the fundamentals of direct current including Ohm's law, Kirchhoff's laws and circuit analysis techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CETT1305 - AC Circuits

Course Title

AC Circuits

Academic Level

Undergraduate

Description

A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)

2026-2027 Catalog & Student Handbook

CETT1325 - Digital Fundamentals

Course Title

Digital Fundamentals

Academic Level

Undergraduate

Description

An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete 1 of the following
 - Complete the following:
 - CETT1302 - Electricity Principles (3)
 - Completed or concurrently enrolled in:
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

CETT1329 - Solid State Devices

Course Title

Solid State Devices

Academic Level

Undergraduate

Description

A study of diodes, transistor characteristics and other semiconductor devices, including analysis of static and dynamic characteristics, biasing techniques, and thermal considerations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - CETT1305 - AC Circuits (3)
 - Complete at least 1 of the following:
 - IEIR1371 - Electrical Principles and Applications (3)
 - IEIR1304 - Alternating Current Circuits for Industrial Applications (3)

2026-2027 Catalog & Student Handbook

CETT1341 - Solid State Circuits

Course Title

Solid State Circuits

Academic Level

Undergraduate

Description

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Computer & Information Science

ITSC1004 - Software App Skills Upgrade

Course Title

Software App Skills Upgrade

Academic Level

Continuing Education

Description

An introduction to selected application software. null October 31 2019 2:39 PM Garcia, Juan

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSC1007 - Unix Operating System I

Course Title

Unix Operating System I

Academic Level

Continuing Education

Description

A study of the UNIX operating system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Topics include introductory systems management concepts.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

ITSC1008 - Help Desk Support for Operating Systems

Course Title

Help Desk Support for Operating Systems

Academic Level

Continuing Education

Description

Fundamental operating system customer support.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSC1018 - Intro to Project Manag Software

Course Title

Intro to Project Manag Software

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ITSC1022 - Basic Computers

Course Title

Basic Computers

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSC1025 - Personal Computer Hardware

Course Title

Personal Computer Hardware

Academic Level

Continuing Education

Description

A study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ITSC1301 - Introduction to Computers

Course Title

Introduction to Computers

Academic Level

Undergraduate

Description

Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC1309 - Integrated Software Applications I

Course Title

Integrated Software Applications I

Academic Level

Undergraduate

Description

Introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSC1315 - Project Management Software

Course Title

Project Management Software

Academic Level

Undergraduate

Description

Use of project management software for developing a project plan including timelines, milestones, scheduling, life cycle phases, management frameworks, skills, processes, and tools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC1316 - Linux Installation and Configuration **Course Title**

Linux Installation and Configuration

Academic Level

Undergraduate

Description

Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)

2026-2027 Catalog & Student Handbook

ITSC1325 - Personal Computer Hardware

Course Title

Personal Computer Hardware

Academic Level

Undergraduate

Description

Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC1342 - Shell Programming

Course Title

Shell Programming

Academic Level

Undergraduate

Description

Reading, writing, and debugging shell scripts. Development of scripts to automate frequently executed sequences of commands. Covers conditional logic, user interaction, loops, and menus to enhance the productivity and effectiveness of the user. Intended for programmers who are familiar with operating environments and reading and writing various shell scripts.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - ITNW1358 - Network+ (3)
 - ITNW1325 - Fundamentals of Networking Technologies (3)

2026-2027 Catalog & Student Handbook

ITSC2035 - Application Software Problem Solving

Course Title

Application Software Problem Solving

Academic Level

Continuing Education

Description

Utilization of appropriate application software to solve advanced problems and generate customized solutions.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

ITSC2321 - Integrated Software App II

Course Title

Integrated Software App II

Academic Level

Undergraduate

Description

Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC2325 - Advanced Linux **Course Title**

Advanced Linux

Academic Level

Undergraduate

Description

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSC1316 - Linux Installation and Configuration (3)

2026-2027 Catalog & Student Handbook

ITSC2370 - Final Project-Systems Administration **Course Title**

Final Project-Systems Administration

Academic Level

Undergraduate

Description

Students will design and implement a systems administration plan for specified parameters utilizing knowledge and skill sets learned in the course of instruction. The students will be given a set of desired administrative outcomes and will implement current or impending technologies to obtain the desired administrative outcomes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC2380 - Cooperative Education - Computer and Information Sciences, General Course Title

Cooperative Education - Computer and Information Sciences, General

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Are Offered Through a Cooperative Agreement Between the College, Employer, and Student. Under Supervision of The College and the Employer the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience. This Course May Be Repeated If Topics and Learning Outcomes Vary.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC2386 - Internship - Computer and Information Sciences, General **Course Title**

Internship - Computer and Information Sciences, General

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 144 total contact hours in the semester. The student should complete 9 external contact hours per week.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSC2425 - Advanced Linux **Course Title**

Advanced Linux

Academic Level

Undergraduate

Description

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ITSC1316 - Linux Installation and Configuration (3)

Computer/Information Sciences

2026-2027 Catalog & Student Handbook

INEW2330 - Comprehensive Software Project: Planning and Design **Course Title**

Comprehensive Software Project: Planning and Design

Academic Level

Undergraduate

Description

A comprehensive application of skills learned in previous courses in a simulated workplace. Covers the development, testing, and documenting of a complete software and/or hardware solution. This course may be used as a capstone course for a certificate or degree.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
 - ITSE2353 - Advanced C# Programming (3)

2026-2027 Catalog & Student Handbook

INEW2332 - Comprehensive Software Project: Coding, Testing, and Implementation **Course Title**

Comprehensive Software Project: Coding, Testing, and Implementation

Academic Level

Undergraduate

Description

A comprehensive application of skills learned in previous semesters in a simulated workplace. Includes coding, testing, maintenance, and documentation of a complete software and/or hardware solution. This course may be used as a capstone course for a certificate or degree.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INEW2330 - Comprehensive Software Project: Planning and Design (3)

2026-2027 Catalog & Student Handbook

INEW2334 - Advanced Web Programming

Course Title

Advanced Web Programming

Academic Level

Undergraduate

Description

Web programming using industry-standard languages and data stores.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2313 - Web Authoring (3)
 - IMED2309 - Internet Commerce (3)
 - IMED2315 - Web Design II (3)

2026-2027 Catalog & Student Handbook

INEW2338 - Advanced Java Programming

Course Title

Advanced Java Programming

Academic Level

Undergraduate

Description

A continuation of Java programming techniques such as servlets, and advanced graphical functions.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2317 - Java Programming (3)

Construction

CRPT1023 - Floor System

Course Title

Floor System

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CRPT1029 - Introduction to Carpentry **Course Title**

Introduction to Carpentry

Academic Level

Continuing Education

Description

An introduction to the carpentry trade including safety, tools, equipment, terminology, and methods.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CRPT1311 - Roof Systems **Course Title**

Roof Systems

Academic Level

Undergraduate

Description

Principles of design and construction of a roof system incorporating gable, hip, valley and intersections. Emphasis given to safe work practices and the use, and maintenance of tools and equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CRPT1315 - Wall Systems

Course Title

Wall Systems

Academic Level

Undergraduate

Description

Identification of components; construction of wall systems; safe work practices; and the use, and maintenance of tools and equipment. null null null

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CRPT1341 - Exterior Finish Systems

Course Title

Exterior Finish Systems

Academic Level

Undergraduate

Description

Installation of exterior finish systems and components including the placement and installation of cornice, windows, doors, siding, and flashing. Emphasis on safe work practices and the use, and maintenance of tools and equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CRPT1371 - Basic Framing

Course Title

Basic Framing

Academic Level

Undergraduate

Description

Knowledge and skills required to erect wood and light metal frame structures with emphasis on layout, sequencing, strength of materials and construction; of floors, walls (interior and exterior), and roofs. Includes safety procedures for using hand tools, power tools, equipment and structural materials.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Construction/Building Inspect

2026-2027 Catalog & Student Handbook

CBFM1303 - Boiler Maintenance

Course Title

Boiler Maintenance

Academic Level

Undergraduate

Description

Boiler maintenance procedures with emphasis on the various components associated with boilers.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

CBFM2013 - Building Maintenance Managemen

Course Title

Building Maintenance Managemen

Academic Level

Continuing Education

Description

Management and controls required to direct operations of the engineering and maintenance department. Includes planning and scheduling, delegating responsibilities, purchasing, problem-solving, management by objectives, supervisory training, in-service training, and budget preparation.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJCR2002 - Police Suicide, Detection & Intervention

Course Title

Police Suicide, Detection & Intervention

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CJSA1325 - Criminology

Course Title

Criminology

Academic Level

Undergraduate

Description

Current theories and empirical research pertaining to crime and criminal behavior and its causes, methods of prevention, systems of punishment, and rehabilitation.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CJSA1327 - Fundamentals of Criminal Law

Course Title

Fundamentals of Criminal Law

Academic Level

Undergraduate

Description

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

CJSA1393 - Special Topics in Criminal Justice Studies

Course Title

Special Topics in Criminal Justice Studies

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CJSA2000 - Professional Development: Criminal Justi Course Title

Professional Development: Criminal Justi

Academic Level

Continuing Education

Description

Intensive training in an identified area(s) to meet continuing education and/or review/update requirements associated with professional licensure or certification. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

Culinary Arts/Chef Training

2026-2027 Catalog & Student Handbook

CHEF1205 - Sanitation and Safety

Course Title

Sanitation and Safety

Academic Level

Undergraduate

Description

A study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

CHEF1305 - Sanitation and Safety

Course Title

Sanitation and Safety

Academic Level

Undergraduate

Description

A study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

Lecture Hours

2

Lab Hours

2

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CHEF1340 - Meat Preparation and Cooking

Course Title

Meat Preparation and Cooking

Academic Level

Undergraduate

Description

Study of the preparation, storage, and cooking techniques for beef, pork, lamb, poultry, seafood, and game. Includes moist, dry, and combination heat preparation methods as related to both classical and modern methods of preparation of dishes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - IFWA1427 - Food Preparation II (4)

2026-2027 Catalog & Student Handbook

CHEF1413 - Food Service Operations/Systems

Course Title

Food Service Operations/Systems

Academic Level

Undergraduate

Description

An overview of the information needs of food and lodging properties. Emphasis on front, back, and material management utilizing computer systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

CHEF1441 - American Regional Cuisine

Course Title

American Regional Cuisine

Academic Level

Undergraduate

Description

A study of the development of regional cuisine's in the United States with emphasis on the similarities in production and service systems. Application of skills to develop, organize, and build a portfolio of recipe strategies and production systems.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - IFWA1427 - Food Preparation II (4)
 - PSTR2431 - Advanced Pastry Shop (4)

2026-2027 Catalog & Student Handbook

CHEF1445 - International Cuisine

Course Title

International Cuisine

Academic Level

Undergraduate

Description

The study of classical cooking skills associated with the preparation and service of international and ethnic cuisines. Topics include similarities between food production systems used in the United States and other regions of the world.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - IFWA1427 - Food Preparation II (4)
 - PSTR2431 - Advanced Pastry Shop (4)

Data Processing

2026-2027 Catalog & Student Handbook

ITSW1002 - Microsoft Excel

Course Title

Microsoft Excel

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ITSW1021 - Intro to Integrated Productivity Program

Course Title

Intro to Integrated Productivity Program

Academic Level

Continuing Education

Description

Integration of word processing, database, and spreadsheets. Includes formatting, file functions, printing, screen formats, data minupulation, record selection, indexing, sorting, moving, and copying.

Lecture Hours

1

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSW1030 - Ms Outlook

Course Title

Ms Outlook

Academic Level

Continuing Education

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

12

Semester Credit Hours

0

ITSW1037 - Introduction to Presentation Software

Course Title

Introduction to Presentation Software

Academic Level

Continuing Education

Description

Introduction to computerized presentation graphics that leads the participant through planning, design, and production of business graphics and charts. Presentation files are produced utilizing multimedia software.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSW1307 - Introduction to Database

Course Title

Introduction to Database

Academic Level

Undergraduate

Description

Introduction to database theory and the practical applications of a database.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSW1310 - Introduction to Presentation Graphics Software

Course Title

Introduction to Presentation Graphics Software

Academic Level

Undergraduate

Description

Instruction in the utilization of presentation software to produce multimedia presentations. Graphics, text, sound, animation and/or video may be used in presentation development.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSW2029 - Intermediate Spreadsheets II

Course Title

Intermediate Spreadsheets II

Academic Level

Continuing Education

Description

Techniques for customizing the spreadsheet environment by analyzing workbook data and creating worksheets and charts.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

ITSW2056 - Microsoft Powerpoint

Course Title

Microsoft Powerpoint

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Dental Hygiene

2026-2027 Catalog & Student Handbook

DHYG1002 - Nitrous Oxide Sedation Monitoring

Course Title

Nitrous Oxide Sedation Monitoring

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

DHYG1211 - Periodontology

Course Title

Periodontology

Academic Level

Undergraduate

Description

Normal and diseased periodontium including the structural, functional, and environmental factors. Emphasis on etiology, pathology, treatment modalities, and therapeutic and preventive periodontics.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

DHYG1215 - Community Dentistry

Course Title

Community Dentistry

Academic Level

Undergraduate

Description

The principles and concepts of community public health and dental health education emphasizing community assessment, educational planning, implementation, and evaluation including methods and materials used in teaching dental health education in various community settings.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

DHYG1219 - Dental Materials

Course Title

Dental Materials

Academic Level

Undergraduate

Description

Physical and chemical properties of dental materials including the application and manipulation of the various materials used in dentistry.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

DHYG1227 - Preventive Dental Hygiene Care **Course Title**

Preventive Dental Hygiene Care

Academic Level

Undergraduate

Description

The role of the dental hygienist as a therapeutic oral health care provider with emphasis on concepts of disease management, health promotion, communication, and behavior modification.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

DHYG1235 - Pharmacology for the Dental Hygienist **Course Title**

Pharmacology for the Dental Hygienist

Academic Level

Undergraduate

Description

Classification of drugs and their uses, actions, interactions, side effects, contraindications, with emphasis on dental applications.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

DHYG1239 - General and Oral Pathology

Course Title

General and Oral Pathology

Academic Level

Undergraduate

Description

Disturbances in human body development, diseases of the body, and disease prevention measures with emphasis on the oral cavity and associated structures.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

DHYG1301 - Orofacial Anatomy, Histology & Embryology

Course Title

Orofacial Anatomy, Histology & Embryology

Academic Level

Undergraduate

Description

The histology and embryology of oral tissues, gross anatomy of the head and neck, tooth morphology, and individual tooth identification.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DHYG1304 - Dental Radiology **Course Title**

Dental Radiology

Academic Level

Undergraduate

Description

Fundamentals of oral radiography, including techniques, interpretation, quality assurance, and ethics.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

DHYG1331 - Preclinical Dental Hygiene **Course Title**

Preclinical Dental Hygiene

Academic Level

Undergraduate

Description

Foundational knowledge for performing clinical skills and management of medical emergencies for patients with emphasis on procedures and rationale for performing dental hygiene care. Introduction to ethical principles as they apply to dental hygiene care.

Lecture Hours

1

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DHYG1360 - Clinical- Dental Hygiene/Hygienist Course Title

Clinical- Dental Hygiene/Hygienist

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete 192 hours total in the semester. It is recommended that a student completes 12 hours a week for the 15-week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

12

Total Contact Hours

192

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DHYG1331 - Preclinical Dental Hygiene (3)

2026-2027 Catalog & Student Handbook

DHYG2153 - Dental Hygiene Practice

Course Title

Dental Hygiene Practice

Academic Level

Undergraduate

Description

Emphasis on the laws governing the practice of dentistry and dental hygiene, moral standards, and the ethical standards established by the dental hygiene profession. Practice settings for the dental hygienist, office operations, preparation for employment, and introduction to the dental team.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Credits

1

Semester Credit Hours

1

DHYG2201 - Dental Hygiene Care I

Course Title

Dental Hygiene Care I

Academic Level

Undergraduate

Description

Dental hygiene care for the medically or dentally compromised patient including supportive treatment options.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

DHYG2360 - Clinical - Dental Hygiene/Hygienist **Course Title**

Clinical - Dental Hygiene/Hygienist

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete 224 total contact hours in the semester. It is recommended that a student completes 14 contact hours per week for the 15-week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

14

Total Contact Hours

224

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DHYG1360 - Clinical- Dental Hygiene/Hygienist (3)

2026-2027 Catalog & Student Handbook

DHYG2461 - Clinical- Dental Hygiene/Hygienist

Course Title

Clinical- Dental Hygiene/Hygienist

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete 256 total contact hours in the semester. It is recommended that a student completes 16 contact hours per week for the 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

16

Total Contact Hours

256

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - DHYG2360 - Clinical - Dental Hygiene/Hygienist (3)

Developmental Math

2026-2027 Catalog & Student Handbook

DMTH0100 - Introductory Algebra

Course Title

Introductory Algebra

Academic Level

Undergraduate

Description

This course covers introductory algebra topics.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Student has satisfied any of the following: [Institution has received a(n) Developmental Placement test result with a(n) Math score equal to 1.] [Institution has received a(n) Developmental Placement test result with a(n) Math score equal to 2.1.]

Corequisites

- Concurrently enrolled in:
 - NCBM0100 - BASE Math Lab (0)

2026-2027 Catalog & Student Handbook

DMTH0200 - Intermediate Algebra

Course Title

Intermediate Algebra

Academic Level

Undergraduate

Description

A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. Students completing this course with a C or better have completed their TSI requirements for math.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

3

Diesel Eng Mechanic & Repairer

DEMR1000 - Introduction to Shop Safety and Tools

Course Title

Introduction to Shop Safety and Tools

Academic Level

Continuing Education

Description

Shop safety, rules, basic shop tools, and test equipment.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DEMR1010 - Diesel Engine Testing/Repair I

Course Title

Diesel Engine Testing/Repair I

Academic Level

Continuing Education

Description

An introduction to testing and repairing diesel engines including related systems and specialized tools.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

52

Semester Credit Hours

0

DEMR1021 - Power Train I

Course Title

Power Train I

Academic Level

Continuing Education

Description

Fundamental repair and theory of power trains including clutches transmissions drive shafts and differentials. Emphasis on inspection and repair.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

52

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DEMR1023 - HVAC Troubleshooting & Repair

Course Title

HVAC Troubleshooting & Repair

Academic Level

Continuing Education

Description

Introduction to Heating, Ventilation, and Air Conditioning Theory, Testing, and Repair. Emphasis on Refrigerant Reclamation, Safety Procedures, Specialized Tools, and Repairs.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

DEMR1027 - Tractor Trailer Ser/Repair

Course Title

Tractor Trailer Ser/Repair

Academic Level

Continuing Education

Description

An introduction to and familiarization with components and systems related to tractor trailer service. Emphasis in records required by the Department of Transportation.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DEMR1229 - Preventative Maintenance

Course Title

Preventative Maintenance

Academic Level

Undergraduate

Description

An introductory course designed to provide the student with basic knowledge of proper servicing practices. Content includes record keeping and condition of major systems.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

DEMR1305 - Basic Electrical Systems

Course Title

Basic Electrical Systems

Academic Level

Undergraduate

Description

Basic principles of electrical systems of diesel powered equipment with emphasis on starters, alternators, and batteries.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DEMR1316 - Basic Hydraulics

Course Title

Basic Hydraulics

Academic Level

Undergraduate

Description

Fundamentals of hydraulics including components and related systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

DEMR1321 - Power Train I

Course Title

Power Train I

Academic Level

Undergraduate

Description

Fundamental repair and theory of power trains including clutches, transmissions, drive shafts, and differentials. Emphasis on inspection and repair.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair **Course Title**

Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair

Academic Level

Undergraduate

Description

Introduction to heating, ventilation, and air conditioning theory, testing, and repair. Emphasis on refrigerant reclamation, safety procedures, specialized tools, and repairs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

DEMR1329 - Preventative Maintenance **Course Title**

Preventative Maintenance

Academic Level

Undergraduate

Description

An introductory course designed to provide the student with basic knowledge of proper servicing practices. Content includes record keeping and condition of major systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DEMR1330 - Steering and Suspension I **Course Title**

Steering and Suspension I

Academic Level

Undergraduate

Description

A study of design, function, maintenance, and repair of steering and suspension systems. Emphasis on troubleshooting and repair of failed components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

DEMR1371 - Chassis I **Course Title**

Chassis I

Academic Level

Undergraduate

Description

A study of basic principles, design, function, maintenance, and repair of brakes and traction control systems. Emphasis on troubleshooting and repair of failed components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DEMR1372 - Chassis II **Course Title**

Chassis II

Academic Level

Undergraduate

Description

A study of advanced principles, design, function, maintenance, and repair of steering and suspension systems including wheel ends and tires. Emphasis on troubleshooting and repair of failed components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DEMR1371 - Chassis I (3)

2026-2027 Catalog & Student Handbook

DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment

Course Title

Introduction to Medium Heavy-Duty Truck and Equipment

Academic Level

Undergraduate

Description

An introduction to the medium heavy-duty truck and equipment industry including history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic maintenance. May be taught to manufacturer specification. A study of shop safety, preventative maintenance, and systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DEMR1380 - Cooperative Education - Diesel Mechanics Technology/Technician

Course Title

Cooperative Education - Diesel Mechanics Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete a total of 320 total contact hours in the semester. It is recommended that student completes 20 contact hours per week for the 15 week semester

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DEMR1406 - Diesel Engine I

Course Title

Diesel Engine I

Academic Level

Undergraduate

Description

An introduction to the basic principles of diesel engines and systems.

Lecture Hours

2 hr

Lab Hours

4 hr

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

DEMR1410 - Diesel Engine Testing and Repair I

Course Title

Diesel Engine Testing and Repair I

Academic Level

Undergraduate

Description

An introduction to testing and repairing diesel engines including related systems and specialized tools.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

DEMR1416 - Basic Hydraulics

Course Title

Basic Hydraulics

Academic Level

Undergraduate

Description

Fundamentals of hydraulics including components and related systems

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

04

Total Contact Hours

96

Credits

4

2026-2027 Catalog & Student Handbook

DEMR1447 - Power Train II

Course Title

Power Train II

Academic Level

Undergraduate

Description

Continuation of fundamentals and theory of power train systems. Emphasis on disassembly, inspection, and repair of power train components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete at least 3 credits from the following:
 - DEMR1321 - Power Train I (3)

2026-2027 Catalog & Student Handbook

DEMR2012 - Diesel Engine Testing and Repair II

Course Title

Diesel Engine Testing and Repair II

Academic Level

Continuing Education

Description

Continuation of Diesel Engine Testing and Repair I Coverage of testing and repairing diesel engines including related systems and specialized tools.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

52

Semester Credit Hours

0

DEMR2031 - Advanced Brake Systems

Course Title

Advanced Brake Systems

Academic Level

Continuing Education

Description

An advanced brake system course for diesel powered equipment. Advanced concepts and schematics including anti-lock, air, pneumatic, and hydraulic brake systems and related components.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DEMR2332 - Electronic Controls

Course Title

Electronic Controls

Academic Level

Undergraduate

Description

Intermediate skills in diagnostic and programming techniques of electronic control systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)

2026-2027 Catalog & Student Handbook

DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting **Course Title**

Advanced Diesel Tune-Up and Troubleshooting

Academic Level

Undergraduate

Description

Advanced concepts and skills required for tune-up and troubleshooting procedures of diesel engines. Emphasis on the science of strategy-based diagnostics.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

2026-2027 Catalog & Student Handbook

DEMR2335 - Advanced Hydraulics

Course Title

Advanced Hydraulics

Academic Level

Undergraduate

Description

Advanced study of hydraulic systems and components including diagnostics and testing of hydraulic systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DEMR1316 - Basic Hydraulics (3)
 - DEMR1416 - Basic Hydraulics (4)

2026-2027 Catalog & Student Handbook

DEMR2339 - Advanced Electrical Systems

Course Title

Advanced Electrical Systems

Academic Level

Undergraduate

Description

A continuation of basic electrical systems to include various accessories and electronic systems. Emphasis on diagnosis, testing, and repair using the various tools and procedures for current electrical and electronic systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - DEMR2332 - Electronic Controls (3)

2026-2027 Catalog & Student Handbook

DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II

Course Title

Automatic Power Shift and Hydrostatic Transmissions II

Academic Level

Undergraduate

Description

Extended study of the operation, maintenance, and repair of automatic power shift hydrostatic transmissions.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DEMR1321 - Power Train I (3)
 - Course Not Found
 - DEMR2412 - Diesel Engine Testing and Repair II (4)

2026-2027 Catalog & Student Handbook

DEMR2370 - Hybrid and Electric Vehicle Systems

Course Title

Hybrid and Electric Vehicle Systems

Academic Level

Undergraduate

Description

An advanced study of hybrid and/or battery electric vehicles (BEV) and the unique characteristics of hybrid and/or BEV systems. Includes hybrid and/or BEV safety procedures, diagnosis, and repair of hybrid and/or BEV systems. May be taught manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DEMR1305 - Basic Electrical Systems (3)
 - DEMR2332 - Electronic Controls (3)
 - DEMR2339 - Advanced Electrical Systems (3)

2026-2027 Catalog & Student Handbook

DEMR2412 - Diesel Engine Testing and Repair II

Course Title

Diesel Engine Testing and Repair II

Academic Level

Undergraduate

Description

Continuation of Diesel Engine Testing and Repair I. Coverage of testing and repairing diesel engines including related systems and specialized tools.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - DEMR1410 - Diesel Engine Testing and Repair I (4)

Dietetics/Human Nutritional

2026-2027 Catalog & Student Handbook

FDNS1305 - Nutrition **Course Title**

Nutrition

Academic Level

Undergraduate

Description

A study of nutrients including functions, food sources, digestion, absorption and metabolism with application to normal and preventive nutrition needs. Includes nutrient intake analysis, energy expenditure evaluation, and diet planning.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Drafting

DFTG1000 - Specialized Computer Aided Drafting Cad **Course Title**

Specialized Computer Aided Drafting Cad

Academic Level

Continuing Education

Description

A supplemental course to Basic Computer-Aided Drafting using an alternative computer-aided drafting (CAD) software.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DFTG1013 - Drafting for Specific Occupat **Course Title**

Drafting for Specific Occupat

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

DFTG1022 - Basic Blueprint Reading **Course Title**

Basic Blueprint Reading

Academic Level

Continuing Education

Description

Emphasis on accurate/efficient interpretation of symbols/graphic language required to produce working drawings

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DFTG1023 - Blueprint Reading for Sp Occup

Course Title

Blueprint Reading for Sp Occup

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

DFTG1309 - Basic Computer-Aided Drafting

Course Title

Basic Computer-Aided Drafting

Academic Level

Undergraduate

Description

An introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinate systems, and plot/print to scale.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1310 - Specialized Basic Computer Aided Drafting (CAD)

Course Title

Specialized Basic Computer Aided Drafting (CAD)

Academic Level

Undergraduate

Description

A supplemental course to Basic Computer Aided Drafting using an alternative computer-aided drafting (CAD) software to create detail and working drawings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1313 - Drafting for Specific Occupations

Course Title

Drafting for Specific Occupations

Academic Level

Undergraduate

Description

Discussion of theory and practice with drafting methods and the terminology required to prepare working drawings in specific or various occupational fields.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1317 - Architectural Drafting - Residential **Course Title**

Architectural Drafting - Residential

Academic Level

Undergraduate

Description

Architectural drafting procedures, practices, terms, and symbols. Preparation of detailed working drawings for residential structures. Emphasis on light frame construction methods.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARCE1321 - Architectural Illustration (3)

2026-2027 Catalog & Student Handbook

DFTG1325 - Blueprint Reading and Sketching

Course Title

Blueprint Reading and Sketching

Academic Level

Undergraduate

Description

An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1329 - Electro-Mechanical Drafting

Course Title

Electro-Mechanical Drafting

Academic Level

Undergraduate

Description

A basic course including layout and design of electro-mechanical equipment from engineering notes and sketches.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:

2026-2027 Catalog & Student Handbook

DFTG1330 - Civil Drafting 1

Course Title

Civil Drafting 1

Academic Level

Undergraduate

Description

Preparation of civil drawings including drafting methods and principles used in civil engineering.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)
 - DFTG1309 - Basic Computer-Aided Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG1333 - Mechanical Drafting

Course Title

Mechanical Drafting

Academic Level

Undergraduate

Description

Preparation of mechanical drawings including dimensioning and tolerances, sectioning techniques, orthographic projection, and pictorial drawings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)

2026-2027 Catalog & Student Handbook

DFTG1341 - Intermediate Technical Animation and Rendering

Course Title

Intermediate Technical Animation and Rendering

Academic Level

Undergraduate

Description

3-D modeling and rendering techniques including lighting, staging, camera, and special effects. Emphasizes 3-D modeling building blocks using primitives to create simple and complex architectural/mechanical models.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

DFTG1345 - Parametric Modeling and Design

Course Title

Parametric Modeling and Design

Academic Level

Undergraduate

Description

Parametric-based design software for 3D design and drafting.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1357 - Specialized Intermediate Computer-Aided Drafting (CAD)

Course Title

Specialized Intermediate Computer-Aided Drafting (CAD)

Academic Level

Undergraduate

Description

A continuation of practices and techniques used in Specialized Basic Computer-Aided Drafting. Emphasizes advanced dimensioning techniques, the development and use of prototype drawings, construction of pictorial drawings, interfacing two-dimensional (2D) and/or three-dimensional (3D) environments and extracting data.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1358 - Electrical/Electronics Drafting

Course Title

Electrical/Electronics Drafting

Academic Level

Undergraduate

Description

Electrical and electronic drawings stressing modern representation used for block diagrams, schematic diagrams, logic diagrams, wiring/assembly drawings, printed circuit board layouts, motor control diagrams, power distribution diagrams, and electrical one-line diagrams.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG1329 - Electro-Mechanical Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG1380 - Coop-Drafting

Course Title

Coop-Drafting

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Through a Cooperative Agreement Between the College, Employer, and Student. Under Supervision of the College And the Employer, the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience. This Course May Be Repeated If Topics and Learning Outcomes Vary.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

17

Total Contact Hours

288

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG1392 - Special Topics in Architectural Drafting and Architectural CAD/CADD **Course Title**

Special Topics in Architectural Drafting and Architectural CAD/CADD

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)

2026-2027 Catalog & Student Handbook

DFTG1393 - Special Topics in Civil Drafting Civil Engineering CAD/CADD

Course Title

Special Topics in Civil Drafting Civil Engineering CAD/CADD

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2321 - Topographical Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG1395 - Special Topics in Mechanical Drafting and Mechanical Drafting CAD/CADD **Course Title**

Special Topics in Mechanical Drafting and Mechanical Drafting CAD/CADD

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)

DFTG2050 - Online Geometric Dimensioning Tolerancin **Course Title**

Online Geometric Dimensioning Tolerancin

Academic Level

Continuing Education

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

66

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

DFTG2302 - Machine Drafting

Course Title

Machine Drafting

Academic Level

Undergraduate

Description

Production of detail and assembly drawings of machines, threads, gears, utilizing tolerances, limit dimensioning, and surface finishes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG1333 - Mechanical Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG2306 - Machine Design

Course Title

Machine Design

Academic Level

Undergraduate

Description

Theory and practice of design. Projects in problem-solving, including press fit, bolted and welded joints, and transmission components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG2312 - Technical Illustration and Presentation

Course Title

Technical Illustration and Presentation

Academic Level

Undergraduate

Description

Pictorial drawing including isometrics, obliques, perspectives, charts, and graphs. Emphasis on rendering and using different media.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)

2026-2027 Catalog & Student Handbook

DFTG2321 - Topographical Drafting

Course Title

Topographical Drafting

Academic Level

Undergraduate

Description

Plotting of surveyor's field notes. Includes drawing elevations, contour lines, plan and profiles, and laying out traverses.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG1330 - Civil Drafting 1 (3)

2026-2027 Catalog & Student Handbook

DFTG2323 - Pipe Drafting **Course Title**

Pipe Drafting

Academic Level

Undergraduate

Description

A study of pipe fittings, symbols, specifications and their applications to a piping process system. Creation of symbols and their usage in flow diagrams, plans, elevations, and isometrics.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:

2026-2027 Catalog & Student Handbook

DFTG2328 - Architectural Drafting - Commercial **Course Title**

Architectural Drafting - Commercial

Academic Level

Undergraduate

Description

Architectural drafting procedures, practices, governing codes, terms and symbols, including the preparation of detailed working drawings for a commercial building, with emphasis on commercial construction methods.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG1317 - Architectural Drafting - Residential (3)

2026-2027 Catalog & Student Handbook

DFTG2330 - Civil Drafting

Course Title

Civil Drafting

Academic Level

Undergraduate

Description

An in-depth study of drafting methods and principles used in civil engineering.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG2331 - Adv Techn-Architect Design & Drafting Design and Drafting

Course Title

Adv Techn-Architect Design & Drafting Design and Drafting

Academic Level

Undergraduate

Description

Use of architectural specific software to execute the elements required in designing standard architectural exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential/commercial and industrial architecture.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2328 - Architectural Drafting - Commercial (3)

2026-2027 Catalog & Student Handbook

DFTG2332 - Advanced Computer-Aided Drafting

Course Title

Advanced Computer-Aided Drafting

Academic Level

Undergraduate

Description

Application of advanced CAD techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2340 - Solid Modeling/Design (3)

2026-2027 Catalog & Student Handbook

DFTG2335 - Advanced Technologies in Mechanical Design and Drafting

Course Title

Advanced Technologies in Mechanical Design and Drafting

Academic Level

Undergraduate

Description

Use parametric-based software for mechanical design for advanced modeling and analysis.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2302 - Machine Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG2340 - Solid Modeling/Design

Course Title

Solid Modeling/Design

Academic Level

Undergraduate

Description

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2302 - Machine Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG2350 - Geometric Dimensioning and Tolerancing

Course Title

Geometric Dimensioning and Tolerancing

Academic Level

Undergraduate

Description

Geometric dimensioning and tolerancing, according to standards, application of various geometric dimensions and tolerances to production drawings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - DFTG2302 - Machine Drafting (3)

2026-2027 Catalog & Student Handbook

DFTG2357 - Advanced Technologies in Pipe Design and Drafting

Course Title

Advanced Technologies in Pipe Design and Drafting

Academic Level

Undergraduate

Description

Advanced design and production techniques using specialized process plant based design software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)

2026-2027 Catalog & Student Handbook

DFTG2380 - Cooperative Education Drafting and Design Techogy/Technican **Course Title**

Cooperative Education Drafting and Design Techogy/Technican

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Are Offered Through a Cooperative Agreement Between the College, the Employer, and Student. Under Supervision Of the College and the Employer, the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience. This Course May Be Repeated If Topics and Learning Outcomes Vary.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

17

Total Contact Hours

288

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG2381 - Cooperative Education Drafting and Design Techolgy/Tech.

Course Title

Cooperative Education Drafting and Design Techolgy/Tech.

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Offered Through a Individualized Agreement among the College, Employer, and Student. Under Supervision of The College and the Employer, the Student Combines Classroom Learning With Work Experience. Includes a Lecture Component.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DFTG2386 - Internship - Drafting and Design Technology/Technician, General **Course Title**

Internship - Drafting and Design Technology/Technician, General

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 144 hours total in the semester. It is recommended that a student completes 9 contact hours per week for the 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - DFTG1309 - Basic Computer-Aided Drafting (3)
 - DFTG1310 - Specialized Basic Computer Aided Drafting (CAD) (3)

2026-2027 Catalog & Student Handbook

DFTG2680 - Cooperative Education

Course Title

Cooperative Education

Academic Level

Undergraduate

Description

Drafting and Design Technology/Technician, General Career Related Activities Encountered in the Student's Area of Specialization Offered Through Individualized Agreement among the College, Employer, And Student. Under Supervision of the College and the Employer, The Student Combines Classroom Learning With Work Experience. Includes a Lecture component.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

Drug/Alcohol Abuse Counseling

2026-2027 Catalog & Student Handbook

DAAC1304 - Pharmacology of Substance Use Disorders

Course Title

Pharmacology of Substance Use Disorders

Academic Level

Undergraduate

Description

Emphasizes pharmacological effects of substances, including tolerance, dependence, cross addiction, drug interaction, withdrawal, and recovery. Describes the psychological and physiological effects of substance use and behaviors.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

DAAC1305 - Co-Occurring Disorders

Course Title

Co-Occurring Disorders

Academic Level

Undergraduate

Description

Provides students with an overview of co-occurring psychiatric and substance use disorders and their impact on the individual, family, and community. Includes an integrated approach to address the issues accompanying co-occurring disorders.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC1309 - Assessment of Substance Use Disorders

Course Title

Assessment of Substance Use Disorders

Academic Level

Undergraduate

Description

Exploration of procedures and tools used to identify substance use disorders and assess a client's problems, strengths, limitations and resources.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

DAAC1311 - Counseling Theories

Course Title

Counseling Theories

Academic Level

Undergraduate

Description

An examination of major theories and current treatment modalities used in the field of counseling.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC1317 - Basic Counseling Skills

Course Title

Basic Counseling Skills

Academic Level

Undergraduate

Description

An overview and application of the basic counseling skills.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

DAAC1319 - Introduction to Substance Use Disorders

Course Title

Introduction to Substance Use Disorders

Academic Level

Undergraduate

Description

An overview of causes and impacts of substance use disorders, the primary prevention, intervention, and treatment methods utilized, the major drug classifications, and the counselor's code of ethics.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC1391 - Spec Topics - Alcohol/Drug Abuse Counsel **Course Title**

Spec Topics - Alcohol/Drug Abuse Counsel

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

3

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

DAAC2301 - Therapeutic Communities in a Criminal Justice Setting **Course Title**

Therapeutic Communities in a Criminal Justice Setting

Academic Level

Undergraduate

Description

A study of therapeutic communities as an approach to rehabilitation of substance users in a criminal justice setting.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC2306 - Substance Abuse Prevention I **Course Title**

Substance Abuse Prevention I

Academic Level

Undergraduate

Description

Examination of substance use disorder prevention.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

DAAC2307 - Family Intervention with Substance Use Disorders **Course Title**

Family Intervention with Substance Use Disorders

Academic Level

Undergraduate

Description

Examination of family systems focusing on the effects of substance use and recovery.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC2341 - Counseling of Substance Use Disorders

Course Title

Counseling of Substance Use Disorders

Academic Level

Undergraduate

Description

Advanced examination of knowledge, skills, attitudes, techniques, confidentiality and ethical guidelines applied in the counseling, treatment, prevention, and recovery of substance use disorders.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

DAAC2343 - Current Issues

Course Title

Current Issues

Academic Level

Undergraduate

Description

Examination of current issues related to substance use disorders.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC2354 - Dynamics of Group Counseling

Course Title

Dynamics of Group Counseling

Academic Level

Undergraduate

Description

Exploration of group counseling skills, techniques, stages of group development, and confidentiality and ethics.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

DAAC2366 - Practicum (or Field Experience) - Substance Abuse/Addiction Counseling Course Title

Practicum (or Field Experience) - Substance Abuse/Addiction Counseling

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

Students are required to complete 336 total contact hours in the semester. The student should complete 21 external contact hours per week for a 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

21

Total Contact Hours

336

Credits

3

Semester Credit Hours

3

Early Childhood Education

2026-2027 Catalog & Student Handbook

TECA1318 - Wellness of the Young Child

Course Title

Wellness of the Young Child

Academic Level

Undergraduate

Description

A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Assessment of Educational Progress position statement related to developmentally appropriate practices for children from birth to age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Course includes a minimum of 16 hours of field experiences.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

TECA1354 - Child Growth & Development

Course Title

Child Growth & Development

Academic Level

Undergraduate

Description

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Economics

2026-2027 Catalog & Student Handbook

ECON1301 - Introduction to Economics

Course Title

Introduction to Economics

Academic Level

Undergraduate

Description

A survey of microeconomic and macroeconomic principles for non-business majors. Microeconomic topics will include supply and demand, consumer behavior, price and output decisions by firms under various market structures, factor markets, market failures, international trade, and exchange rates. Macroeconomic topics will include national income, unemployment, inflation, business cycles, aggregate supply and demand, monetary and fiscal policy, and economic growth.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ECON2301 - Principles of Macroeconomics

Course Title

Principles of Macroeconomics

Academic Level

Undergraduate

Description

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ECON2302 - Principles of Microeconomics

Course Title

Principles of Microeconomics

Academic Level

Undergraduate

Description

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Electrical

EECT1005 - Basic Industrial Electricity

Course Title

Basic Industrial Electricity

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EECT1041 - Electric Motors

Course Title

Electric Motors

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Electrical & Power Transmission

ELPT1000 - Basic Electrical Wiring

Course Title

Basic Electrical Wiring

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELPT1001 - Electromechanical Basics

Course Title

Electromechanical Basics

Academic Level

Continuing Education

Description

Includes minimum requirements for approval of electrical installation specified by the National Electrical Code (NEC). Examination of all aspects of electrical installation from the standpoint of safety for personnel and equipment.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

24

Semester Credit Hours

0

ELPT1002 - Introduction to Electrical Controls

Course Title

Introduction to Electrical Controls

Academic Level

Continuing Education

Description

General principles of electrical controls and their components in the electrical power industry. Includes reading electrical diagrams and identifying industrial switches and pilot devices. Introduction to hardwiring and troubleshooting of industrial control relays and timers.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELPT1003 - Introduction to Programmable Logic Controllers

Course Title

Introduction to Programmable Logic Controllers

Academic Level

Continuing Education

Description

Basic hardware and software applications for industrial Programmable Logic Controllers (PLC). Includes power supplies, discrete Input/Output (IO) modules, programming devices, processors, basic logic elements, timers, and counters.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

39

Semester Credit Hours

0

ELPT1011 - Basic Electrical Theory

Course Title

Basic Electrical Theory

Academic Level

Continuing Education

Description

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

Lecture Hours

5

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

87

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELPT1040 - Master Electrician Exam Review

Course Title

Master Electrician Exam Review

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ELPT1041 - Motor Control

Course Title

Motor Control

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELPT1051 - Electrical Machines

Course Title

Electrical Machines

Academic Level

Continuing Education

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

ELPT1091 - Special Topics in Electrical and Power Transmission Installer, General

Course Title

Special Topics in Electrical and Power Transmission Installer, General

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELPT1215 - Electrical Calculations I

Course Title

Electrical Calculations I

Academic Level

Undergraduate

Description

Introduction to mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, percentages, simple equations, ratio and proportion, unit conversions, and applied geometry.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

ELPT1221 - Introduction to Electrical Safety and Tools

Course Title

Introduction to Electrical Safety and Tools

Academic Level

Undergraduate

Description

Safety rules and regulations. Includes the selection, inspection, use, and maintenance of common tools for electricians.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

ELPT1225 - National Electrical Code I

Course Title

National Electrical Code I

Academic Level

Undergraduate

Description

An introductory study of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring design, protection, methods, and materials; equipment for general use; and basic calculations.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

ELPT1291 - Special Topics in Electrical and Power Transmission Installer, General

Course Title

Special Topics in Electrical and Power Transmission Installer, General

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

1

Lab Hours

3

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

ELPT1311 - Basic Electrical Theory

Course Title

Basic Electrical Theory

Academic Level

Undergraduate

Description

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ELPT1315 - Electrical Calculations I

Course Title

Electrical Calculations I

Academic Level

Undergraduate

Description

Introduction to mathematical applications utilized to solve problems in the electrical field. Topics include fractions, decimals, percentages, simple equations, ratio and proportion, unit conversions, and applied geometry.

Lecture Hours

2

Lab Hours

2

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1319 - Fundamentals of Electricity I

Course Title

Fundamentals of Electricity I

Academic Level

Undergraduate

Description

An introduction to basic direct current (DC) theory including electron theory and direct current applications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1320 - Fundamentals of Electricity II

Course Title

Fundamentals of Electricity II

Academic Level

Undergraduate

Description

Introduces alternating current (AC). Includes AC voltage, frequency, mechanical and electrical degrees, waveforms, resistors, capacitors, and inductors.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 credits from the following:
 - CETT1303 - DC Circuits (3)
 - ELPT1319 - Fundamentals of Electricity I (3)

2026-2027 Catalog & Student Handbook

ELPT1321 - Introduction to Electrical Safety and Tools

Course Title

Introduction to Electrical Safety and Tools

Academic Level

Undergraduate

Description

Safety rules and regulations. Includes the selection, inspection, use, and maintenance of common tools for electricians.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

ELPT1325 - National Electrical Code I

Course Title

National Electrical Code I

Academic Level

Undergraduate

Description

An introductory study of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring design, protection, methods, and materials; equipment for general use; and basic calculations.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1329 - Residential Wiring

Course Title

Residential Wiring

Academic Level

Undergraduate

Description

Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1340 - Master Electrician Exam Review I

Course Title

Master Electrician Exam Review I

Academic Level

Undergraduate

Description

Electrical theory, code calculations, and interpretations applicable to becoming a Master Electrician. Emphasizes residential, commercial, and industrial installations using the current edition of the National Electric Code (NEC) and local ordinances.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT2301 - Journeyman Electrician Exam Review (3)

2026-2027 Catalog & Student Handbook

ELPT1341 - Motor Control

Course Title

Motor Control

Academic Level

Undergraduate

Description

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - AACT1371 - Electronics Fundamentals in Automation (3)
 - CETT1303 - DC Circuits (3)
 - ELPT1311 - Basic Electrical Theory (3)
 - ELPT1319 - Fundamentals of Electricity I (3)
 - INMT1372 - Introduction to Industrial Electricity (3)

2026-2027 Catalog & Student Handbook

ELPT1345 - Commercial Wiring

Course Title

Commercial Wiring

Academic Level

Undergraduate

Description

Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper grounding techniques, and associated safety procedures.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ELPT1329 - Residential Wiring (3)
 - Completed or concurrently enrolled in:
 - ELPT1311 - Basic Electrical Theory (3)

2026-2027 Catalog & Student Handbook

ELPT1351 - Electrical Machines

Course Title

Electrical Machines

Academic Level

Undergraduate

Description

Direct current (DC) motors, single-phase and polyphase alternating current (AC) motors, generators, and alternators. Emphasis on construction, characteristics, efficiencies, starting, and speed control.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 credits from the following:
 - ELPT1320 - Fundamentals of Electricity II (3)
 - ELPT1341 - Motor Control (3)

2026-2027 Catalog & Student Handbook

ELPT1357 - Industrial Wiring

Course Title

Industrial Wiring

Academic Level

Undergraduate

Description

Wiring methods used for industrial installations. Includes motor circuits, raceway and bus way installations, proper grounding techniques, and associated safety procedures.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ELPT1329 - Residential Wiring (3)
 - Completed or concurrently enrolled in:
 - ELPT1311 - Basic Electrical Theory (3)

2026-2027 Catalog & Student Handbook

ELPT1364 - Practicum - Electrical&power Trans Insta Electrical and Power Transmission Installer **Course Title**

Practicum - Electrical&power Trans Insta Electrical and Power Transmission Installer

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

30

Total Contact Hours

480

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1380 - Cooperative Education - Electrical and Power Transmission Installation/Installer, General Course Title

Cooperative Education - Electrical and Power Transmission Installation/Installer, General

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 320 total contact hours in the semester. The student should complete 19 external contact hours per week and 1 lecture contact hour per week.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1391 - Special Topics in Electrical and Power Transmission Installer, General Course Title

Special Topics in Electrical and Power Transmission Installer, General

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELPT1481 - Cooperative Education - Electrical and Power Transmission Installation/Installer, General Course Title

Cooperative Education - Electrical and Power Transmission Installation/Installer, General

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 496 total contact hours in the semester. The student should complete 30 external contact hours per week and 1 lecture contact hour per week for the 15 week term.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

30

Total Contact Hours

496

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ELPT1329 - Residential Wiring (3)
 - ELPT1345 - Commercial Wiring (3)
 - ELPT1357 - Industrial Wiring (3)
 - ELPT2337 - Electrical Planning and Estimating (3)

2026-2027 Catalog & Student Handbook

ELPT1491 - Special Topics in Electrical and Power Transmission Installer, General Course Title

Special Topics in Electrical and Power Transmission Installer, General

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ELPT1329 - Residential Wiring (3)
 - ELPT1345 - Commercial Wiring (3)
 - ELPT1357 - Industrial Wiring (3)
 - ELPT2337 - Electrical Planning and Estimating (3)

2026-2027 Catalog & Student Handbook

ELPT1680 - Cooperative Education - Electrical and Power Transmission Installation/Installer, General Course Title

Cooperative Education - Electrical and Power Transmission Installation/Installer, General

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 640 total contact hours in the semester. The student should complete 39 external contact hours per week and 1 lecture contact hour per week.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

2026-2027 Catalog & Student Handbook

ELPT1681 - Cooperative Education - Electrical and Power Transmission Installation/ Installer, General Course Title

Cooperative Education - Electrical and Power Transmission Installation/ Installer, General

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 640 total contact hours in the semester. The student should complete 39 external contact hours per week and 1 lecture contact hour per week.

Lecture Hours

16

Lab Hours

0

Ext. Con. Hrs

624

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

Prerequisites

- Complete the following:
 - ELPT1329 - Residential Wiring (3)
 - ELPT1345 - Commercial Wiring (3)
 - ELPT1357 - Industrial Wiring (3)
 - ELPT2337 - Electrical Planning and Estimating (3)

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ELPT2001 - Journeyman Electrician Exam Re Course Title

Journeyman Electrician Exam Re

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ELPT2019 - Programmable Logic Controllers Course Title

Programmable Logic Controllers

Academic Level

Continuing Education

Description

FUNDAMENTAL CONCEPTS OF PROGRAMMABLE LOGIC CONTROLLERS, PRINCIPLES OF OPERATION, NUMBERING SYSTEMS, LOGIC GATES, AND BOOLEAN EXPRESSIONS AS APPLIED TO ELECTRICAL CONTROLS/

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

50

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELPT2301 - Journeyman Electrician Exam Review

Course Title

Journeyman Electrician Exam Review

Academic Level

Undergraduate

Description

Preparation for journeyman electrician licensure with emphasis on calculations and the National Electrical Code (NEC).

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT2315 - Electrical Calculations II (3)
 - ELPT2325 - National Electrical Code II (3)

2026-2027 Catalog & Student Handbook

ELPT2305 - Motors and Transformers

Course Title

Motors and Transformers

Academic Level

Undergraduate

Description

Operation of single- and three-phase motors and transformers. Includes transformer banking, power factor correction, and protective devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - ELPT1341 - Motor Control (3)

2026-2027 Catalog & Student Handbook

ELPT2315 - Electrical Calculations II

Course Title

Electrical Calculations II

Academic Level

Undergraduate

Description

Mathematical applications used to solve problems in the electrical field. Includes fractions, decimals, ratio and proportion, applied geometry, and utilization of right triangles to calculate electrical values.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT1315 - Electrical Calculations I (3)

2026-2027 Catalog & Student Handbook

ELPT2319 - Programmable Logic Controllers I

Course Title

Programmable Logic Controllers I

Academic Level

Undergraduate

Description

Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electrical controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - ELPT1341 - Motor Control (3)

2026-2027 Catalog & Student Handbook

ELPT2323 - Transformers

Course Title

Transformers

Academic Level

Undergraduate

Description

Transformer types, construction, connections, protection, grounding, and associated safety procedures.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT2335 - Electrical Theory and Devices (3)

2026-2027 Catalog & Student Handbook

ELPT2325 - National Electrical Code II

Course Title

National Electrical Code II

Academic Level

Undergraduate

Description

In-depth coverage of the National Electrical Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring protection and methods, special conditions, and advanced calculations.

Lecture Hours

2

Lab Hours

2

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT1325 - National Electrical Code I (3)

2026-2027 Catalog & Student Handbook

ELPT2331 - AC/DC Drives

Course Title

AC/DC Drives

Academic Level

Undergraduate

Description

Installation and maintenance of alternating current (AC) and direct current (DC) variable speed drives with emphasis on application, operating characteristics, and troubleshooting techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ELPT1341 - Motor Control (3)
 - Complete at least 3 credits from the following:
 - ELPT1351 - Electrical Machines (3)
 - ELPT2305 - Motors and Transformers (3)

2026-2027 Catalog & Student Handbook

ELPT2335 - Electrical Theory and Devices

Course Title

Electrical Theory and Devices

Academic Level

Undergraduate

Description

Electrical and electronic measuring devices and their applications to the use of electrical power. Includes calculating and balancing single-phase and three-phase systems.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - CETT1305 - AC Circuits (3)
 - MATH1316 - Plane Trigonometry (3)
 - ELPT1320 - Fundamentals of Electricity II (3)

2026-2027 Catalog & Student Handbook

ELPT2337 - Electrical Planning and Estimating

Course Title

Electrical Planning and Estimating

Academic Level

Undergraduate

Description

Planning and estimating for residential, commercial, and industrial wiring systems. Includes a variety of electrical techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - ELPT1311 - Basic Electrical Theory (3)

2026-2027 Catalog & Student Handbook

ELPT2339 - Electrical Power Distribution

Course Title

Electrical Power Distribution

Academic Level

Undergraduate

Description

Design, operation, and technical details of modern power distribution systems including generating equipment, transmission lines, plant distribution, and protective devices. Includes calculations of fault current, system load analysis, rates, and power economics.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 credits from the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1320 - Fundamentals of Electricity II (3)
- Complete the following:
 - DFTG1313 - Drafting for Specific Occupations (3)

2026-2027 Catalog & Student Handbook

ELPT2343 - Electrical Systems Design

Course Title

Electrical Systems Design

Academic Level

Undergraduate

Description

Electrical design of commercial and/or industrial projects including building layout, types of equipment, placement, sizing of electrical equipment, and all electrical calculations according to the requirements of the National Electrical Code (NEC).

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - DFTG1313 - Drafting for Specific Occupations (3)
 - Complete at least 1 of the following:
 - EEIR1309 - National Electrical Code (3)
 - ELPT2339 - Electrical Power Distribution (3)

2026-2027 Catalog & Student Handbook

ELPT2347 - Electrical Testing and Maintenance

Course Title

Electrical Testing and Maintenance

Academic Level

Undergraduate

Description

Proper and safe use of electrical power equipment test devices and the interpretation of test results. Includes protective relay testing and calibration, direct current (DC) testing, insulation power factor testing, and medium voltage switchgear.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 of the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1320 - Fundamentals of Electricity II (3)
- Complete the following:
 - ELPT1351 - Electrical Machines (3)
- Completed or concurrently enrolled in:
 - ELPT2339 - Electrical Power Distribution (3)

2026-2027 Catalog & Student Handbook

ELPT2349 - Industrial Automation

Course Title

Industrial Automation

Academic Level

Undergraduate

Description

Electrical control systems, applications, and interfacing utilized in industrial automation.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT2319 - Programmable Logic Controllers I (3)

ELPT2355 - Programmable Logic Controllers II

Course Title

Programmable Logic Controllers II

Academic Level

Undergraduate

Description

Advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Electromechanical Technician

ELMT1001 - Programmable Logic Controllers

Course Title

Programmable Logic Controllers

Academic Level

Continuing Education

Description

An introduction to programmable logic controllers as used in industrial environments including basic concepts, programming, applications, troubleshooting of ladder logic, and interfacing of equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

ELMT1003 - Programmable Logic Controllers

Course Title

Programmable Logic Controllers

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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ELMT1091 - Special Topics in Electromechanical Technology/Technician **Course Title**

Special Topics in Electromechanical Technology/Technician

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

7

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

112

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELMT1301 - Programmable Logic Controllers

Course Title

Programmable Logic Controllers

Academic Level

Undergraduate

Description

An introduction to programmable logic controllers as used in industrial environments including basic concepts, programming, applications, troubleshooting of ladder logic, and interfacing of equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1325 - Digital Fundamentals (3)

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ELMT1305 - Basic Fluid Power

Course Title

Basic Fluid Power

Academic Level

Undergraduate

Description

Basic fluid power course covering pneumatic and hydraulic systems, fluid power symbols, operating theory, components, and basic electrical and manual controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELMT1373 - Pumps and Compressors Control

Course Title

Pumps and Compressors Control

Academic Level

Undergraduate

Description

This course explores study of the theory and operations of various types of pumps and compressors. Topics include mechanical circuit, electrical circuit with emphasis in 3 phase control, mechanical safety devices, flow control devices and pressure control devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)

2026-2027 Catalog & Student Handbook

ELMT1374 - Introduction to Electromechanical System

Course Title

Introduction to Electromechanical System

Academic Level

Undergraduate

Description

Introduction to electro-mechanical systems, with emphasis safety and office documents.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ELMT1391 - Special Topics in Electromechanical Technology/Technician

Course Title

Special Topics in Electromechanical Technology/Technician

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

Lecture Hours

1

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

33

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELMT1405 - Basic Fluid Power

Course Title

Basic Fluid Power

Academic Level

Undergraduate

Description

Basic fluid power course covering pneumatic and hydraulic systems, fluid power symbols, operating theory, components, and basic electrical and manual controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ELMT1491 - Special Topics in Electromechanical Technology/Technician

Course Title

Special Topics in Electromechanical Technology/Technician

Academic Level

Undergraduate

Description

This course is designed to familiarize the student with concepts in electro-mechanical technology specific to wind turbines.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ELMT2239 - Advanced Programmable Logic Controllers (2)

ELMT2039 - Advanced Prog Logic Controller

Course Title

Advanced Prog Logic Controller

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ELMT2239 - Advanced Programmable Logic Controllers

Course Title

Advanced Programmable Logic Controllers

Academic Level

Undergraduate

Description

Advanced applications of programmable logic controllers as used in industrial environments including concepts of programming, industrial applications, troubleshooting ladder logic, and interfacing to equipment.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - ELMT1301 - Programmable Logic Controllers (3)

2026-2027 Catalog & Student Handbook

ELMT2333 - Industrial Electronics

Course Title

Industrial Electronics

Academic Level

Undergraduate

Description

Devices, circuits, and systems primarily used in automated manufacturing and/or process control including computer controls and interfacing between mechanical, electrical, electronic, and computer equipment. Includes presentation of programming schemes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ELMT2335 - Certified Electronics Technician Training

Course Title

Certified Electronics Technician Training

Academic Level

Undergraduate

Description

Review of electronics concepts and principles in preparation for sitting for a certification examination administered by an outside organization or agency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELMT2339 - Advanced Programmable Logic Controllers **Course Title**

Advanced Programmable Logic Controllers

Academic Level

Undergraduate

Description

Advanced applications of programmable logic controllers as used in industrial environments including concepts of programming, industrial applications, troubleshooting ladder logic, and interfacing to equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1301 - Programmable Logic Controllers (3)

2026-2027 Catalog & Student Handbook

ELMT2341 - Electromechanical Systems

Course Title

Electromechanical Systems

Academic Level

Undergraduate

Description

Application of electromechanical systems. Emphasizes programmable control devices and solid state systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELMT1374 - Introduction to Electromechanical System (3)

2026-2027 Catalog & Student Handbook

ELMT2371 - Industrial Control Power Devices

Course Title

Industrial Control Power Devices

Academic Level

Undergraduate

Description

This course explores theoretical concepts in power devices control. Emphasis in 3 phase control, system design, protection control devices, wiring and troubleshooting. In-depth coverage of power devices applications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

ELMT2372 - Process Control Systems

Course Title

Process Control Systems

Academic Level

Undergraduate

Description

Fundamental concepts of instrumentation process control. Course instruct students to program process control equipment, change controller parameter and analyze monitoring data.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELMT1373 - Pumps and Compressors Control (3)

2026-2027 Catalog & Student Handbook

ELMT2373 - Communication Protocols

Course Title

Communication Protocols

Academic Level

Undergraduate

Description

An introductory course to communications protocols in order to address industrial needs for connecting devices as they apply to industry. Industrial and traditional communication working together with emerging technologies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1325 - Digital Fundamentals (3)

2026-2027 Catalog & Student Handbook

ELMT2380 - Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology **Course Title**

Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Students are required to work a minimum of 16 hours a week. They must work at least 240 hrs during the semester.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

20

Total Contact Hours

336

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ELMT2480 - Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology **Course Title**

Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

21

Total Contact Hours

352

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ELMT2239 - Advanced Programmable Logic Controllers (2)

Electronics

2026-2027 Catalog & Student Handbook

EEIR1309 - National Electrical Code **Course Title**

National Electrical Code

Academic Level

Undergraduate

Description

Interpretation of the National Electrical Code for residential, commercial and industrial wiring. Emphasis on designing, constructing, and troubleshooting electrical systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - CETT1305 - AC Circuits (3)
 - ELPT1320 - Fundamentals of Electricity II (3)
 - Complete the following:
 - ELPT1341 - Motor Control (3)

2026-2027 Catalog & Student Handbook

EEIR1371 - Electrical Principles and Applications

Course Title

Electrical Principles and Applications

Academic Level

Undergraduate

Description

Major topics include safety; the engineering subset of metric prefixes; engineering notation; electronic abbreviations; schematic symbols; resistor color codes; wire size and composition; Ohm's Law, Watt's Law, and Kirchhoff's Laws; analysis of simple direct current and alternating current circuitry; and basic electrical devices including direct current motors, transformers, and passive filters. Laboratory sessions will stress use of test equipment including the digital multimeter and oscilloscope, construction of simple circuits, and troubleshooting techniques to determine faults in simple circuits.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EEIR2388 - Internship - Industrial Electronics Technology/Technician

Course Title

Internship - Industrial Electronics Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

10

Total Contact Hours

160

Credits

3

Semester Credit Hours

3

IEIR1302 - Introduction to Direct Current Circuits

Course Title

Introduction to Direct Current Circuits

Academic Level

Undergraduate

Description

Fundamentals of Direct Current Including Ohm's Law. Emphasis on Methods of Analyzing Series, Parallel, and Combination Circuits Including Measurement Devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IEIR1304 - Alternating Current Circuits for Industrial Applications

Course Title

Alternating Current Circuits for Industrial Applications

Academic Level

Undergraduate

Description

Fundamentals of Alternating Current Including Series and Parallel Circuits, Phasors, and Capacitive and Inductive Networks. Discussion of Circuit Analysis and Measurement

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IEIR1371 - Electrical Principles and Applications

Course Title

Electrical Principles and Applications

Academic Level

Undergraduate

Description

Major topics include safety; the engineering subset of metric prefixes; engineering notation; electronic abbreviations; schematic symbols; resistor color codes; wire size and composition; Ohm's Law, Watt's Law, and Kirchhoff's Laws; analysis of simple direct current and alternating current circuitry; and basic electrical devices including direct current motors, transformers, and passive filters. Laboratory sessions will stress use of test equipment including the digital multimeter and oscilloscope, construction of simple circuits, and troubleshooting techniques to determine faults in simple circuits.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

95

Credits

3

Semester Credit Hours

3

ITNW1000 - Network Technologies-Novell 5

Course Title

Network Technologies-Novell 5

Academic Level

Continuing Education

Description

Basic computer networking terminology and concepts, contemporary network services, transmission media, and protocols.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITNW1058 - Network+ Course Title

Network+

Academic Level

Continuing Education

Description

Prepares individuals for a career as a Network Engineer in the Information Technology support industry. Includes the various responsibilities and tasks required for service engineer to successfully perform in a specific environment. Prepares individuals to pass the Computing Technology Industry Association (CompTia) Network+ certification exam.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

ITNW1059 - World Wide Web Course Title

World Wide Web

Academic Level

Continuing Education

Description

This course will focus on the use of the World Wide Web (WWW) and the creation of a home page. Web browsers and Hypertext Markup Language (HTML) are discussed.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITNW1308 - Implementing and Supporting Client Operating Systems

Course Title

Implementing and Supporting Client Operating Systems

Academic Level

Undergraduate

Description

The fundamentals of managing and configuring local, network, and distributed network clients. Topics may adapt to changes in industry practices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITNW1309 - Fundamentals of Cloud Computing

Course Title

Fundamentals of Cloud Computing

Academic Level

Undergraduate

Description

Introduction to Cloud computing from a business and technical perspective, including Cloud concepts, services, architecture, system integration, connectivity, data center migration, administration, security, compliance and technical support. Coverage includes preparation for industry certifications. Topics may adapt to changes in industry practices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW1313 - Computer Virtualization

Course Title

Computer Virtualization

Academic Level

Undergraduate

Description

Implement and support virtualization of clients of servers in a networked computing environment. This course explores installation, configuration, and management of computer virtualization workstation and servers.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITNW1325 - Fundamentals of Networking Technologies

Course Title

Fundamentals of Networking Technologies

Academic Level

Undergraduate

Description

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW1336 - Cloud Deployment & Infrastructure Management **Course Title**

Cloud Deployment & Infrastructure Management

Academic Level

Undergraduate

Description

Focus on Cloud infrastructure, deployment, security models, and key considerations in migrating to Cloud computing. Includes the technologies and processes required to build on-premise and Cloud environments, including computation, storage, networking, virtualization, business continuity, security, and management.

Additional Course Information

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITNW1345 - Implementing Network Directory Services **Course Title**

Implementing Network Directory Services

Academic Level

Undergraduate

Description

In-depth coverage of the skills necessary to install, configure, and administer Network Directory service.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW1354 - Implementing and Supporting Servers

Course Title

Implementing and Supporting Servers

Academic Level

Undergraduate

Description

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)
 - ITSY2300 - Operating System Security (3)
 - Complete at least 1 of the following:
 - ITNW1325 - Fundamentals of Networking Technologies (3)
 - ITNW1358 - Network+ (3)

2026-2027 Catalog & Student Handbook

ITNW1358 - Network+ Course Title

Network+

Academic Level

Undergraduate

Description

Assists individuals in preparing for the Computing Technology Industry Association (CompTIA) Network+ certification exam and career as a network professional.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW1380 - Coop-Bus Sys Nwk &tel

Course Title

Coop-Bus Sys Nwk &tel

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Are Offered Through a Cooperative Agreement Between the College, Employer, and Student. Under Supervision of The College and the Employer, the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience. This Course May Be Repeated If Topics and Learning Outcomes Vary.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW1391 - Special Topics in Information Sciences and Systems

Course Title

Special Topics in Information Sciences and Systems

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW1436 - Cloud Deployment & Infrastructure Management **Course Title**

Cloud Deployment & Infrastructure Management

Academic Level

Undergraduate

Description

Focus on Cloud infrastructure, deployment, security models, and key considerations in migrating to Cloud computing. Includes the technologies and processes required to build on-premise and Cloud environments, including computation, storage, networking, virtualization, business continuity, security, and management.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ITNW1680 - Coop-Bus Sys Net&tel

Course Title

Coop-Bus Sys Net&tel

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Are Offered Through a Cooperative Agreement Between the College, Employer, and Student. Under Supervision of The College and the Employer, the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience. This Course May Be Repeated If Topics and Learning Outcomes Vary.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

2026-2027 Catalog & Student Handbook

ITNW2312 - Routers

Course Title

Routers

Academic Level

Undergraduate

Description

Router configuration for local area networks and wide area networks. Includes Internet Protocol (IP) addressing techniques and intermediate routing protocols.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1325 - Fundamentals of Networking Technologies (3)
 - ITNW2321 - Networking with TCP/IP (3)

2026-2027 Catalog & Student Handbook

ITNW2321 - Networking with TCP/IP

Course Title

Networking with TCP/IP

Academic Level

Undergraduate

Description

Set up, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on networking operating systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1325 - Fundamentals of Networking Technologies (3)

2026-2027 Catalog & Student Handbook

ITNW2327 - Advanced Cloud Concepts

Course Title

Advanced Cloud Concepts

Academic Level

Undergraduate

Description

Focus on enterprise Cloud architecture, with advanced topics including multi-Cloud platforms inclusive of computing, networking, storage, monitoring and database.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1336 - Cloud Deployment & Infrastructure Management (3)

2026-2027 Catalog & Student Handbook

ITNW2329 - Application Development for The Cloud

Course Title

Application Development for The Cloud

Academic Level

Undergraduate

Description

A practical study of Cloud computing architecture and service. Includes designing and developing Cloud based applications, web services, micro services, and APIs; programming for the Cloud using API calls; and building and deploying server-side applications for the Cloud.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1336 - Cloud Deployment & Infrastructure Management (3)

2026-2027 Catalog & Student Handbook

ITNW2335 - Network Troubleshooting and Support

Course Title

Network Troubleshooting and Support

Academic Level

Undergraduate

Description

Troubleshoot and support networks with emphasis on solving real world problems in a hands-on environment. Topics include troubleshooting and research techniques, available resources, and network management hard/software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW2354 - Internet/Intranet Server (3)
 - ITCC2320 - CCNA 3: Enterprise Networking, Security , and Automation (3)

2026-2027 Catalog & Student Handbook

ITNW2350 - Enterprise Network

Course Title

Enterprise Network

Academic Level

Undergraduate

Description

A case study in Convergence Technologies requiring a network engineer to study a problem and design a network solution for an enterprise network.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSY2301 - Firewalls and Network Security (3)

2026-2027 Catalog & Student Handbook

ITNW2352 - Administering SQL Server

Course Title

Administering SQL Server

Academic Level

Undergraduate

Description

Administering SQL Server is a skills development course in the installation, configuration, administration, and troubleshooting of SQL Servers client/server database management system version.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW2354 - Internet/Intranet Server

Course Title

Internet/Intranet Server

Academic Level

Undergraduate

Description

Advanced concepts in the designing, installing, and administration of an Internet/Intranet server.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1345 - Implementing Network Directory Services (3)
 - ITSC1316 - Linux Installation and Configuration (3)

2026-2027 Catalog & Student Handbook

ITNW2355 - Server Virtualization

Course Title

Server Virtualization

Academic Level

Undergraduate

Description

An in-depth study of the installation, configuration, management and troubleshooting of a virtualized server environment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1354 - Implementing and Supporting Servers (3)
 - ITSC1325 - Personal Computer Hardware (3)

2026-2027 Catalog & Student Handbook

ITNW2356 - Designing a Network Directory Infrastructure

Course Title

Designing a Network Directory Infrastructure

Academic Level

Undergraduate

Description

Design, implement, and support a network directory infrastructure in a multi-domain environment. null null

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITNW2376 - Cloud Deployment & Infrastructure Management

Course Title

Cloud Deployment & Infrastructure Management

Academic Level

Undergraduate

Description

Deployment and management of scalable data centers, public and private cloud infrastructures, co-location strategies, energy consumption calculation, and disaster recovery planning using open source and commercial software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW2380 - Cooperative Education - Computer Systems Networking and Telecommunications **Course Title**

Cooperative Education - Computer Systems Networking and Telecommunications

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Students are required to complete a total of 320 hrs per semester, 1 hour online and 19 hours per week on-site. Agreement between Employer and Student required prior to enrolling in course.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITNW2427 - Advanced Cloud Concepts

Course Title

Advanced Cloud Concepts

Academic Level

Undergraduate

Description

Focus on enterprise Cloud architecture, with advanced topics including multi-Cloud platforms inclusive of computing, networking, storage, monitoring and database.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ITNW1436 - Cloud Deployment & Infrastructure Management (4)

2026-2027 Catalog & Student Handbook

ITNW2429 - Application Development for The Cloud

Course Title

Application Development for The Cloud

Academic Level

Undergraduate

Description

A practical study of Cloud computing architecture and service. Includes designing and developing Cloud based applications, web services, micro services, and APIs; programming for the Cloud using API calls; and building and deploying server-side applications for the Cloud.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ITNW1436 - Cloud Deployment & Infrastructure Management (4)

2026-2027 Catalog & Student Handbook

ITSE1001 - Web Design Tools

Course Title

Web Design Tools

Academic Level

Continuing Education

Description

Designing and publishing Web documents according to World Wide Web Consortium (W3C) standards. Includes graphic design issues and exploration of tools available for creating and editing Web documents.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ITSE1002 - Intro to Computer Programming

Course Title

Intro to Computer Programming

Academic Level

Continuing Education

Description

Introduction to computer programming with emphasis on the fundamentals of design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.

Lecture Hours

8

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

128

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSE1007 - Intro to C++ Programming

Course Title

Intro to C++ Programming

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ITSE1045 - Introduction to Oracle Sql

Course Title

Introduction to Oracle Sql

Academic Level

Continuing Education

Description

An introduction to the design and creation of relational databases using Oracle. Topics include storing, retrieving, updating, and displaying data using Structured Query Language (SQL).

Lecture Hours

8

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

128

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSE1091 - St in Computer Programming

Course Title

St in Computer Programming

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

7

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

112

Semester Credit Hours

0

ITSE1094 - Special Topics in Computer Science

Course Title

Special Topics in Computer Science

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSE1301 - Web Design Tools

Course Title

Web Design Tools

Academic Level

Undergraduate

Description

Designing and publishing Web documents according to World Wide Web Consortium (W3C) standards. Emphasis on optimization of graphics and images and exploration of tools available for creating and editing Web documents.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSE1302 - Computer Programming

Course Title

Computer Programming

Academic Level

Undergraduate

Description

Introduction to computer programming including design, development, testing, implementation, and documentation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE1303 - Introduction to MySQL

Course Title

Introduction to MySQL

Academic Level

Undergraduate

Description

Introduction to fundamentals of SQL and relational databases.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE1306 - PHP Programming

Course Title

PHP Programming

Academic Level

Undergraduate

Description

Introduction to PHP including the design of web-based applications, arrays, strings, regular expressions, file input/output, e-mail and database interfaces, stream and network programming, debugging, and security.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2302 - Intermediate Web Programming (3)

Corequisites

- Completed or concurrently enrolled in:
 - ITSE1303 - Introduction to MySQL (3)

2026-2027 Catalog & Student Handbook

ITSE1307 - Introduction to C++ Programming

Course Title

Introduction to C++ Programming

Academic Level

Undergraduate

Description

Introduction to computer programming using C++. Emphasis on the fundamentals of object-oriented design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSE1311 - Beginning Web Programming

Course Title

Beginning Web Programming

Academic Level

Undergraduate

Description

Skills development in web programming including mark-up and scripting languages.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE1329 - Programming Logic and Design

Course Title

Programming Logic and Design

Academic Level

Undergraduate

Description

Problem-solving applying structured techniques and representation of algorithms using design tools. Includes testing, evaluation, and documentation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE1330 - Introduction to C# Programming

Course Title

Introduction to C# Programming

Academic Level

Undergraduate

Description

A study of C# syntax including data types, control structures, functions, syntax, and semantics of the language, classes, class relationships, and exception handling.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1302 - Computer Programming (3)

2026-2027 Catalog & Student Handbook

ITSE1332 - Introduction to Visual Basic.NET Programming

Course Title

Introduction to Visual Basic.NET Programming

Academic Level

Undergraduate

Description

Introduction to Visual Basic.NET (VB.NET) including data types, control structures, functions, syntax, and semantics of the language, classes, class relationships, and exception handling.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE1333 - Mobile Applications Development

Course Title

Mobile Applications Development

Academic Level

Undergraduate

Description

An overview of different mobile platforms and their development environments.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1330 - Introduction to C# Programming (3)

2026-2027 Catalog & Student Handbook

ITSE1350 - System Analysis and Design

Course Title

System Analysis and Design

Academic Level

Undergraduate

Description

Introduction to the planning, design, and construction of computer information systems using the systems development life cycle and other appropriate design tools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSE1359 - Introduction to Scripting Languages

Course Title

Introduction to Scripting Languages

Academic Level

Undergraduate

Description

Introduction to scripting languages including basic data types, control structures, regular expressions, input/output, and textual analysis. Topics may adapt to changes in industry practices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSE1373 - Introduction to Python

Course Title

Introduction to Python

Academic Level

Undergraduate

Description

This course will introduce Python Programming

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - ITSE1302 - Computer Programming (3)
 - ITSE1311 - Beginning Web Programming (3)

2026-2027 Catalog & Student Handbook

ITSE1391 - Graphics Systems Development

Course Title

Graphics Systems Development

Academic Level

Undergraduate

Description

Topics address the development of client websites in a group format. Includes site design and development from conception to production.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

ITSE1392 - Special Topics in Computer Programming

Course Title

Special Topics in Computer Programming

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE1394 - Special Topics in Computer Science

Course Title

Special Topics in Computer Science

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Course focus will be on current and emerging web technologies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITSE2031 - Advanced C++programming

Course Title

Advanced C++programming

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ITSE2054 - Advanced Oracle PL/Sql

Course Title

Advanced Oracle PL/Sql

Academic Level

Continuing Education

Description

A continuation of Oracle SQL. Topics include hierarchical queries, set based queries, correlated subqueries, scripting, and scripting generation.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

ITSE2302 - Intermediate Web Programming

Course Title

Intermediate Web Programming

Academic Level

Undergraduate

Description

Server-side and client-side techniques for Web development.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1311 - Beginning Web Programming (3)

2026-2027 Catalog & Student Handbook

ITSE2309 - Database Programming **Course Title**

Database Programming

Academic Level

Undergraduate

Description

Database development using database programming techniques emphasizing database structures, modeling, and database access.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE2313 - Web Authoring **Course Title**

Web Authoring

Academic Level

Undergraduate

Description

Instruction in designing and developing web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - IMED1316 - Web Design I (3)

2026-2027 Catalog & Student Handbook

ITSE2317 - Java Programming **Course Title**

Java Programming

Academic Level

Undergraduate

Description

Introduction to object-oriented Java programming including the fundamental syntax and semantics of Java for applications and web applets.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1302 - Computer Programming (3)

2026-2027 Catalog & Student Handbook

ITSE2331 - Advanced C++ Programming

Course Title

Advanced C++ Programming

Academic Level

Undergraduate

Description

Further application of C++ programming techniques including file access, abstract data structures, class inheritance, and other advanced techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITSE2333 - Implementing a Database on Microsoft SQL Server

Course Title

Implementing a Database on Microsoft SQL Server

Academic Level

Undergraduate

Description

Skills development in the implementation of a database solution using Microsoft SQL Server client/server database management system.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2309 - Database Programming (3)

2026-2027 Catalog & Student Handbook

ITSE2343 - Advanced Mobile Programming

Course Title

Advanced Mobile Programming

Academic Level

Undergraduate

Description

Programming for mobile devices including file access methods, data structures, modular programming, program testing and documentation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1333 - Mobile Applications Development (3)

2026-2027 Catalog & Student Handbook

ITSE2353 - Advanced C# Programming

Course Title

Advanced C# Programming

Academic Level

Undergraduate

Description

Continuation of C# programming using advanced features of the .NET Framework Class Library.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1330 - Introduction to C# Programming (3)

2026-2027 Catalog & Student Handbook

ITSE2359 - Advanced Computer Programming

Course Title

Advanced Computer Programming

Academic Level

Undergraduate

Description

Advanced programming techniques including file access methods, data structures, modular programming, program testing and documentation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
 - Complete at least 1 of the following:
 - ITSE2353 - Advanced C# Programming (3)
 - ITSE2373 - Advanced Python (3)

2026-2027 Catalog & Student Handbook

ITSE2373 - Advanced Python

Course Title

Advanced Python

Academic Level

Undergraduate

Description

This course will introduce advanced concepts of Python programming. Students will use python in conjunction with a cloud based database system to build programs for the cloud.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1373 - Introduction to Python (3)

2026-2027 Catalog & Student Handbook

ITSE2380 - Cooperative Education - Computer Programming/Programmer, General Course Title

Cooperative Education - Computer Programming/Programmer, General

Academic Level

Undergraduate

Description

Career Related Activities Encountered in the Student's Area of Specialization Are Offered Through a Cooperative Agreement Between the College, the Employer, and Student. Under Supervision Of the College and the Employer, the Student Combines Classroom Learning With Work Experience. Directly Related to a Technical Discipline, Specific Learning Objectives Guide the Student Through the Paid Work Experience. This Course May Be Repeated If Topics and Learning Outcomes Vary.

We have moved to the internship course in place of the COOP for CPT. ITSE 2386.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
 - Complete at least 1 of the following:
 - ITSE2353 - Advanced C# Programming (3)
 - ITSE2373 - Advanced Python (3)

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ITSE2386 - Internship - Computer Programming/Programmer, General **Course Title**

Internship - Computer Programming/Programmer, General

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 144 hours total in the semester. It is recommended that a student completes 9 contact hours a week in the semester. The position and company must be pre-approved before a student signs up for the internship class. Employer reviews and hour logs are required.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
 - Complete at least 1 of the following:
 - ITSE2353 - Advanced C# Programming (3)
 - ITSE2373 - Advanced Python (3)
 - INEW2338 - Advanced Java Programming (3)

Emergency Medical Technology

2026-2027 Catalog & Student Handbook

EMSP1008 - Emergency Vehicle Operations

Course Title

Emergency Vehicle Operations

Academic Level

Continuing Education

Description

Instruction, demonstration, and driving range practice to prepare drivers of emergency vehicles to operate their vehicles safely in the emergency and non-emergency mode.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

EMSP1019 - Cpr Basic Life Support

Course Title

Cpr Basic Life Support

Academic Level

Continuing Education

Description

Instruction in lifesaving skills of respiratory (choking and near-drowning) and cardiac emergencies involving adults, children, and infants. Must meet requirements of certifying agency. Additional topics covered will include basic first aid certification training.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EMSP1020 - Cpr Basic Life Support - Adult **Course Title**

Cpr Basic Life Support - Adult

Academic Level

Continuing Education

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

10

Semester Credit Hours

0

EMSP1043 - Emergency Med Intermediate **Course Title**

Emergency Med Intermediate

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

36

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EMSP1049 - Pre Hospital Life Support **Course Title**

Pre Hospital Life Support

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

EMSP1067 - EMT Practicum Paramedic Part1 **Course Title**

EMT Practicum Paramedic Part1

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

7

Total Contact Hours

112

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EMSP1068 - EMS Practicum Paramedic-II

Course Title

EMS Practicum Paramedic-II

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

7

Total Contact Hours

112

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Course Title

Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete a total of 128 clinical hours in the semester. It is recommended that student completes 8 contact hours per week for 15 weeks.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

8

Total Contact Hours

128

Credits

2

Semester Credit Hours

2

Corequisites

- Complete the following:
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP2237 - Emergency Procedures (2)

2026-2027 Catalog & Student Handbook

EMSP1355 - Trauma Management

Course Title

Trauma Management

Academic Level

Undergraduate

Description

Knowledge and skills in the assessment and management of patients with traumatic injuries.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP2237 - Emergency Procedures (2)

Corequisites

- Complete the following:
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)

2026-2027 Catalog & Student Handbook

EMSP1356 - Patient Assessment and Airway Management

Course Title

Patient Assessment and Airway Management

Academic Level

Undergraduate

Description

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP2237 - Emergency Procedures (2)

Corequisites

- Complete the following:
 - EMSP1355 - Trauma Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)

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EMSP1438 - Introduction to Advanced Practice

Course Title

Introduction to Advanced Practice

Academic Level

Undergraduate

Description

Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - EMSP1501 - Emergency Medical Technician (5)
 - EMSP2237 - Emergency Procedures (2)
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)

Corequisites

- Complete the following:
 - EMSP1355 - Trauma Management (3)
 - EMSP1356 - Patient Assessment and Airway Management (3)

2026-2027 Catalog & Student Handbook

EMSP1501 - Emergency Medical Technician

Course Title

Emergency Medical Technician

Academic Level

Undergraduate

Description

Preparation for certification as an Emergency Medical Technician (EMT).

Lecture Hours

3

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

176

Credits

5

Semester Credit Hours

5

Corequisites

- Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP2237 - Emergency Procedures (2)

EMSP2000 - Methods of Teaching- Emergency Med Train

Course Title

Methods of Teaching- Emergency Med Train

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EMSP2037 - Emergency Procedures

Course Title

Emergency Procedures

Academic Level

Continuing Education

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

60

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EMSP2143 - Assessment Based Management

Course Title

Assessment Based Management

Academic Level

Undergraduate

Description

A summarative experience covering comprehensive, assessment-based patient care management for the paramedic level.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - EMSP2444 - Cardiology (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2434 - Medical Emergencies (4)

Corequisites

- Complete the following:
 - EMSP2205 - EMS Operations (2)
 - EMSP2206 - Emergency Pharmacology (2)

2026-2027 Catalog & Student Handbook

EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Course Title

Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete a total of 96 clinical hours in the semester. It is recommended that student completes 6 contact hours per week for 15 weeks.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - EMSP1438 - Introduction to Advanced Practice (4)
 - EMSP1355 - Trauma Management (3)
 - EMSP1356 - Patient Assessment and Airway Management (3)

Corequisites

- Complete the following:
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2444 - Cardiology (4)

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EMSP2162 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Course Title

Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

5

Total Contact Hours

80

Credits

1

Semester Credit Hours

1

EMSP2163 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Course Title

Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

1

Semester Credit Hours

1

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EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) **Course Title**

Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

Students are required to complete a total of 112 clinical hours in the semester. It is recommended that student completes 7 contact hours per week for 15 weeks.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

7

Total Contact Hours

112

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)
 - EMSP1355 - Trauma Management (3)

Corequisites

- Complete the following:
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2444 - Cardiology (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)

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EMSP2168 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) **Course Title**

Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

Students are required to complete 112 total contact hours in the semester. It is recommended that a student completes 7 contact hours per week for the 15-week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

7

Total Contact Hours

112

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)

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EMSP2169 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) **Course Title**

Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

Students are required to complete 112 hours total in the semester. It is recommended that a student completes 7 hours a week for the 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

7

Total Contact Hours

112

Credits

1

Semester Credit Hours

1

Prerequisites

- Complete the following:
 - EMSP2168 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2262 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)

2026-2027 Catalog & Student Handbook

EMSP2205 - EMS Operations

Course Title

EMS Operations

Academic Level

Undergraduate

Description

Knowledge and skills to safely manage incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - EMSP2444 - Cardiology (4)
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2330 - Special Populations (3)

Corequisites

- Complete the following:
 - EMSP2143 - Assessment Based Management (1)
 - EMSP2206 - Emergency Pharmacology (2)

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EMSP2206 - Emergency Pharmacology

Course Title

Emergency Pharmacology

Academic Level

Undergraduate

Description

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages.

Lecture Hours

2

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - EMSP2444 - Cardiology (4)
 - EMSP2330 - Special Populations (3)
 - EMSP2434 - Medical Emergencies (4)

Corequisites

- Complete the following:
 - EMSP2143 - Assessment Based Management (1)
 - EMSP2205 - EMS Operations (2)

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EMSP2237 - Emergency Procedures

Course Title

Emergency Procedures

Academic Level

Undergraduate

Description

Application of emergency medical procedures.

Lecture Hours

0

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

2

Semester Credit Hours

2

Corequisites

- Complete the following:
 - EMSP1261 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (2)
 - EMSP1501 - Emergency Medical Technician (5)

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EMSP2262 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Course Title

Clinical - Emergency Medical Technology/Technician (EMT Paramedic)

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete 96 hours total in the semester. It is recommended that a student completes 6 contact hours per week for the 15-week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)

2026-2027 Catalog & Student Handbook

EMSP2330 - Special Populations

Course Title

Special Populations

Academic Level

Undergraduate

Description

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, pediatrics, geriatrics, and other related topics.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1355 - Trauma Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)

Corequisites

- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2444 - Cardiology (4)

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EMSP2434 - Medical Emergencies

Course Title

Medical Emergencies

Academic Level

Undergraduate

Description

Knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1355 - Trauma Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)

Corequisites

- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2330 - Special Populations (3)
 - EMSP2444 - Cardiology (4)

2026-2027 Catalog & Student Handbook

EMSP2444 - Cardiology

Course Title

Cardiology

Academic Level

Undergraduate

Description

Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - EMSP1356 - Patient Assessment and Airway Management (3)
 - EMSP1355 - Trauma Management (3)
 - EMSP1438 - Introduction to Advanced Practice (4)

Corequisites

- Complete the following:
 - EMSP2161 - Clinical - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)
 - EMSP2434 - Medical Emergencies (4)
 - EMSP2330 - Special Populations (3)

Energy

2026-2027 Catalog & Student Handbook

ENER1050 - Overview of Energy Industry

Course Title

Overview of Energy Industry

Academic Level

Continuing Education

Description

Introduction to the major sectors of the energy industry. Includes a comparison of energy industry careers.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

ENER1430 - Basic Mechanical Skills for Energy

Course Title

Basic Mechanical Skills for Energy

Academic Level

Undergraduate

Description

Basic mechanical skills using hand and power tools in an industrial environment. Topics include tool use and maintenance, lubrication, measuring, threads and fasteners, bench works, basic mechanical drawings, and basic shop calculations (English and metric). Also addresses rigging procedures to include chain falls, jacks, cable, fulcrum, port-a-power, and come-alongs.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ENER2325 - SCADA and Networking

Course Title

SCADA and Networking

Academic Level

Undergraduate

Description

Topics in Supervisory Control and Data Acquisition (SCADA) systems, Industrial Ethernet communications systems as they apply to industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1325 - Digital Fundamentals (3)

Engineering

ENTC1091 - Top Search Engine

Course Title

Top Search Engine

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

ENTC1349 - Reliability and Maintainability

Course Title

Reliability and Maintainability

Academic Level

Undergraduate

Description

Equipment reliability and maintainability. Includes development and assessment of maintenance programs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ENTC1371 - Engineering Computer Graphics I

Course Title

Engineering Computer Graphics I

Academic Level

Undergraduate

Description

This course covers the fundamental concepts associated with engineering computer aided design graphics; CAD. Emphasis will be placed on both dimensional analysis and design for manufacturing ability of 3D models. Solid Edge Modeling Software will be utilized.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ENTC2310 - Machine Design

Course Title

Machine Design

Academic Level

Undergraduate

Description

Design considerations for machinery. Includes selection of mechanical components and machine construction principles.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)
 - Completed or concurrently enrolled in at least of the following:
 - MCHN2341 - Advanced Machining I (3)
 - MCHN2441 - Advanced Machining I (4)

English

2026-2027 Catalog & Student Handbook

ENGL1301 - Composition I

Course Title

Composition I

Academic Level

Undergraduate

Description

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- ELAR Complete/Exempt or concurrent enrollment in NCBI 0301

2026-2027 Catalog & Student Handbook

ENGL1302 - Composition II

Course Title

Composition II

Academic Level

Undergraduate

Description

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ENGL1301 - Composition I (3)

2026-2027 Catalog & Student Handbook

ENGL2311 - Technical & Business Writing

Course Title

Technical & Business Writing

Academic Level

Undergraduate

Description

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ENGL2314 - Technical & Business Writing I

Course Title

Technical & Business Writing I

Academic Level

Undergraduate

Description

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ENGL2321 - British Literature

Course Title

British Literature

Academic Level

Undergraduate

Description

A survey of the development of British literature from the Anglo-Saxon period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ENGL1301 - Composition I (3)

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ENGL2322 - British Literature I

Course Title

British Literature I

Academic Level

Undergraduate

Description

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ENGL2323 - British Literature II

Course Title

British Literature II

Academic Level

Undergraduate

Description

A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ENGL2326 - American Literature (single-Semester Course)

Course Title

American Literature (single-Semester Course)

Academic Level

Undergraduate

Description

A survey of American literature from the period of exploration and settlement to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ENGL1301 - Composition I (3)

2026-2027 Catalog & Student Handbook

ENGL2331 - World Literature

Course Title

World Literature

Academic Level

Undergraduate

Description

A survey of world literature from the ancient world to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ENGL1301 - Composition I (3)

2026-2027 Catalog & Student Handbook

ENGL2341 - Forms of Literature

Course Title

Forms of Literature

Academic Level

Undergraduate

Description

The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Environmental & Pollution Control

EPCT1001 - Hazwoper

Course Title

Hazwoper

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EPCT1022 - OnlineHazardousCommunication

Course Title

OnlineHazardousCommunication

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

1

Total Contact Hours

12

Semester Credit Hours

0

EPCT1053 - Hazardous Materials Technician

Course Title

Hazardous Materials Technician

Academic Level

Continuing Education

Description

Technical instruction in the storage and handling of hazardous materials; Occupational Safety and Health Administration (OSHA) regulations; notification procedures associated with emergency response plans; labeling; manifesting; placarding; spill containment; and proper use of personal protective equipment and instrumentation. Meets federal regulations.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EPCT1054 - Asbestos Worker

Course Title

Asbestos Worker

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

EPCT1056 - Asbestos Worker Refresher

Course Title

Asbestos Worker Refresher

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EPCT1057 - Asbestos Contractor & Supervisor

Course Title

Asbestos Contractor & Supervisor

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

EPCT1059 - Hazwoper Refresher - Osha 29CFR-1910.120

Course Title

Hazwoper Refresher - Osha 29CFR-1910.120

Academic Level

Continuing Education

Description

A refresher course covering the requirements for Hazardous Waste Operations and Emergency Response as found in OSHA 29CFR-1910.120.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EPCT1091 - Mms T-2 Training

Course Title

Mms T-2 Training

Academic Level

Continuing Education

Lecture Hours

7

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

112

Semester Credit Hours

0

EPCT1205 - Environmental Regulations Overview

Course Title

Environmental Regulations Overview

Academic Level

Undergraduate

Description

An introduction to the history of the environmental movement, including basic requirements for compliance with the environmental regulations.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

EPCT1243 - Treatment, Remediation, and Disposal Techniques

Course Title

Treatment, Remediation, and Disposal Techniques

Academic Level

Undergraduate

Description

A study of the skills required in treatment, remediation, and disposal processes of solid waste, hazardous materials, and hazardous waste. Emphasizes the technologies applicable in the field.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

EPCT1301 - Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics

Course Title

Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics

Academic Level

Undergraduate

Description

Minimum certification requirements in the Code of Federal Regulations (CFR) for a hazardous waste site worker as found in 29 CFR-1910.120 and 40 CFR-264.16.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EPCT1307 - Introduction to Environmental Safety and Health **Course Title**

Introduction to Environmental Safety and Health

Academic Level

Undergraduate

Description

A historic overview of environmental safety and health. Emphasis on the use of occupational safety and health codes.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

EPCT1344 - Environmental Sampling and Analysis **Course Title**

Environmental Sampling and Analysis

Academic Level

Undergraduate

Description

Sampling protocol, procedures, quality control, preservation technology, and field analysis. Emphasis on analysis commonly performed by the field technician.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EPCT2015 - Water Laboratory **Course Title**

Water Laboratory

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

EPCT2050 - Wastewater Treatment **Course Title**

Wastewater Treatment

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EPCT2055 - Water Rules and Regulations

Course Title

Water Rules and Regulations

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

EPCT2331 - Industrial Hygiene Applications

Course Title

Industrial Hygiene Applications

Academic Level

Undergraduate

Description

A study of the industrial environment and its relation to worker's health. This course provides training in anticipation, recognition, evaluation, and controlling health hazards-- particularly chemical, physical, biological, and ergonomic factors existing in the workplace and having injurious effects on workers. The course also introduces training in instrumentation used in monitoring and measuring health hazards in the workplace and covers current issues in industrial hygiene.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EPCT2337 - Site Assessment

Course Title

Site Assessment

Academic Level

Undergraduate

Description

Research techniques required to perform site assessment. Emphasis on the American Society of Testing Materials (ASTM) and Comprehensive Environmental Response Compensation Liability Act (CERCLA) Super Fund Standards.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Environmental Health

2026-2027 Catalog & Student Handbook

PTAC1302 - Introduction to Process Technology

Course Title

Introduction to Process Technology

Academic Level

Undergraduate

Description

An introduction overview of the processing industries.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PTAC1308 - Safety, Health, and Environment I

Course Title

Safety, Health, and Environment I

Academic Level

Undergraduate

Description

An overview of safety, health, and environmental issues in the performance of all job tasks in process industries.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PTAC1310 - Process Technology I - Equipment

Course Title

Process Technology I - Equipment

Academic Level

Undergraduate

Description

Introduction to the use of common processing equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PTAC1332 - Process Instrumentation I

Course Title

Process Instrumentation I

Academic Level

Undergraduate

Description

Study of the instruments and control systems used in the process industry including terminology, process variables, symbology, control loops, and basic troubleshooting.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PTAC1410 - Process Technology I - Equipment (4)

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PTAC1410 - Process Technology I - Equipment

Course Title

Process Technology I - Equipment

Academic Level

Undergraduate

Description

Introduction to the use of common processing equipment

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Completed or concurrently enrolled in:

2026-2027 Catalog & Student Handbook

PTAC1454 - Industrial Processes

Course Title

Industrial Processes

Academic Level

Undergraduate

Description

The study of the common types of industrial processes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - PTAC1302 - Introduction to Process Technology (3)

2026-2027 Catalog & Student Handbook

PTAC2314 - Principles of Quality

Course Title

Principles of Quality

Academic Level

Undergraduate

Description

Study of the background and application of quality concepts. Topics include team skills, quality tools, statistics, economics and continuous improvement.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PTAC1302 - Introduction to Process Technology (3)

2026-2027 Catalog & Student Handbook

PTAC2336 - Process Instrumentation II

Course Title

Process Instrumentation II

Academic Level

Undergraduate

Description

Continued study of the instruments and control systems used in the process industries including terminology, process variables, symbology, control loops, and troubleshooting.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PTAC2346 - Process Troubleshooting

Course Title

Process Troubleshooting

Academic Level

Undergraduate

Description

Instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PTAC2386 - Internship - Process Technology/Technician **Course Title**

Internship - Process Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

18

Total Contact Hours

288

Credits

3

Semester Credit Hours

3

PTAC2387 - Internship - Process Technology/Technician **Course Title**

Internship - Process Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

18

Total Contact Hours

288

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PTAC2420 - Process Technology II - Systems

Course Title

Process Technology II - Systems

Academic Level

Undergraduate

Description

A study of various process systems including related scientific principles.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - PTAC1410 - Process Technology I - Equipment (4)

2026-2027 Catalog & Student Handbook

PTAC2438 - Process Technology III - Operations

Course Title

Process Technology III - Operations

Academic Level

Undergraduate

Description

This course emphasizes activities associated with the hands-on operations of process equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - PTAC1332 - Process Instrumentation I (3)
 - PTAC2446 - Process Troubleshooting (4)
 - PTAC2420 - Process Technology II - Systems (4)

2026-2027 Catalog & Student Handbook

PTAC2446 - Process Troubleshooting

Course Title

Process Troubleshooting

Academic Level

Undergraduate

Description

Instruction in the different types of troubleshooting techniques, procedures, and methods used to solve process problems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete all of the following
 - Complete the following:
 - PTAC1332 - Process Instrumentation I (3)
 - Completed or concurrently enrolled in:
 - PTAC2420 - Process Technology II - Systems (4)

Food & Beverage/Restaurant Management

2026-2027 Catalog & Student Handbook

RSTO1301 - Beverage Management

Course Title

Beverage Management

Academic Level

Undergraduate

Description

A study of the beverage service of the hospitality industry including spirits, wines, beers, and non alcoholic beverages. Topics include purchasing, resource control, legislation, marketing, physical plant requirements, staffing, service, and the selection of wines to enhance foods.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RSTO1304 - Dining Room Service

Course Title

Dining Room Service

Academic Level

Undergraduate

Description

Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel.

Lecture Hours

1

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - CHEF1205 - Sanitation and Safety (2)
 - CHEF1305 - Sanitation and Safety (3)
 - Complete the following:
 - IFWA1401 - Food Preparation I (4)

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RSTO1313 - Hospitality Supervision

Course Title

Hospitality Supervision

Academic Level

Undergraduate

Description

Fundamentals of recruiting, selection, and training of food service and hospitality personnel. Topics include job descriptions, schedules, work improvement, motivation, applicable personnel laws and regulations. Emphasis on leadership development.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RSTO1325 - Purchasing for Hospitality Operations

Course Title

Purchasing for Hospitality Operations

Academic Level

Undergraduate

Description

Study of purchasing and inventory management of foods and other supplies to include development of purchase specifications, determination of order quantities, formal and informal price comparisons, proper receiving procedures, storage management, and issue procedures. Emphasis on product cost analysis, yields, pricing formulas, controls, and record keeping at each stage of the purchasing cycle.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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RSTO1380 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager **Course Title**

Cooperative Education - Restaurant, Culinary, and Catering Management/Manager

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 320hours total (16 lecture/304 coop) in the semester. It is recommended that a student completes 19 coop hours and 1 lecture hour a week for the 15 week semester.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

19

Total Contact Hours

320

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - CHEF1205 - Sanitation and Safety (2)
 - CHEF1305 - Sanitation and Safety (3)
 - Complete the following:
 - IFWA1401 - Food Preparation I (4)

2026-2027 Catalog & Student Handbook

RSTO1680 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager **Course Title**

Cooperative Education - Restaurant, Culinary, and Catering Management/Manager

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 640 hours total (16 lecture/624 coop) in the semester. It is recommended that a student completes 39 coop hours and 1 lecture hour a week for the 15 week semester.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

Prerequisites

- Complete all of the following
 - Complete 1 of the following
 - Complete the following:
 - CHEF1441 - American Regional Cuisine (4)
 - CHEF1445 - International Cuisine (4)
 - Complete the following:
 - IFWA2341 - Specialized Food Preparation (3)
 - Complete the following:
 - IFWA1217 - Food Production and Planning (2)
 - RSTO1313 - Hospitality Supervision (3)

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RSTO2301 - Principles of Food & Beverage Controls

Course Title

Principles of Food & Beverage Controls

Academic Level

Undergraduate

Description

A study of financial principles and controls of food service operation including review of operation policies and procedures. Topics include financial budgeting and cost analysis emphasizing food and beverage labor costs, operational analysis, and international and regulatory reporting procedures.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

RSTO2407 - Catering

Course Title

Catering

Academic Level

Undergraduate

Description

Principles, techniques, and applications for both on-premises, off-premises, and group marketing of catering operations including food preparation, holding, and transporting techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

RSTO2505 - Management of Food Production and Service **Course Title**

Management of Food Production and Service

Academic Level

Undergraduate

Description

A study of quantity cookery and management problems pertaining to commercial and institutional food service, merchandising and variety in menu planning, and customer food preferences. Includes laboratory experiences in quantity food preparation and service.

Lecture Hours

2

Lab Hours

9

Ext. Con. Hrs

0

Total Contact Hours

176

Credits

5

Semester Credit Hours

5

Prerequisites

- Complete all of the following
 - Complete 1 of the following
 - Complete the following:
 - CHEF1441 - American Regional Cuisine (4)
 - CHEF1445 - International Cuisine (4)
 - Complete the following:
 - IFWA2341 - Specialized Food Preparation (3)
 - Complete the following:
 - IFWA1217 - Food Production and Planning (2)
 - RSTO1313 - Hospitality Supervision (3)

Geography

2026-2027 Catalog & Student Handbook

GEOG1302 - Human Geography

Course Title

Human Geography

Academic Level

Undergraduate

Description

This course introduces students to fundamental concepts, skills, and practices of human geography. Place, space, and scale serve as a framework for understanding patterns of human experience. Topics for discussion may include globalization, population and migration, culture, diffusion, political and economic systems, language, religion, gender, and ethnicity.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

GEOG1303 - World Regional Geography

Course Title

World Regional Geography

Academic Level

Undergraduate

Description

This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Geology

2026-2027 Catalog & Student Handbook

GEOL1403 - Physical Geology

Course Title

Physical Geology

Academic Level

Undergraduate

Description

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Laboratory activities will cover methods used to collect and analyze earth science data.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Government

2026-2027 Catalog & Student Handbook

GOVT2305 - Federal Government (Federal constitution & topics)

Course Title

Federal Government (Federal constitution & topics)

Academic Level

Undergraduate

Description

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- PR: TSI Complete ELAR or (Reading + Writing)

2026-2027 Catalog & Student Handbook

GOVT2306 - Texas Government (Texas constitution & topics)

Course Title

Texas Government (Texas constitution & topics)

Academic Level

Undergraduate

Description

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Graphic Design, Comm Art & III

2026-2027 Catalog & Student Handbook

ARTC1302 - Digital Imaging I

Course Title

Digital Imaging I

Academic Level

Undergraduate

Description

Digital imaging using raster image editing and/or image creation software: scanning, resolution, file formats, output devices, color systems, and image-acquisitions.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ARTC1305 - Basic Graphic Design

Course Title

Basic Graphic Design

Academic Level

Undergraduate

Description

Graphic design with emphasis on the visual communication process. Topics include basic terminology and graphic design principles.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ARTC1310 - Design Concepts

Course Title

Design Concepts

Academic Level

Undergraduate

Description

Fundamental techniques in conceptualizing. Includes all procedures from initial research to creating strategies to finalize a solution.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - GRPH1359 - Vector Graphics for Production (3)

Corequisites

- Completed or concurrently enrolled in:
 - ARTC2313 - Digital Publishing II (3)

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ARTC1313 - Digital Publishing I

Course Title

Digital Publishing I

Academic Level

Undergraduate

Description

The fundamentals of using digital layout as a primary publishing tool and the basic concepts and terminology associated with typography and page layout.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1302 - Digital Imaging I (3)

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ARTC1317 - Design Communication I

Course Title

Design Communication I

Academic Level

Undergraduate

Description

Study of design development relating to graphic design terminology, tools and media, and layout and design concepts. Topics include integration of type, images and other design elements, and developing computer skills in industry standard computer programs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ARTC1327 - Typography

Course Title

Typography

Academic Level

Undergraduate

Description

A study of letterforms and typographic concepts as elements of graphic communication. Emphasis on developing a current, practical typographic knowledge based on industry standards.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ARTC1349 - Art Direction I

Course Title

Art Direction I

Academic Level

Undergraduate

Description

Creation of projects in art direction for advertising graphic campaigns for products, services, or ideas. Topics include all campaign procedures from initial research and creative strategy to final execution and presentation of a comprehensive project.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1327 - Typography (3)
 - GRPH1359 - Vector Graphics for Production (3)

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ARTC1353 - Computer Illustration

Course Title

Computer Illustration

Academic Level

Undergraduate

Description

Use of the tools and transformation options of an industry-standard vector drawing program to create complex illustrations or drawings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ARTC1359 - Visual Design for New Media

Course Title

Visual Design for New Media

Academic Level

Undergraduate

Description

Visual design elements as they relate to new media. Emphasizes aesthetics and visual problem solving such as typographic issues, color management, hierarchy of information, image optimization, and effective layout.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1349 - Art Direction I (3)

Corequisites

- Completed or concurrently enrolled in:
 - ARTC2313 - Digital Publishing II (3)

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ARTC2005 - Digital Imaging II

Course Title

Digital Imaging II

Academic Level

Continuing Education

Description

Principles of digital image processing and digital painting. Emphasis on raster-based imaging and the creative aspects of electronic illustration for commercial or fine art applications.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

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ARTC2305 - Digital Imaging II

Course Title

Digital Imaging II

Academic Level

Undergraduate

Description

Principles of digital image processing and digital painting. Emphasis on raster-based imaging and the creative aspects of electronic illustration for commercial or fine art applications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1302 - Digital Imaging I (3)

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ARTC2313 - Digital Publishing II

Course Title

Digital Publishing II

Academic Level

Undergraduate

Description

Includes layout procedures from thumbnails and roughs to final comprehensive and print output. Emphasis on design principles for the creation of advertising and publishing materials, and techniques for efficient planning and documenting projects.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1313 - Digital Publishing I (3)

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ARTC2317 - Typographic Design

Course Title

Typographic Design

Academic Level

Undergraduate

Description

Exploration of typographic design including computer generated letterforms as elements of design. Includes theory and techniques of traditional, contemporary, and experimental typography.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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ARTC2333 - Publication Design

Course Title

Publication Design

Academic Level

Undergraduate

Description

Development of skills and advanced knowledge of publishing software, with emphasis on the maintenance of visual continuity in documents for publication.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1359 - Visual Design for New Media (3)

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ARTC2335 - Portfolio Development for Graphic Design

Course Title

Portfolio Development for Graphic Design

Academic Level

Undergraduate

Description

Preparation of a portfolio comprised of completed graphic design projects. Evaluation and demonstration of portfolio presentation methods based on the student's specific area of study.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ARTC2340 - Computer Illustration II

Course Title

Computer Illustration II

Academic Level

Undergraduate

Description

Advanced use of software applications and/or various media with emphasis on output procedures, the resolution of complex design issues, and concept development.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ARTC2347 - Design Communication II

Course Title

Design Communication II

Academic Level

Undergraduate

Description

An advanced study of the design process and art direction. Emphasis on form and content through the selection, creation, and integration of typographic, photographic, illustrative, and design elements.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1317 - Design Communication I (3)

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ARTC2348 - Digital Publishing III

Course Title

Digital Publishing III

Academic Level

Undergraduate

Description

A project based page layout course from concept to completion addressing design problems, preflight of files, color separations, and trapping techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC2313 - Digital Publishing II (3)

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ARTC2349 - Art Direction II

Course Title

Art Direction II

Academic Level

Undergraduate

Description

Mastery of advanced art direction projects with emphasis on selected topics in advertising campaigns. Includes written, oral, and visual skills.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1349 - Art Direction I (3)
 - ARTC2313 - Digital Publishing II (3)

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ARTC2388 - Internship - Commercial and Advertising Art **Course Title**

Internship - Commercial and Advertising Art

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

ARTC2449 - Art Direction II **Course Title**

Art Direction II

Academic Level

Undergraduate

Description

Mastery of advanced art direction projects with emphasis on selected topics in advertising campaigns. Includes written, oral, and visual skills.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Graphics Wecm

GRPH1002 - Introduction to Desktop Publishing **Course Title**

Introduction to Desktop Publishing

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

GRPH1359 - Vector Graphics for Production **Course Title**

Vector Graphics for Production

Academic Level

Undergraduate

Description

A study and use of vector graphics for production.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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GRPH2309 - Digital Pre-Press

Course Title

Digital Pre-Press

Academic Level

Undergraduate

Description

Theory and techniques for pre-press preparation using industry standard software for final file output. Topics include the procedures and problems involved in computer file preparation ranging from trapping, color separations, and resolutions to printing basics and service bureaus.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Health Info

MDCA1054 - Medical Assisting Credentialing Exam Re

Course Title

Medical Assisting Credentialing Exam Re

Academic Level

Continuing Education

Description

A preparation for one of the National Commission for Certifying Agencies (NCCA) recognized Credentialing exams.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

30

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MDCA1302 - Human Disease/Pathophysiology

Course Title

Human Disease/Pathophysiology

Academic Level

Undergraduate

Description

A study of anatomy and physiology with emphasis on human pathophysiology, including etiology, prognosis, medical treatment, signs and symptoms of common diseases of all body systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

MDCA1313 - Medical Terminology

Course Title

Medical Terminology

Academic Level

Undergraduate

Description

A study and practical application of a medical vocabulary system. Includes structure, recognition, analysis, definition, spelling, pronunciation, and combination of medical terms from prefixes, suffixes, roots, and combining forms.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Health Information

HITT1005 - Medical Terminology I **Course Title**

Medical Terminology I

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

HITT1009 - Hipaa Compliance **Course Title**

Hipaa Compliance

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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HITT1041 - Coding and Classification Syst

Course Title

Coding and Classification Syst

Academic Level

Continuing Education

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

HITT1204 - IT for Health Professions

Course Title

IT for Health Professions

Academic Level

Undergraduate

Description

For students without an IT background, provides a basic overview of computer architecture, data organization, representation and structure, structure of programming, networking, and data communication. Includes basic terminology of computing.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

HITT1253 - Legal and Ethical Aspects of Health Information

Course Title

Legal and Ethical Aspects of Health Information

Academic Level

Undergraduate

Description

Concepts of privacy, security, confidentiality, ethics, healthcare legislation, and regulations relating to the maintenance and use of health information.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

HITT1255 - Health Care Statistics

Course Title

Health Care Statistics

Academic Level

Undergraduate

Description

Principles of health care statistics with emphasis in hospital statistics. Skill development in computation and calculation of health data.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

HITT1301 - Health Data Content and Structure

Course Title

Health Data Content and Structure

Academic Level

Undergraduate

Description

Introduction to systems and processes for collecting, maintaining, and disseminating primary and secondary health related information including content of health record, documentation requirements, registries, indices, licensing, regulatory agencies, forms, and screens.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HITT1305 - Medical Terminology I

Course Title

Medical Terminology I

Academic Level

Undergraduate

Description

Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

HITT1311 - Health Information Systems

Course Title

Health Information Systems

Academic Level

Undergraduate

Description

Introduction to health IT standards, health-related data structures, software applications, and enterprise architecture in health care and public health.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HITT1341 - Coding and Classification Systems

Course Title

Coding and Classification Systems

Academic Level

Undergraduate

Description

Fundamentals of coding rules, conventions, and guidelines using clinical classification systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - HITT1305 - Medical Terminology I (3)
 - Completed or concurrently enrolled in:
 - MDCA1302 - Human Disease/Pathophysiology (3)

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HITT1342 - Ambulatory Coding

Course Title

Ambulatory Coding

Academic Level

Undergraduate

Description

Fundamentals of ambulatory coding rules, conventions, and guidelines.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - HPRS2302 - Medical Terminology for Allied Health (3)
 - HITT1305 - Medical Terminology I (3)
 - Completed or concurrently enrolled in:
 - MDCA1302 - Human Disease/Pathophysiology (3)

2026-2027 Catalog & Student Handbook

HITT1345 - Health Care Delivery Systems

Course Title

Health Care Delivery Systems

Academic Level

Undergraduate

Description

Examination of delivery systems including organization, financing, accreditation, licensure, and regulatory agencies.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

HITT2000 - Electronic Health Records

Course Title

Electronic Health Records

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

2

Semester Credit Hours

0

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HITT2035 - Coding & Reimbursement Method

Course Title

Coding & Reimbursement Method

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

HITT2166 - Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician

Course Title

Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

8

Total Contact Hours

128

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

HITT2249 - RHIT Competency Review

Course Title

RHIT Competency Review

Academic Level

Undergraduate

Description

Review Health Information Technology (HIT) competencies, skills, and knowledge.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

HITT2260 - Clinical - Health Information/Medical Records Technology/Technician

Course Title

Clinical - Health Information/Medical Records Technology/Technician

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

2

Semester Credit Hours

2

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HITT2266 - Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician Course Title

Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

14

Total Contact Hours

224

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

HITT2335 - Coding and Reimbursement Methodologies

Course Title

Coding and Reimbursement Methodologies

Academic Level

Undergraduate

Description

Advanced coding techniques with emphasis on case studies, health records, and federal regulations regarding prospective payment systems and methods of reimbursement.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HITT1341 - Coding and Classification Systems (3)

2026-2027 Catalog & Student Handbook

HITT2339 - Health Information Organization and Supervision

Course Title

Health Information Organization and Supervision

Academic Level

Undergraduate

Description

Principles of organization and supervision of human, financial, and physical resources.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HITT2346 - Advanced Medical Coding

Course Title

Advanced Medical Coding

Academic Level

Undergraduate

Description

Advanced concepts of ICD and CPT coding rules, conventions, and guidelines in complex case studies. Investigation of government regulations and changes in health care reporting.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HITT1341 - Coding and Classification Systems (3)
 - HITT1342 - Ambulatory Coding (3)

2026-2027 Catalog & Student Handbook

HITT2360 - Clinical - Health Information/Medical Records Technology/Technician Course Title

Clinical - Health Information/Medical Records Technology/Technician

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete 144 total contact hours in the semester. The student should complete 9 clinical contact hours per week during a 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HITT2366 - Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician Course Title

Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

21

Total Contact Hours

336

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HITT2443 - Quality Assessment and Performance Improvement

Course Title

Quality Assessment and Performance Improvement

Academic Level

Undergraduate

Description

Study of quality standards and methodologies in the health information management environment. Topics include licensing, accreditation, compilation and presentation of data in statistical formats, quality management and performance improvement functions, utilization management, risk management, and medical staff data quality issues. Approaches to assessing patient safety issues and implementation of quality management and reporting through electronic systems.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Health Professions/Related Science

2026-2027 Catalog & Student Handbook

HPRS1004 - Basic Health Profession Skills

Course Title

Basic Health Profession Skills

Academic Level

Continuing Education

Description

A study of the concepts that serve as the foundation for health profession courses, including client care and safety issues, basic client monitoring, and health documentation methods.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

HPRS1007 - Natural Health and Healing

Course Title

Natural Health and Healing

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

2

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

HPRS1206 - Essentials of Medical Terminology

Course Title

Essentials of Medical Terminology

Academic Level

Undergraduate

Description

A study of medical terminology, word origin, structure, and application.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

HPRS2302 - Medical Terminology for Allied Health

Course Title

Medical Terminology for Allied Health

Academic Level

Undergraduate

Description

A study of medical terminology, word origin, structure, and application with an emphasis on building a professional vocabulary required for employment within the allied health care field.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Heating Air Cond/Ref

HART1000 - Air Condition & Refrigerator Duct Install **Course Title**

Air Condition & Refrigerator Duct Install

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

112

Semester Credit Hours

0

HART1010 - Shop Practice & Tools **Course Title**

Shop Practice & Tools

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

HART1093 - Online Principles SolarTherma **Course Title**

Online Principles SolarTherma

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

HART1094 - Air Conditioning,and Refrigeration Mecha **Course Title**

Air Conditioning,and Refrigeration Mecha

Academic Level

Continuing Education

Description

Special Topics in Heating, Air conditioning, and Refrigeration Mechanic and Repa

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

HART1256 - EPA Recovery Certification Preparation **Course Title**

EPA Recovery Certification Preparation

Academic Level

Undergraduate

Description

Certification training for HVAC refrigerant recovery and recycling. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigerant systems.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

HART1300 - H.V.A.C Duct Fabrication **Course Title**

H.V.A.C Duct Fabrication

Academic Level

Undergraduate

Description

Layout and fabrication of HVAC duct systems using common tools and equipment of the trade.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HART1301 - Basic Electricity for HVAC

Course Title

Basic Electricity for HVAC

Academic Level

Undergraduate

Description

Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HART1303 - Air Conditioning Control Principles

Course Title

Air Conditioning Control Principles

Academic Level

Undergraduate

Description

A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)
 - HART1345 - Gas and Electric Heating (3)

2026-2027 Catalog & Student Handbook

HART1307 - Refrigeration Principles

Course Title

Refrigeration Principles

Academic Level

Undergraduate

Description

An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components, and safety.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

HART1310 - HVAC Shop Practices and Tools

Course Title

HVAC Shop Practices and Tools

Academic Level

Undergraduate

Description

Tools and instruments used in the HVAC industry. Includes proper application, use and care of these tools, and tubing and piping practices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HART1341 - Residential Air Conditioning **Course Title**

Residential Air Conditioning

Academic Level

Undergraduate

Description

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)

2026-2027 Catalog & Student Handbook

HART1345 - Gas and Electric Heating

Course Title

Gas and Electric Heating

Academic Level

Undergraduate

Description

Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)

Corequisites

- Completed or concurrently enrolled in:
 - HART1301 - Basic Electricity for HVAC (3)

2026-2027 Catalog & Student Handbook

HART1351 - Energy Management

Course Title

Energy Management

Academic Level

Undergraduate

Description

Study of basic heat transfer theory; sensible and latent heat loads; building envelope construction; insulation, lighting, and fenestration types; and conduct energy audit procedures. The course also develops energy audit recommendations based on local utility rates, building use, and construction. Laboratory activities include developing energy audit reports, installing energy saving devices, and measuring energy consumption.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HART1356 - EPA Recovery Certification Preparation

Course Title

EPA Recovery Certification Preparation

Academic Level

Undergraduate

Description

Certification training for HVAC refrigerant recovery, recycle, and reclaim. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigeration systems.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

HART2041 - Commercial Air Conditioning

Course Title

Commercial Air Conditioning

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

HART2301 - Air Conditioning & Refrigeration Codes

Course Title

Air Conditioning & Refrigeration Codes

Academic Level

Undergraduate

Description

HVAC standards and concepts with emphasis on the understanding, and documentation of the codes and regulations required for the state mechanical contractors license and local codes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

HART2302 - Commercial Air Conditioning System Design

Course Title

Commercial Air Conditioning System Design

Academic Level

Undergraduate

Description

Advanced study in essential elements of commercial air conditioning contracting including duct systems design; equipment selection using manufacturers' data; and preparation of shop drawings and submittals.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HART2331 - Advanced Electricity for HVAC **Course Title**

Advanced Electricity for HVAC

Academic Level

Undergraduate

Description

Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution motors, motor controls, and application of solid state devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)

2026-2027 Catalog & Student Handbook

HART2334 - Advanced Air Conditioning Controls

Course Title

Advanced Air Conditioning Controls

Academic Level

Undergraduate

Description

Theory and application of electrical control devices, electromechanical controls, and/or pneumatic controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART2336 - Air Conditioning Troubleshooting (3)

2026-2027 Catalog & Student Handbook

HART2336 - Air Conditioning Troubleshooting

Course Title

Air Conditioning Troubleshooting

Academic Level

Undergraduate

Description

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1345 - Gas and Electric Heating (3)
 - HART1341 - Residential Air Conditioning (3)

2026-2027 Catalog & Student Handbook

HART2338 - Air Conditioning Installation and Startup

Course Title

Air Conditioning Installation and Startup

Academic Level

Undergraduate

Description

A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HART2341 - Commercial Air Conditioning

Course Title

Commercial Air Conditioning

Academic Level

Undergraduate

Description

A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)

2026-2027 Catalog & Student Handbook

HART2342 - Commercial Refrigeration

Course Title

Commercial Refrigeration

Academic Level

Undergraduate

Description

Theory and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1301 - Basic Electricity for HVAC (3)
 - HART1307 - Refrigeration Principles (3)

2026-2027 Catalog & Student Handbook

HART2343 - Industrial Air Conditioning

Course Title

Industrial Air Conditioning

Academic Level

Undergraduate

Description

A study of components, accessories, applications, and installation of air conditioning systems above 25 tons capacity.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)

2026-2027 Catalog & Student Handbook

HART2345 - Residential Air Conditioning Systems Design

Course Title

Residential Air Conditioning Systems Design

Academic Level

Undergraduate

Description

Study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART2336 - Air Conditioning Troubleshooting (3)
 - HART2331 - Advanced Electricity for HVAC (3)
 - HART2341 - Commercial Air Conditioning (3)

2026-2027 Catalog & Student Handbook

HART2349 - Heat Pumps

Course Title

Heat Pumps

Academic Level

Undergraduate

Description

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART1303 - Air Conditioning Control Principles (3)
 - HART1341 - Residential Air Conditioning (3)

2026-2027 Catalog & Student Handbook

HART2350 - HVAC Zone Controls

Course Title

HVAC Zone Controls

Academic Level

Undergraduate

Description

Theory and application of HVAC residential Zone control devices, electromechanical controls, and/or pneumatic controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART2336 - Air Conditioning Troubleshooting (3)

2026-2027 Catalog & Student Handbook

HART2357 - Specialized Commercial Refrigeration

Course Title

Specialized Commercial Refrigeration

Academic Level

Undergraduate

Description

An advanced course covering the components, accessories, and service of specialized refrigeration units, such as ice machines, soft-serve machines, cryogenics, and cascade systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART2336 - Air Conditioning Troubleshooting (3)

2026-2027 Catalog & Student Handbook

HART2358 - Testing, Adjusting, and Balancing HVAC Systems

Course Title

Testing, Adjusting, and Balancing HVAC Systems

Academic Level

Undergraduate

Description

A study in the process of checking and adjusting all the building environmental systems to produce the design objectives. Emphasis on efficiency and energy savings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - HART2331 - Advanced Electricity for HVAC (3)

2026-2027 Catalog & Student Handbook

HART2380 - Cooperative Education HVAC

Course Title

Cooperative Education HVAC

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

15

Total Contact Hours

256

Credits

3

Semester Credit Hours

3

Heating, Air Cond, Ventilation

2026-2027 Catalog & Student Handbook

RBPT1370 - Building Envelope Inspection

Course Title

Building Envelope Inspection

Academic Level

Undergraduate

Description

Outlines procedures for improving the comfort, durability and energy efficiency of residential homes shell or envelope. Emphasis on air leakage and sealing measures, insulation types, proper installation of doors and windows, moisture fundamentals, indoor pollutants, and health and safety issues encountered when making energy improvements.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

RBPT2325 - Energy Rating Systems for Homes

Course Title

Energy Rating Systems for Homes

Academic Level

Undergraduate

Description

Use of computer software and rating criteria to evaluate and score homes using residential energy rating systems. Emphasizes gathering data from building plans, manufacturers' specifications, and onsite testing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RBPT2335 - Residential Environmental Quality

Course Title

Residential Environmental Quality

Academic Level

Undergraduate

Description

Methods for improving the indoor and outdoor environmental quality associated with homes. Emphasizes identifying materials, building practices, and human behavior both inside and outside the home that impact environmental quality. Includes best-practice strategies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RBPT2350 - Residential Retrofit Strategies

Course Title

Residential Retrofit Strategies

Academic Level

Undergraduate

Description

Evaluation of existing homes and retrofit strategies to improve energy efficiency and environmental quality. Includes retrofitting a home for onsite power generation. Covers using a whole-house approach to evaluate the effects of comfort, safety, indoor environmental quality, financial incentives, cost effectiveness, environmental impact, energy efficiency, and the movement of heat, moisture, and air through the building enclosure.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RBPT2359 - Residential Building Performance Consulting **Course Title**

Residential Building Performance Consulting

Academic Level

Undergraduate

Description

A summary of the skills needed to be a residential building performance specialist. Emphasizes onsite building testing, use of evaluation software and rating criteria, production of reports, and presentation of recommendations to improve residential building performance.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Heavy Equipment Maintenance & Repair

HEMR1091 - Crane Operator Rigging Cert **Course Title**

Crane Operator Rigging Cert

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

HEMR1304 - Natural Gas Compression

Course Title

Natural Gas Compression

Academic Level

Undergraduate

Description

An introductory course in the principles of the operation of gas compressors and natural gas engines.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

HEMR1401 - Tracks and Undercarriages

Course Title

Tracks and Undercarriages

Academic Level

Undergraduate

Description

Concepts in operation and maintenance of final drive track systems and undercarriages used on track and wheel type equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

History for Transfer**HIST1301 - United States History I****Course Title**

United States History I

Academic Level

Undergraduate

Description

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HIST1302 - United States History II

Course Title

United States History II

Academic Level

Undergraduate

Description

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HIST2312 - Western Civilization II

Course Title

Western Civilization II

Academic Level

Undergraduate

Description

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HIST2321 - World Civilizations I

Course Title

World Civilizations I

Academic Level

Undergraduate

Description

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Horticulture

2026-2027 Catalog & Student Handbook

HORT1401 - Horticulture (lecture + Lab)

Course Title

Horticulture (lecture + Lab)

Academic Level

Undergraduate

Description

Structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management. Laboratory activities will reinforce the structure, growth, and development of horticultural plants.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

Horticulture Serv Operations

2026-2027 Catalog & Student Handbook

HALT1038 - Irrigation Water Management

Course Title

Irrigation Water Management

Academic Level

Continuing Education

Description

Application of the science of soil-water plant relations and climatic conditions to develop effective scheduling and management of irrigation water systems for residential, commercial, industrial, park, and golf courses. Water conservation issues, water policies and codes and other related matters will be discussed.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

HALT2007 - Horticultural Food Crops

Course Title

Horticultural Food Crops

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Hospitality Admin/Management

2026-2027 Catalog & Student Handbook

HAMG2305 - Hospitality Management and Leadership **Course Title**

Hospitality Management and Leadership

Academic Level

Undergraduate

Description

An overview of management and leadership in the hospitality industry with an emphasis on management philosophy, policy formulation, communications, motivation and team building.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RSTO1313 - Hospitality Supervision (3)

Human Resources Management

HRPO1091 - Sp Topic in Human Resources Management **Course Title**

Sp Topic in Human Resources Management

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

HRPO2301 - Human Resources Management **Course Title**

Human Resources Management

Academic Level

Undergraduate

Description

Behavioral and legal approaches to the management of human resources in organizations.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Humanities

2026-2027 Catalog & Student Handbook

HUMA1301 - Introduction to Humanities I

Course Title

Introduction to Humanities I

Academic Level

Undergraduate

Description

This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

HUMA2319 - American Minority Studies

Course Title

American Minority Studies

Academic Level

Undergraduate

Description

This interdisciplinary survey examines the diverse cultural, artistic, economic, historical, political, and social aspects of American minority communities. Topics may include race/ethnicity, gender, socioeconomic class, sexual orientation, national origin, age, disability, and religion.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HUMA2323 - World Cultures **Course Title**

World Cultures

Academic Level

Undergraduate

Description

This course is a general study of diverse world cultures. Topics include cultural practices, social structures, religions, arts, and languages.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Hydraulics

2026-2027 Catalog & Student Handbook

HYDR1045 - Hydraulics and Pneumatics

Course Title

Hydraulics and Pneumatics

Academic Level

Continuing Education

Description

Discussion of the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

60

Semester Credit Hours

0

HYDR1301 - Rigging and Conveying Systems

Course Title

Rigging and Conveying Systems

Academic Level

Undergraduate

Description

Introduction to directing and moving heavy objects, selecting the appropriate rigging equipment, in conjunction with the suitable hardware and lifting devices with an emphasis on inspection, care, and maintenance of rigging equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

HYDR1305 - Basic Hydraulics

Course Title

Basic Hydraulics

Academic Level

Undergraduate

Description

Fundamentals of hydraulics including safety types of hydraulic pumps, cylinders, valves, motors, and related systems. Introduction to hydraulic schematic symbols as related to components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

HYDR1345 - Hydraulics and Pneumatics

Course Title

Hydraulics and Pneumatics

Academic Level

Undergraduate

Description

Discussion of the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Implement & Support Microsoft

ITMT2003 - Administering a Microsoft Sql Server Dat **Course Title**

Administering a Microsoft Sql Server Dat

Academic Level

Continuing Education

Description

In-depth coverage of the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server databases.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

Industrial

INDS1010 - Leed Green Associae **Course Title**

Leed Green Associae

Academic Level

Continuing Education

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

INDS1300 - Interior Design Drafting Appl

Course Title

Interior Design Drafting Appl

Academic Level

Undergraduate

Description

Computer-aided drafting (CAD) as a tool for interior design, illustration, drafting, and design development

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

INDS1301 - Basic Elements of Design

Course Title

Basic Elements of Design

Academic Level

Undergraduate

Description

A study of basic design concepts with projects in shape, line, value, texture, pattern, spatial illusion, and form.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INDS1319 - Technical Drawing for Interior Designers

Course Title

Technical Drawing for Interior Designers

Academic Level

Undergraduate

Description

Introduction to reading and preparing technical instruction drawing for interior design, including plans, elevation, detail, schedules, dimensions, and lettering.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Industrial/Manufacturing Tech

INMT1000 - 5-S Training

Course Title

5-S Training

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

INMT1003 - Industrial Maintenance Technology, Basic **Course Title**

Industrial Maintenance Technology, Basic

Academic Level

Continuing Education

Description

An introduction to preventive maintenance of equipment associated with general industrial production. Instruction in diagnosing and repairing hydraulic, pneumatic and mechanical systems related to industrial equipment.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

INMT1005 - Introduction to Industrial Maintenance **Course Title**

Introduction to Industrial Maintenance

Academic Level

Continuing Education

Description

Basic mechanical skills and repair techniques common to most fields of industrial maintenance. Topics include precision measuring instruments and general safety rules common in industry, including lock-out/tag-out.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

INMT1091 - Special Topics in Manufacturing Technology/Technician

Course Title

Special Topics in Manufacturing Technology/Technician

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

12

Semester Credit Hours

0

INMT1305 - Introduction to Industrial Maintenance

Course Title

Introduction to Industrial Maintenance

Academic Level

Undergraduate

Description

Basic mechanical skills and repair techniques common to most fields of industrial maintenance. Topics include precision measuring instruments and general safety rules common in industry, including lock-out/tag-out.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INMT1317 - Industrial Automation

Course Title

Industrial Automation

Academic Level

Undergraduate

Description

Applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of set-up, maintenance, and testing of the automated system.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

INMT1319 - Manufacturing Processes

Course Title

Manufacturing Processes

Academic Level

Undergraduate

Description

Exploration of a variety of methods used in manufacturing. Theory and application of processes including but not limited to metal forming, welding, machining, heat treating, plating, assembly procedures, and process control considerations, casting and injection molding.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INMT1355 - Industrial Power Plant Systems

Course Title

Industrial Power Plant Systems

Academic Level

Undergraduate

Description

Study the principles of operation and maintenance of industrial power plants. Emphasis placed on component replacement, tune-up, and field adjustments of engine systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INMT1305 - Introduction to Industrial Maintenance (3)

2026-2027 Catalog & Student Handbook

INMT1371 - Industrial Manufacturing PLC Installation

Course Title

Industrial Manufacturing PLC Installation

Academic Level

Undergraduate

Description

A study into Programmable Logic Controllers (PLC's). Topics will include the installation of various PLC units, wiring requirements, proper shielding techniques, wiring of input and output components, troubleshooting PLC input's and output's, ladder logic design, programming, program installation, and program utilization for troubleshooting industrial systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT1341 - Motor Control (3)

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INMT1372 - Introduction to Industrial Electricity

Course Title

Introduction to Industrial Electricity

Academic Level

Undergraduate

Description

An introductory study into industrial electrical circuits. Topics will include electrical power generation, ohm's law for DC and AC circuits, the relationship between ohm's law and industrial circuits, voltage drop calculation across various loads, basic operations of electrical meters used for testing industrial circuits (to include VOM, Megohm meter, and amp meter), and designing basic industrial circuits.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INMT1373 - Print Reading for Industrial Equipment Technician

Course Title

Print Reading for Industrial Equipment Technician

Academic Level

Undergraduate

Description

An introduction into prints and schematics used in industry to assemble, install, troubleshoot, and repair industrial equipment. Topics will include blue print reading for mechanical part shapes, sizes, and dimensioning, introduction to hydraulic symbols and schematic design, introduction to pneumatic symbols and schematic design, and introduction to electrical symbols and schematic design.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INMT1374 - Industrial and Manufacturing Wiring Applications

Course Title

Industrial and Manufacturing Wiring Applications

Academic Level

Undergraduate

Description

A study into the Industrial and Manufacturing wiring applications. Topics to include the use of Ohms Law and the NEC Codes to calculate circuit protection requirements. Determination of wire sizes required for installation of industrial motors and various other industrial and commercial building equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- INMT 1374 Prerequisite(s):ELPT 1311 or INMT 1372

INMT2003 - Pumps, Compressors & Mechanical Drives

Course Title

Pumps, Compressors & Mechanical Drives

Academic Level

Continuing Education

Description

A study of the theory and operations of various types of pumps and compressors. Topics include mechanical power transmission systems including gears, v-belts, and chain drives.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

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INMT2045 - Industrial Troubleshooting **Course Title**

Industrial Troubleshooting

Academic Level

Continuing Education

Description

An advanced study of the techniques used in troubleshooting various types of industrial equipment to include mechanical, electrical, hydraulic, and pneumatic systems and their control devices. Emphasis will be placed on the use of schematics and diagrams in conjunction with proper troubleshooting procedures.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

INMT2301 - Machinery Installation

Course Title

Machinery Installation

Academic Level

Undergraduate

Description

Students utilize skills acquired in previous studies. Machinery foundation, locations, installation, and alignment activities are practiced and tested. Emphasis is on the various methods of shaft alignment including laser shaft alignment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INMT1305 - Introduction to Industrial Maintenance (3)

2026-2027 Catalog & Student Handbook

INMT2303 - Pumps, Compressors & Mechanical Drives

Course Title

Pumps, Compressors & Mechanical Drives

Academic Level

Undergraduate

Description

A study of the theory and operations of various types of pumps and compressors. Topics include mechanical power transmission systems including gears, v-belts, and chain drives.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INMT1305 - Introduction to Industrial Maintenance (3)

2026-2027 Catalog & Student Handbook

INMT2345 - Industrial Troubleshooting

Course Title

Industrial Troubleshooting

Academic Level

Undergraduate

Description

An advanced study of the techniques used in troubleshooting various types of industrial equipment to include mechanical, electrical, hydraulic, and pneumatic systems and their control devices. Emphasis will be placed on the use of schematics and diagrams in conjunction with proper troubleshooting procedures.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ELPT1341 - Motor Control (3)

2026-2027 Catalog & Student Handbook

INMT2371 - Intermediate PLC Applications

Course Title

Intermediate PLC Applications

Academic Level

Undergraduate

Description

A study into intermediate level PLC applications to include field device programming, Analog I/O's, and basic HMI interface understanding along with mechanical, pneumatic, and hydraulic system control.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 credits from the following:
 - ELPT2319 - Programmable Logic Controllers I (3)
 - INMT1371 - Industrial Manufacturing PLC Installation (3)

2026-2027 Catalog & Student Handbook

INMT2388 - Internship - Manufacturing Technology/Technician **Course Title**

Internship - Manufacturing Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Info Tech Digital Forensics

2026-2027 Catalog & Student Handbook

ITDF1300 - Introduction to Digital Forensics

Course Title

Introduction to Digital Forensics

Academic Level

Undergraduate

Description

A study of the application of digital forensic technology to collect, analyze, document, and present information while maintaining a documented chain of custody. Overview of ethics, crime, and other legal guidelines/regulations/laws. Includes overview of tools used for forensic analysis of digital devices in investigations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - ITSC1325 - Personal Computer Hardware (3)
 - ITSY1342 - Information Technology Security (3)

2026-2027 Catalog & Student Handbook

ITDF1305 - Digital Data Storage Forensics

Course Title

Digital Data Storage Forensics

Academic Level

Undergraduate

Description

Exploration, examination, and assessment of the characteristics and details of digital storage media used in computers systems and small-scale digital devices. Includes experimenting with various tools to reinforce identification of evidentiary data.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITDF1390 - Special Topics in Computer & Information Systems Security/Information Assurance **Course Title**

Special Topics in Computer & Information Systems Security/Information Assurance

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITDF2320 - Digital Forensics Collection **Course Title**

Digital Forensics Collection

Academic Level

Undergraduate

Description

A study of acquiring digital evidence from devices, networks and logs while preserving the evidentiary chain. Includes the legal aspects of the search and seizure of computers and related equipment/information.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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ITDF2325 - Digital Forensics Tools **Course Title**

Digital Forensics Tools

Academic Level

Undergraduate

Description

Skills-based course in the applications of forensic analysis software. Tools used in this course may include EnCase, ILook, Forensic Tool Kit, write blockers, StegAlyzerSS, "X-Ways", ProDiscover Basic, and others.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ITDF2330 - Digital Forensics Analysis **Course Title**

Digital Forensics Analysis

Academic Level

Undergraduate

Description

Digital forensic analysis, report preparation, and evidence presentation. Emphasizes balancing legal and technical aspects of cases where digital forensics is employed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITDF2335 - Comprehensive Digital Forensics Project **Course Title**

Comprehensive Digital Forensics Project

Academic Level

Undergraduate

Description

Comprehensive application of skills learned in previous digital forensics courses in a simulated crime scene or workplace investigation. Includes collection, analysis, and presentation of digital data and evidence in a problem-based case study format. This course is used as a capstone course for a certificate or degree.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ITDF2420 - Digital Forensics Collection

Course Title

Digital Forensics Collection

Academic Level

Undergraduate

Description

A study of acquiring digital evidence from devices, networks and logs while preserving the evidentiary chain. Includes the legal aspects of the search and seizure of computers and related equipment/information.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ITDF2425 - Digital Forensics Tools

Course Title

Digital Forensics Tools

Academic Level

Undergraduate

Description

Skills-based course in the applications of forensic analysis software and hardware tools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ITDF2420 - Digital Forensics Collection (4)

2026-2027 Catalog & Student Handbook

ITDF2430 - Digital Forensics Analysis

Course Title

Digital Forensics Analysis

Academic Level

Undergraduate

Description

Digital forensic analysis, report preparation, and evidence presentation. Emphasizes balancing legal and technical aspects of cases where digital forensics is employed.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

ITDF2435 - Comprehensive Digital Forensics Project

Course Title

Comprehensive Digital Forensics Project

Academic Level

Undergraduate

Description

Comprehensive application of skills learned in previous digital forensics courses in a simulated crime scene or workplace investigation. Includes collection, analysis, and presentation of digital data and evidence in a problem-based case study format.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - ITDF2430 - Digital Forensics Analysis (4)

Information Technology Security

2026-2027 Catalog & Student Handbook

ITSY1091 - Sp.Topics in Information Tech

Course Title

Sp.Topics in Information Tech

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

ITSY1342 - Information Technology Security

Course Title

Information Technology Security

Academic Level

Undergraduate

Description

Instruction in security for network computer hardware, software, virtualization, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Topics may adapt to changes in industry practices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - ITNW1358 - Network+ (3)
 - ITNW1325 - Fundamentals of Networking Technologies (3)

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ITSY1374 - Secure Linux Administration

Course Title

Secure Linux Administration

Academic Level

Undergraduate

Description

Configure and manage security on Linux systems, to include Linux installation, basic administration, utilities and commands, upgrading system, networking, and application installation; Management and securing network services and hardening of the system OS to mitigate security risks; Introduction to common Linux-based open source security tools used to assess security vulnerabilities, analyze malware, and conduct penetration testing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - ITNW1354 - Implementing and Supporting Servers (3)
 - ITSC1316 - Linux Installation and Configuration (3)
 - Complete at least 1 of the following:
 - ITNW1358 - Network+ (3)
 - ITNW1325 - Fundamentals of Networking Technologies (3)

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ITSY1375 - Security Scripting

Course Title

Security Scripting

Academic Level

Undergraduate

Description

Utilize scripting languages to create scripts that could be used for security assessments, data analysis(data manipulation; textual manipulation), and automating administrative security tasks.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSY1374 - Secure Linux Administration (3)
 - ITSC1325 - Personal Computer Hardware (3)

2026-2027 Catalog & Student Handbook

ITSY2300 - Operating System Security

Course Title

Operating System Security

Academic Level

Undergraduate

Description

Safeguard operating systems by demonstrating support skills and designing and implementing security processes. Identify security threats and monitor security implementations. Use best practices to configure operating systems to industry security standards.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW1308 - Implementing and Supporting Client Operating Systems (3)

2026-2027 Catalog & Student Handbook

ITSY2301 - Firewalls and Network Security

Course Title

Firewalls and Network Security

Academic Level

Undergraduate

Description

Identify elements of secure network design that may include segmentation, firewall implementation or a combination thereof to mitigate various types of security threats and attacks. Use Best Practices to design, implement, monitor and manage a network security plan. Examine security incident postmortem reporting and ongoing network security activities.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW2312 - Routers (3)

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ITSY2330 - Intrusion Detection

Course Title

Intrusion Detection

Academic Level

Undergraduate

Description

Computer information systems security monitoring, intrusion detection, and crisis management. Includes alarm management, signature configuration, sensor configuration, and troubleshooting components. Emphasizes identifying, resolving, and documenting network crises and activating the response team.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITNW2321 - Networking with TCP/IP (3)

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ITSY2341 - Security Management Practices

Course Title

Security Management Practices

Academic Level

Undergraduate

Description

In-depth coverage of security management practices, including asset evaluation and risk management; cyber law and ethics issues; policies and procedures; business recovery and business continuity planning; network security design; and developing and maintaining a security plan.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSY1342 - Information Technology Security (3)

2026-2027 Catalog & Student Handbook

ITSY2343 - Computer System Forensics

Course Title

Computer System Forensics

Academic Level

Undergraduate

Description

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Collect document and evaluate evidence to perform postmortem analysis of a security breach.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITDF1300 - Introduction to Digital Forensics (3)

2026-2027 Catalog & Student Handbook

ITSY2345 - Network Defense and Countermeasures

Course Title

Network Defense and Countermeasures

Academic Level

Undergraduate

Description

This is a practical application and comprehensive course that includes the planning, design, and construction of defenses for a complex network that will sustain an attack, document events, and mitigate the effects of the attack.

Lecture Hours

2

Lab Hours

4

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - ITNW1354 - Implementing and Supporting Servers (3)
 - ITSY1374 - Secure Linux Administration (3)
 - Complete at least 1 of the following:
 - ITNW2321 - Networking with TCP/IP (3)
 - ITSY1342 - Information Technology Security (3)

2026-2027 Catalog & Student Handbook

ITSY2359 - Security Assessment and Auditing

Course Title

Security Assessment and Auditing

Academic Level

Undergraduate

Description

Comprehensive experience for the security curriculum. Synthesizes technical material covered in prior courses to monitor, audit, analyze, and revise computer and network security systems that ensure industry specific levels of protection are in place to assure regulatory compliance

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSY2345 - Network Defense and Countermeasures (3)

2026-2027 Catalog & Student Handbook

ITSY2372 - Cybersecurity Capstone

Course Title

Cybersecurity Capstone

Academic Level

Undergraduate

Description

A capstone course in cybersecurity requiring students to assess, design, implement, and evaluate security measures within an enterprise environment through analysis of real-world scenarios.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITDF1300 - Introduction to Digital Forensics (3)
 - ITSY1342 - Information Technology Security (3)
 - ITSY2341 - Security Management Practices (3)
 - ITSY2345 - Network Defense and Countermeasures (3)

2026-2027 Catalog & Student Handbook

ITSY2386 - Internship - Computer and Information Systems Security **Course Title**

Internship - Computer and Information Systems Security

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITDF1300 - Introduction to Digital Forensics (3)
 - ITSY1342 - Information Technology Security (3)
 - ITSY2341 - Security Management Practices (3)
 - ITSY2345 - Network Defense and Countermeasures (3)

Institutional Food Workers/Adm

2026-2027 Catalog & Student Handbook

IFWA1050 - Processors & Manuf. CORE HACCP

Course Title

Processors & Manuf. CORE HACCP

Academic Level

Continuing Education

Description

Common food safety and sanitation practices that should be utilized in food establishments. Topics include keys to providing safe food, food safety hazards, standards for the food safety handler, purchasing and receiving safe food, storing food safely, keeping food safe during preparation and service, proper cleaning and sanitizing, and developing an Integrated Pest Management (IPM) program.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

1

Total Contact Hours

18

Semester Credit Hours

0

IFWA1091 - Special Topics in Institutional Food Wor

Course Title

Special Topics in Institutional Food Wor

Academic Level

Continuing Education

Description

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

IFWA1205 - Food Service Equipment and Planning

Course Title

Food Service Equipment and Planning

Academic Level

Undergraduate

Description

A study of various types of food service equipment and the planning of equipment layout for product flow and efficient operation.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

IFWA1217 - Food Production and Planning

Course Title

Food Production and Planning

Academic Level

Undergraduate

Description

Skill development in basic mathematical operations and study of their applications in the food service industry. Topics include percentages, weights and measures, ratio and proportion, weights and measures conversions, determination of portion costs for menu items and complete menus, portion control, and the increase and decrease of standard recipes.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

IFWA1218 - Nutrition for the Food Service Professional **Course Title**

Nutrition for the Food Service Professional

Academic Level

Undergraduate

Description

An introduction to nutrition including nutrients, digestion and metabolism, menu planning, recipe modification, dietary guidelines and restrictions, diet and disease, and healthy cooking techniques.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

IFWA1318 - Nutrition for the Food Service Prof Professional **Course Title**

Nutrition for the Food Service Prof Professional

Academic Level

Undergraduate

Description

An introduction to nutrition including nutrients, digestion and metabolism, menu planning, recipe modification, dietary guidelines and restrictions, diet and disease, and healthy cooking techniques.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IFWA1401 - Food Preparation I

Course Title

Food Preparation I

Academic Level

Undergraduate

Description

A study of the fundamental principles of food preparation and cookery. Emphasis on basic techniques of preparing soups, salads, dressings, sandwiches, beverages, vegetables, and cheese and egg cookery.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

IFWA1427 - Food Preparation II

Course Title

Food Preparation II

Academic Level

Undergraduate

Description

Continuation of the fundamental principles of food preparation. Emphasis on preparation of food items such as meats, poultry and fish.

Lecture Hours

2

Lab Hours

8

Ext. Con. Hrs

0

Total Contact Hours

160

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete all of the following
 - Complete at least 1 of the following:
 - CHEF1205 - Sanitation and Safety (2)
 - CHEF1305 - Sanitation and Safety (3)
 - Complete the following:
 - IFWA1401 - Food Preparation I (4)

2026-2027 Catalog & Student Handbook

IFWA2341 - Specialized Food Preparation

Course Title

Specialized Food Preparation

Academic Level

Undergraduate

Description

A study of ethnic/regional cooking with actual preparation of local favorite dishes and common international favorites.

Lecture Hours

1

Lab Hours

7

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - IFWA1427 - Food Preparation II (4)
 - PSTR2431 - Advanced Pastry Shop (4)

Instructional Media Technology

2026-2027 Catalog & Student Handbook

IMED1002 - Web Page Creation I

Course Title

Web Page Creation I

Academic Level

Continuing Education

Description

Web page creation with graphic elements. Includes use of Web authoring software and study of websites and browsers.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

IMED1040 - Web Site Creation II

Course Title

Web Site Creation II

Academic Level

Continuing Education

Description

Publishing, design, and layout techniques for Websites. Utilizes techniques in animation, tables, and forms. Also includes application of tools for creating and editing a Website.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

IMED1316 - Web Design I

Course Title

Web Design I

Academic Level

Undergraduate

Description

Instruction in web design and related graphic design including mark-up languages, and browser issues.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - ITSE1311 - Beginning Web Programming (3)
 - IMED1371 - Ui/Ux Design (3)

2026-2027 Catalog & Student Handbook

IMED1341 - Interface Design

Course Title

Interface Design

Academic Level

Undergraduate

Description

Interface design process including selecting interfaces that are relative to a project's content and delivery system. Emphasis on aesthetic issues such as iconography, screen composition, colors, and typography.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IMED1345 - Interactive Digital Media I

Course Title

Interactive Digital Media I

Academic Level

Undergraduate

Description

Exploration of the use of graphics and sound to create interactive digital media applications and/or animations using industry standard authoring software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - IMED1341 - Interface Design (3)

2026-2027 Catalog & Student Handbook

IMED1371 - Ui/Ux Design

Course Title

Ui/Ux Design

Academic Level

Undergraduate

Description

Application of user experience and user interface design within the context of web design. Instruction in user interface design with an emphasis on the visual, interactive elements of a website including buttons, icons, spacing, typography, color schemes, and responsive design.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IMED2309 - Internet Commerce

Course Title

Internet Commerce

Academic Level

Undergraduate

Description

An overview of the Internet as a marketing and sales tool with emphasis on developing a framework for electronic commerce

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE1306 - PHP Programming (3)

2026-2027 Catalog & Student Handbook

IMED2311 - Portfolio Development **Course Title**

Portfolio Development

Academic Level

Undergraduate

Description

Preparation and enhancement of portfolio to meet professional standards, development of presentation skills, and job-seeking techniques.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2313 - Web Authoring (3)
 - IMED2309 - Internet Commerce (3)
 - IMED2315 - Web Design II (3)

2026-2027 Catalog & Student Handbook

IMED2313 - Project Analysis and Design

Course Title

Project Analysis and Design

Academic Level

Undergraduate

Description

Application of the planning and production processes for digital media projects. Emphasis on copyright and other legal issues, content design and production management.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IMED2315 - Web Design II

Course Title

Web Design II

Academic Level

Undergraduate

Description

Mark-up language and advanced layout techniques for creating web pages. Emphasis on identifying the target audience and producing web sites, according to World Wide Web Consortium (W3C) standards and legal issues.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - IMED1316 - Web Design I (3)

2026-2027 Catalog & Student Handbook

IMED2345 - Interactive Digital Media II

Course Title

Interactive Digital Media II

Academic Level

Undergraduate

Description

Instruction in the use of scripting languages to create interactive digital media applications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2302 - Intermediate Web Programming (3)

2026-2027 Catalog & Student Handbook

IMED2349 - Internet Server Management

Course Title

Internet Server Management

Academic Level

Undergraduate

Description

Web server software installation, configuration, and maintenance. Includes scripting and website optimization.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

IMED2351 - Digital Media Programming

Course Title

Digital Media Programming

Academic Level

Undergraduate

Description

Advanced topics in digital media programming including custom scripts for data tracking. Emphasis on developing digital media programs customized to the client's needs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:

2026-2027 Catalog & Student Handbook

IMED2359 - Interactive Web Elements

Course Title

Interactive Web Elements

Academic Level

Undergraduate

Description

Production of projects using current web development tools that may incorporate dynamic data, web graphics, animation, video and audio streaming.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - IMED1341 - Interface Design (3)

2026-2027 Catalog & Student Handbook

IMED2388 - Internship - Digital Communication and Media/Multimedia

Course Title

Internship - Digital Communication and Media/Multimedia

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Students are required to complete 144 hrs total in the semester. It is recommended that a student completes 10 hours a week. The position and company must be pre-approved before a student signs up for the internship class. Employer reviews and hour logs are required.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ITSE2313 - Web Authoring (3)
 - IMED2309 - Internet Commerce (3)
 - IMED2315 - Web Design II (3)

Instrumentation, Technician

2026-2027 Catalog & Student Handbook

INTC1005 - Introduction to Instrumentation Intro to Instrumentation

Course Title

Introduction to Instrumentation Intro to Instrumentation

Academic Level

Continuing Education

Description

A survey of the instrumentation field and the professional requirements of the instrumentation technician.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

50

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

INTC1305 - Introduction to Instrumentation

Course Title

Introduction to Instrumentation

Academic Level

Undergraduate

Description

A survey of the instrumentation field and the professional requirements of the instrumentation technician.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - CETT1303 - DC Circuits (3)

Corequisites

- Completed or concurrently enrolled in:

2026-2027 Catalog & Student Handbook

INTC1312 - Instrumentation and Safety

Course Title

Instrumentation and Safety

Academic Level

Undergraduate

Description

An overview of industries employing instrument technicians. Includes instrument safety techniques and practices as applied to the instrumentation field.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INTC1341 - Principles of Automatic Control

Course Title

Principles of Automatic Control

Academic Level

Undergraduate

Description

Basic measurements, automatic control systems and design, control loop systems, controllers, feedback, control modes, and control configurations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1305 - Introduction to Instrumentation (3)

2026-2027 Catalog & Student Handbook

INTC1343 - Application of Industrial Automatic Controls

Course Title

Application of Industrial Automatic Controls

Academic Level

Undergraduate

Description

Automatic process control including measuring devices, analog and digital instrumentation, signal transmitters, recorders, alarms, controllers, control valves, and process and instrument diagrams. Includes connection and troubleshooting of loops.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INTC1348 - Analytical Instrumentation

Course Title

Analytical Instrumentation

Academic Level

Undergraduate

Description

Analytical instruments emphasizing utilization in process applications. Includes, chromatography, pH, conductivity, and spectrophotometric instruments.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1341 - Principles of Automatic Control (3)

2026-2027 Catalog & Student Handbook

INTC1350 - Digital Measurement and Controls

Course Title

Digital Measurement and Controls

Academic Level

Undergraduate

Description

Basic measurement control instrumentation. Includes movement of digital data through common systems employing parallel and serial transfers.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1301 - Programmable Logic Controllers (3)
 - INTC1355 - Unit Operations (3)

2026-2027 Catalog & Student Handbook

INTC1355 - Unit Operations

Course Title

Unit Operations

Academic Level

Undergraduate

Description

Automatic control requirements of industrial processes. Includes control systems, control loop tuning, and analysis.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1341 - Principles of Automatic Control (3)

2026-2027 Catalog & Student Handbook

INTC1356 - Instrumentation Calibration

Course Title

Instrumentation Calibration

Academic Level

Undergraduate

Description

Techniques for configuring and calibrating transmitters, controllers, recorders, valves, and valve positioners.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1355 - Unit Operations (3)

2026-2027 Catalog & Student Handbook

INTC1357 - AC/DC Motor Control

Course Title

AC/DC Motor Control

Academic Level

Undergraduate

Description

A study of electric motors and motor control devices common to a modern industrial environment. A presentation of motor characteristics with emphasis on starting, speed control, and stopping systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

INTC1358 - Flow and Measurement Calibration

Course Title

Flow and Measurement Calibration

Academic Level

Undergraduate

Description

Practical methods of flow measurements and flow integration. Emphasizes primary flow element selection and calculations in accordance with American Gas Association (AGA) and American Petroleum Institute (API) standards.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INTC1370 - Power Supply **Course Title**

Power Supply

Academic Level

Undergraduate

Description

A study of automatic process control including measuring devices, analog and digital instrumentation, signal transmitters, recorders, alarms, controllers, control valves, and process and instrument drawings. Includes connection and troubleshooting of loops.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

INTC1391 - Special Topics in Instrumentation Technology/Technician

Course Title

Special Topics in Instrumentation Technology/Technician

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC2333 - Instrumentation Systems Installation (3)

2026-2027 Catalog & Student Handbook

INTC2030 - Instrumentation Troubleshooting

Course Title

Instrumentation Troubleshooting

Academic Level

Continuing Education

Description

An in-depth coverage of the techniques of troubleshooting in a complex instrumented environment. Laboratory exercises require troubleshooting upsets in chemical processes.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

INTC2310 - Principles of Industrial Measurements II

Course Title

Principles of Industrial Measurements II

Academic Level

Undergraduate

Description

Additional principles of measurement. Includes devices used to measure process variables and basic control functions.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1355 - Unit Operations (3)

2026-2027 Catalog & Student Handbook

INTC2330 - Instrumentation Systems Troubleshooting **Course Title**

Instrumentation Systems Troubleshooting

Academic Level

Undergraduate

Description

Techniques for troubleshooting instrumentation systems in a process environment. Includes troubleshooting upsets in processes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1343 - Application of Industrial Automatic Controls (3)

2026-2027 Catalog & Student Handbook

INTC2333 - Instrumentation Systems Installation

Course Title

Instrumentation Systems Installation

Academic Level

Undergraduate

Description

Synthesis, application, and integration of instrument installation components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1355 - Unit Operations (3)

2026-2027 Catalog & Student Handbook

INTC2336 - Distributed Control and Programmable Logic

Course Title

Distributed Control and Programmable Logic

Academic Level

Undergraduate

Description

An overview of distributed control systems including configuration of programmable logic controllers, smart transmitters, and field communicators. Functions of digital systems in a process control environment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Completed or concurrently enrolled in:
 - RBTC1301 - Programmable Logic Controllers (3)

Corequisites

- Completed or concurrently enrolled in:

2026-2027 Catalog & Student Handbook

INTC2339 - Instrument and Control Review

Course Title

Instrument and Control Review

Academic Level

Undergraduate

Description

An overview of instrument and control technology in preparation for industry employment and national testing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC1343 - Application of Industrial Automatic Controls (3)

2026-2027 Catalog & Student Handbook

INTC2350 - Fieldbus Process Control Systems

Course Title

Fieldbus Process Control Systems

Academic Level

Undergraduate

Description

A comprehensive view of fieldbus systems using theory, applications, and hands-on experiences.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INTC2333 - Instrumentation Systems Installation (3)

Integrated Reading/Writing

2026-2027 Catalog & Student Handbook

INRW0100 - Integrated Reading/Writing I

Course Title

Integrated Reading/Writing I

Academic Level

Undergraduate

Description

This course covers introductory integrated reading and writing topics.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- PR: ELAR or (Reading + Writing) Level 1 Placement

Corequisites

- Concurrently enrolled in:
 - NCBI0100 - BASE Reading/Writing Lab (0)

2026-2027 Catalog & Student Handbook

INRW0200 - Integrated Reading/Writing II

Course Title

Integrated Reading/Writing II

Academic Level

Undergraduate

Description

Integration of critical reading and academic writing skills.

Additional Course Information

Students completing this course with a C or better have completed their TSI requirements for ELAR.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

Semester Credit Hours

3

Intro to Computing

2026-2027 Catalog & Student Handbook

COSC1336 - Programming Fundamentals I

Course Title

Programming Fundamentals I

Academic Level

Undergraduate

Description

Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

COSC1337 - Programming Fundamentals II

Course Title

Programming Fundamentals II

Academic Level

Undergraduate

Description

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. (This course is included in the Field of Study Curriculum for Computer Science.)

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - COSC1336 - Programming Fundamentals I (3)

2026-2027 Catalog & Student Handbook

COSC2325 - Computer Organization

Course Title

Computer Organization

Academic Level

Undergraduate

Description

The organization of computer systems is introduced using assembly language. Topics include basic concepts of computer architecture and organization, memory hierarchy, data types, computer arithmetic, control structures, interrupt handling, instruction sets, performance metrics, and the mechanics of testing and debugging computer systems. Embedded systems and device interfacing are introduced. This course is included in the Field of Study Curriculum for Computer Science.

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - COSC1336 - Programming Fundamentals I (3)

2026-2027 Catalog & Student Handbook

COSC2336 - Programming Fundamentals III

Course Title

Programming Fundamentals III

Academic Level

Undergraduate

Description

Further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), searching, sorting, recursion, and algorithmic analysis. Programs will be implemented in an appropriate object oriented language. (This course is included in the Field of Study Curriculum for Computer Science.)

Lecture Hours

3

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - COSC1337 - Programming Fundamentals II (3)

Introduction to Construction

2026-2027 Catalog & Student Handbook

CNBT1011 - Const Methods & Materials

Course Title

Const Methods & Materials

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CNBT1016 - Construction Technology I

Course Title

Construction Technology I

Academic Level

Continuing Education

Description

Introduction to site preparation foundations, form work, safety, tools, and equipment.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

72

Credits

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CNBT1300 - Residential and Light Commercial Construction Drawings

Course Title

Residential and Light Commercial Construction Drawings

Academic Level

Undergraduate

Description

Introduction to construction drawings with a focus on residential and light commercial construction.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT1302 - Mechanical, Electrical & Plumbing Systems in Construction I

Course Title

Mechanical, Electrical & Plumbing Systems in Construction I

Academic Level

Undergraduate

Description

A presentation of the basic mechanical, electrical, and plumbing components in construction and their relationship to residential and light commercial buildings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT1311 - Construction Methods and Materials I

Course Title

Construction Methods and Materials I

Academic Level

Undergraduate

Description

Introduction to construction materials and methods and their applications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT1313 - Concrete I

Course Title

Concrete I

Academic Level

Undergraduate

Description

Various techniques for concrete utilization in residential and light commercial construction.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT1315 - Field Engineering I

Course Title

Field Engineering I

Academic Level

Undergraduate

Description

Surveying equipment, sketches, proper field note taking, methods of staking, layout of building site, and horizontal and vertical controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT1316 - Construction Technology I

Course Title

Construction Technology I

Academic Level

Undergraduate

Description

Introduction to site preparation, foundations, form work, safety, tools, and equipment.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT1342 - Building Codes and Inspections

Course Title

Building Codes and Inspections

Academic Level

Undergraduate

Description

Building codes and standards applicable to building construction and inspection processes.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT1346 - Construction Estimating I

Course Title

Construction Estimating I

Academic Level

Undergraduate

Description

Fundamentals of estimating materials, equipment, and labor costs in construction.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT1350 - Construction Technology II

Course Title

Construction Technology II

Academic Level

Undergraduate

Description

Framing in residential and light commercial construction. Includes safety, tools, and equipment used in floor, wall, ceiling, and roof framing methods and systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT1359 - Project Scheduling

Course Title

Project Scheduling

Academic Level

Undergraduate

Description

A study of conventional scheduling using critical-path-method, precedence networks, bar charts, monthly reports, and fast-track scheduling.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT1411 - Construction Materials and Methods I

Course Title

Construction Materials and Methods I

Academic Level

Undergraduate

Description

Introduction to construction materials and methods and their applications.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

CNBT1449 - Concrete II **Course Title**

Concrete II

Academic Level

Undergraduate

Description

Various techniques for concrete utilization in commercial and heavy construction.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - CNBT1313 - Concrete I (3)

2026-2027 Catalog & Student Handbook

CNBT1450 - Construction Technology II

Course Title

Construction Technology II

Academic Level

Undergraduate

Description

Framing in residential and light commercial construction. Includes safety, tools, and equipment used in floor, wall, ceiling, and roof framing methods and systems.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - CNBT1316 - Construction Technology I (3)

2026-2027 Catalog & Student Handbook

CNBT1453 - Construction Technology III

Course Title

Construction Technology III

Academic Level

Undergraduate

Description

Exterior Trim and finish for residential and light commercial construction.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - CNBT1316 - Construction Technology I (3)

2026-2027 Catalog & Student Handbook

CNBT1680 - Cooperative Education - Construction Engineering Technology/Technician **Course Title**

Cooperative Education - Construction Engineering Technology/Technician

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

This course is the technical elective for the BCT.CRF.CER1 with a minimum requirement of 40 hours per week for 15 weeks

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

CNBT2014 - Leed Green Associate Exam Prep **Course Title**

Leed Green Associate Exam Prep

Academic Level

Continuing Education

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CNBT2305 - Building and Contracting

Course Title

Building and Contracting

Academic Level

Undergraduate

Description

Basic process of organizing and operating a building or contracting business.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CNBT2342 - Construction Management I (3)

2026-2027 Catalog & Student Handbook

CNBT2310 - Commercial/Industrial Blueprint Reading

Course Title

Commercial/Industrial Blueprint Reading

Academic Level

Undergraduate

Description

Blueprint reading for commercial/industrial construction.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CNBT1300 - Residential and Light Commercial Construction Drawings (3)

2026-2027 Catalog & Student Handbook

CNBT2317 - Green Building

Course Title

Green Building

Academic Level

Undergraduate

Description

Methods and materials used for buildings that conserve energy, water, and human resources.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT2337 - Construction Estimating II

Course Title

Construction Estimating II

Academic Level

Undergraduate

Description

Advanced estimating concepts using computer software for construction and crafts.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT2339 - Construction Technology IV

Course Title

Construction Technology IV

Academic Level

Undergraduate

Description

Interior finish for residential and light commercial construction.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

CNBT2342 - Construction Management I

Course Title

Construction Management I

Academic Level

Undergraduate

Description

Overview of the construction industry and management skills on the job site. Topics include written and oral communications, leadership and motivation, problem solving, and decision making.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT2344 - Construction Management II

Course Title

Construction Management II

Academic Level

Undergraduate

Description

A management course in contract documents, safety, planning, scheduling, production control, law and labor issues. Topics include contracts, planning, cost and production peripheral documents, and cost and work analysis.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

CNBT2404 - Construction Methods and Materials II

Course Title

Construction Methods and Materials II

Academic Level

Undergraduate

Description

Continuation of the study of the properties of building materials, methods and equipment for their integrated use in completing construction projects.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - CNBT1411 - Construction Materials and Methods I (4)

2026-2027 Catalog & Student Handbook

CNBT2439 - Construction Technology IV

Course Title

Construction Technology IV

Academic Level

Undergraduate

Description

Interior finish for residential and light commercial construction.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - CNBT1316 - Construction Technology I (3)

Jailer

2026-2027 Catalog & Student Handbook

CJLE1010 - Texas Alcoholic Beverage Code

Course Title

Texas Alcoholic Beverage Code

Academic Level

Continuing Education

Description

Overview of the Texas Alcoholic Beverage Code and the Texas Alcoholic Beverage Commission.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CJLE1011 - Basic Firearms

Course Title

Basic Firearms

Academic Level

Continuing Education

Description

Firearm safety, cleaning and care techniques, proper shooting principles, and firearm proficiency.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE1023 - Firearms **Course Title**

Firearms

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CJLE1026 - Basic Crime Prevention **Course Title**

Basic Crime Prevention

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE1041 - Sexual Assault Investigation

Course Title

Sexual Assault Investigation

Academic Level

Continuing Education

Description

General principles of conducting a sexual assault investigation including proper evidence handling.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

CJLE1042 - Legislative Update

Course Title

Legislative Update

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

4

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE1048 - Current Issues in Arrest, Sear **Course Title**

Current Issues in Arrest, Sear

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CJLE1052 - Border Violence, Mx. Drug Cartels, Gangs **Course Title**

Border Violence, Mx. Drug Cartels, Gangs

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE1059 - Intermediate Spanish for Law E

Course Title

Intermediate Spanish for Law E

Academic Level

Continuing Education

Description

Practical Spanish communication skills for law enforcement. Meets the requirements as established by the Texas Commission on Law Enforcement (TCLEOSE) Course 2110.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

CJLE2000 - Professional Development: Criminal Justi

Course Title

Professional Development: Criminal Justi

Academic Level

Continuing Education

Description

Intensive training in an identified area(s) to meet continuing education and/or review/update requirements associated with professional licensure or certification. This course is designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE2002 - Arrest, Search and Seizure **Course Title**

Arrest, Search and Seizure

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CJLE2006 - Advance Crime Prevention **Course Title**

Advance Crime Prevention

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE2007 - Crime Prevention

Course Title

Crime Prevention

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

24

Semester Credit Hours

0

CJLE2018 - Intermediate Criminal Investigation

Course Title

Intermediate Criminal Investigation

Academic Level

Continuing Education

Description

New investigative techniques and current information on arrest, search, seizure, and processing and collecting evidence.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE2025 - Crisis Communications

Course Title

Crisis Communications

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

CJLE2042 - Trfc. Law Enfor.&Accid.Invest

Course Title

Trfc. Law Enfor.&Accid.Invest

Academic Level

Continuing Education

Lecture Hours

5

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

80

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

CJLE2049 - Basic Instructor **Course Title**

Basic Instructor

Academic Level

Continuing Education

Description

The adult learning process and the differences between adult and child learning. Includes the role of the instructor, the three domains of learning, and their impact on the learning process. Meets the Texas Commission on Law Enforcement (TCLEOSE) requirements.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

Laser Optics

LOTT1001 - Introduction to Fiber Optics **Course Title**

Introduction to Fiber Optics

Academic Level

Continuing Education

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

Law

2026-2027 Catalog & Student Handbook

LAWT1301 - Copyright and Ethical Issues

Course Title

Copyright and Ethical Issues

Academic Level

Undergraduate

Description

Introduction to basic copyright law and related ethical issues as they apply to creation and use of copyrighted material. Emphasis on practical application of copyright law through case studies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Lineworker-Electrical Tran Systems

2026-2027 Catalog & Student Handbook

LNWK1211 - Climbing Skills

Course Title

Climbing Skills

Academic Level

Undergraduate

Description

Theory and application of pole climbing. Includes safety, climbing techniques, tool inspection, poles inspection, personal protective equipment, and fall protection.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

LNWK1231 - Transformer Connections

Course Title

Transformer Connections

Academic Level

Undergraduate

Description

An introduction to basic transformer connections and theory (including basic alternating current (AC) theory) and their direct application to single phase and three phase transformers. Students will study and practice basic transformer connections and fundamentals.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

LNWK1241 - Distribution Operations

Course Title

Distribution Operations

Academic Level

Undergraduate

Description

A study of the theoretical and practical operation of electric utility distribution systems. Topics include customer service voltages, capacitors, and coordination of protection equipment.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK1301 - Orientation and Line Skill Fundamentals

Course Title

Orientation and Line Skill Fundamentals

Academic Level

Undergraduate

Description

Examination of utility company operations. Topics include company structure, safety and distribution standards handbook, lineman's tools, vocabulary, and work procedures. Discussion of basic electrical systems including the history of power generation and distribution with emphasis on generating plants and substations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

LNWK1311 - Climbing Skills

Course Title

Climbing Skills

Academic Level

Undergraduate

Description

Theory and application of pole climbing. Includes safety, climbing techniques, tool inspection, poles inspection, personal protective equipment, and fall protection.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

LNWK1331 - Transformer Connections

Course Title

Transformer Connections

Academic Level

Undergraduate

Description

An introduction to basic transformer connections and theory (including basic alternating current (AC) theory) and their direct application to single phase and three phase transformers. Students will study and practice basic transformer connections and fundamentals.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK1370 - Rigging for Electrical Lineworker

Course Title

Rigging for Electrical Lineworker

Academic Level

Undergraduate

Description

Introduction to rigging and hoisting in the line industry. Includes selecting proper rigging equipment; rope knots and splices; slings and hitches; signaling.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

LNWK1391 - Special Topics in Lineworker

Course Title

Special Topics in Lineworker

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK1470 - Electrical Safety, Tools and Calculations

Course Title

Electrical Safety, Tools and Calculations

Academic Level

Undergraduate

Description

Introduction to electrical safety and use of tools; includes selection, use, and maintenance of tools; calculations used in line worker's Industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK2024 - Troubleshooting Distribution Systems

Course Title

Troubleshooting Distribution Systems

Academic Level

Continuing Education

Description

Study of power outages and voltage complaints on distribution systems. Includes lockout-tagout procedures, safety grounds, backfeed, induced voltage, causes of outages, and analyzing voltage complaints.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

LNWK2321 - Live Line Safety

Course Title

Live Line Safety

Academic Level

Undergraduate

Description

Study of cover-up procedures and safety requirements for work on energized electrical circuits. Includes use, care, and inspection of cover-up material, recognizing nominal voltages and energized parts, approach distances, and safety.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK2322 - Distribution Line Construction

Course Title

Distribution Line Construction

Academic Level

Undergraduate

Description

Study of electric distribution line construction. Includes reading staking sheets and framing specifications, tailboard discussions, pole framing and setting, installing conductors, transformers and other line equipment, and OSHA and NESC regulations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK2324 - Troubleshooting Distribution Systems

Course Title

Troubleshooting Distribution Systems

Academic Level

Undergraduate

Description

Study of power outages and voltage complaints on distribution systems. Includes lockout-tagout procedures, safety grounds, backfeed, induced voltage, causes of outages, and analyzing voltage complaints.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

LNWK2370 - Transmission and Underground Utilities

Course Title

Transmission and Underground Utilities

Academic Level

Undergraduate

Description

This is an overview of underground and transmission components, structures, equipment, and safety that relates directly to the distribution of high voltage electricity in the Electrical Lineworker Industry.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

2026-2027 Catalog & Student Handbook

LNWK2371 - Maintenance, Testing, and Reconducting For Lineworker

Course Title

Maintenance, Testing, and Reconducting For Lineworker

Academic Level

Undergraduate

Description

Proper and safe use of testing equipment for linemen industry and maintenance of test equipment and tools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

LNWK2372 - Work Procedures and Safety in Electrical Lineworker **Course Title**

Work Procedures and Safety in Electrical Lineworker

Academic Level

Undergraduate

Description

Identification and utilization of electrical systems; including safety and work procedures. Emphasis on ropes, knots, straps, braiding and common hand signals used for directing cranes for lineman use.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - LNWK1311 - Climbing Skills (3)

Logistics & Materials Management

2026-2027 Catalog & Student Handbook

LMGT1325 - Warehouse and Distribution Center Management

Course Title

Warehouse and Distribution Center Management

Academic Level

Undergraduate

Description

Emphasis on physical distribution and total supply chain management. Includes warehouse operations management, hardware and software operations, bar codes, organizational effectiveness, just-in-time, and continuous replenishment.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

LMGT2002 - Distribution and Logistics Mgn

Course Title

Distribution and Logistics Mgn

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

LMGT2034 - Logistics **Course Title**

Logistics

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Machining

MCHN1010 - Grinders, Tool and Cutter **Course Title**

Grinders, Tool and Cutter

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MCHN1026 - Intro to Computer Aided Manufacturing **Course Title**

Intro to Computer Aided Manufacturing

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

MCHN1032 - Bench Work and Layout **Course Title**

Bench Work and Layout

Academic Level

Continuing Education

Description

An introduction to bench work and layout. Application of the use and theory of tools such as hand tools, height gages, pedestal grinders, and layout tools.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MCHN1201 - Beginning Machine Shop

Course Title

Beginning Machine Shop

Academic Level

Undergraduate

Description

Fundamental machine shop safety, math, and measurement.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

MCHN1300 - Beginning Machine Shop

Course Title

Beginning Machine Shop

Academic Level

Undergraduate

Description

Fundamental machine shop safety, math, and measurement.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MCHN1302 - Print Reading for Machining Trades

Course Title

Print Reading for Machining Trades

Academic Level

Undergraduate

Description

A study of blueprints for machining trades with emphasis on machine drawings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

MCHN1320 - Precision Tools and Measurement

Course Title

Precision Tools and Measurement

Academic Level

Undergraduate

Description

An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM)

Course Title

Introduction to Computer-Aided Manufacturing (CAM)

Academic Level

Undergraduate

Description

A study of Computer-Aided Manufacturing (CAM) software which is used to develop applications for manufacturing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MCHN1302 - Print Reading for Machining Trades (3)

Corequisites

- Concurrently enrolled in:

2026-2027 Catalog & Student Handbook

MCHN1338 - Basic Machine Shop I

Course Title

Basic Machine Shop I

Academic Level

Undergraduate

Description

A course that introduces machining fundamentals. Use basic machine tools including the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - INMT1373 - Print Reading for Industrial Equipment Technician (3)

2026-2027 Catalog & Student Handbook

MCHN1343 - Machine Shop Mathematics

Course Title

Machine Shop Mathematics

Academic Level

Undergraduate

Description

Designed to prepare the student with technical, applied mathematics that will be necessary in future machine shop-related courses.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

MCHN1371 - Engineering Computer Graphics I

Course Title

Engineering Computer Graphics I

Academic Level

Undergraduate

Description

This course covers the fundamental concepts associated with engineering computer aided design graphics; CAD. Emphasis will be placed on both dimensional analysis and design for manufacturing ability to D3 models. 3D Modeling Software will be utilized.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MCHN1416 - Machine Tool Repair

Course Title

Machine Tool Repair

Academic Level

Undergraduate

Description

Basic repair of machine tools, disassembly, parts fabrication, and assembly of machine types, including related math, blueprint reading, and safety.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

MCHN1438 - Basic Machine Shop I

Course Title

Basic Machine Shop I

Academic Level

Undergraduate

Description

A course that introduces the student to machining fundamentals. The student begins by using basic machine tools including the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventative maintenance.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

MCHN1454 - Intermediate Machining II

Course Title

Intermediate Machining II

Academic Level

Undergraduate

Description

Development of job process plan to include operation of lathes, milling machines, drill presses, and power saws. Set-up, layout, and tool maintenance is included. Emphasis on shop safety and preventative maintenance.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MCHN1438 - Basic Machine Shop I (4)

2026-2027 Catalog & Student Handbook

MCHN1493 - Special Topics in Tool and Die Maker/Technologist **Course Title**

Special Topics in Tool and Die Maker/Technologist

Academic Level

Undergraduate

Description

A study of basic stamping dies: topics including the basic terminology, blanking, piercing, bending and related basic operations to shape metal in stamping and forging operations. To operates various machine tools to make and repair molds, special machinery, tools, dies, jigs, fixtures and die cast dies including the use of CAM/CNC software.

Lecture Hours

2

Lab Hours

6

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - PLTC1343 - Mold Design and Maintenance (3)

MCHN2002 - Intermediate Milling Operation **Course Title**

Intermediate Milling Operation

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MCHN2003 - Fund of Comp Num Cont Mach

Course Title

Fund of Comp Num Cont Mach

Academic Level

Continuing Education

Description

An introduction to G and M codes (RS274-D) necessary to program Computer Numerical Controlled (CNC) machines

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

MCHN2004 - Intermediate Millwright

Course Title

Intermediate Millwright

Academic Level

Continuing Education

Description

Identification of common bearings and seals. Emphasis on design and installation of seals, bearings, and couplings.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

96

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MCHN2035 - Advanced CNC Machining

Course Title

Advanced CNC Machining

Academic Level

Continuing Education

Description

The study of advanced CNC operation with an emphasis on programming and operations of machining and turning centers. CNC machines will include Fanuc, Mazak and others.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

MCHN2037 - Advanced Milling Operations

Course Title

Advanced Milling Operations

Academic Level

Continuing Education

Lecture Hours

9

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

144

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls **Course Title**

Fundamentals of Computer Numerical Controlled (CNC) Machine Controls

Academic Level

Undergraduate

Description

Programming and operation of Computer Numerical Controlled (CNC) machine shop equipment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Corequisites

- Completed or concurrently enrolled in:
 - MCHN2344 - Computerized Numerical Control Programming (3)

2026-2027 Catalog & Student Handbook

MCHN2305 - Millwright III

Course Title

Millwright III

Academic Level

Undergraduate

Description

An introduction to bearings and seals. Identification of common bearings and seals. Emphasis on design and installation of seals and bearings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

96

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:

2026-2027 Catalog & Student Handbook

MCHN2335 - Advanced CNC Machining

Course Title

Advanced CNC Machining

Academic Level

Undergraduate

Description

The study of advanced CNC operation with an emphasis on programming and operations of machining and turning centers.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)

2026-2027 Catalog & Student Handbook

MCHN2338 - Advanced Computer-Aided Manufacturing (CAM)

Course Title

Advanced Computer-Aided Manufacturing (CAM)

Academic Level

Undergraduate

Description

Advanced techniques in Computer-Aided Manufacturing (CAM).

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)

2026-2027 Catalog & Student Handbook

MCHN2341 - Advanced Machining I

Course Title

Advanced Machining I

Academic Level

Undergraduate

Description

A study of advanced lathe and milling operations. Emphasis on advanced cutting operations of the lathe and milling machines, including the use of special tooling, bench assembly, and materials identification.

Lecture Hours

1

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MCHN1454 - Intermediate Machining II (4)

2026-2027 Catalog & Student Handbook

MCHN2344 - Computerized Numerical Control Programming

Course Title

Computerized Numerical Control Programming

Academic Level

Undergraduate

Description

An introduction to G and M codes (RS274-D) necessary to program Computer Numerical Controlled (CNC) machines.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete all of the following
 - Complete the following:
 - MCHN1302 - Print Reading for Machining Trades (3)
 - Completed or concurrently enrolled in:
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)

2026-2027 Catalog & Student Handbook

MCHN2435 - Advanced CNC Machining

Course Title

Advanced CNC Machining

Academic Level

Undergraduate

Description

Advanced CNC operation with an emphasis on programming and operations of machining and turning centers.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)

2026-2027 Catalog & Student Handbook

MCHN2441 - Advanced Machining I

Course Title

Advanced Machining I

Academic Level

Undergraduate

Description

Advanced lathe and milling operations. Emphasis on advanced cutting operations of the lathe and milling machines, including the use of special tooling, bench assembly, and materials identification.

Lecture Hours

2

Lab Hours

6

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MCHN1454 - Intermediate Machining II (4)

MCHN2444 - Computerized Numerical Control Programmi CNC Programming (2-6-4)

Course Title

Computerized Numerical Control Programmi CNC Programming (2-6-4)

Academic Level

Undergraduate

Description

An introduction to G and M codes (RS274-D) necessary to program Computer Numerical Controlled (CNC) machines.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

MCHN2445 - Advanced Machining II

Course Title

Advanced Machining II

Academic Level

Undergraduate

Description

Advanced milling, grinding, and lathe operations to tolerance dimensions. Emphasis on job planning and advanced uses of precision measuring instruments.

Lecture Hours

2

Lab Hours

6

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MCHN2441 - Advanced Machining I (4)

2026-2027 Catalog & Student Handbook

MCHN2447 - Specialized Tools and Fixtures

Course Title

Specialized Tools and Fixtures

Academic Level

Undergraduate

Description

An advanced course in the designing and building of special tools, such as jigs, fixtures, punch press dies, and molds. Machining and assembling of a production tool using conventional machine shop equipment. Application of production tool theory, care, and maintenance.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MCHN1454 - Intermediate Machining II (4)

2026-2027 Catalog & Student Handbook

MCHN2471 - Specialized Equipment and Processes

Course Title

Specialized Equipment and Processes

Academic Level

Undergraduate

Description

An advanced course that incorporates conventional and computer numerical control equipment. Design and fabricate fixtures. Use metrology equipment and reverse engineering. Manufacture a project that shows proficiency in a variety of machining equipment and processes.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MCHN1438 - Basic Machine Shop I (4)

Manufacturing Engineering Tech

2026-2027 Catalog & Student Handbook

MFGT1406 - Mechanical Principles in Automated Manufacturing **Course Title**

Mechanical Principles in Automated Manufacturing

Academic Level

Undergraduate

Description

Overview of mechanical principles used in automated manufacturing. Includes common measurement methods, engineering drawings, and mechanical methods used in automated manufacturing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

MFGT2459 - Industrial Automation II **Course Title**

Industrial Automation II

Academic Level

Undergraduate

Description

Advanced topics in automated manufacturing. Includes electrical and electronic principles, electro-pneumatic and electro-hydraulic controls, logic control methods, and basic programming techniques.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

Marketing

MRKG1000 - Customer Service **Course Title**

Customer Service

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

26

Semester Credit Hours

0

MRKG1001 - Customer Relations **Course Title**

Customer Relations

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MRKG1011 - Principles of Marketing

Course Title

Principles of Marketing

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

MRKG1301 - Customer Relationship Management

Course Title

Customer Relationship Management

Academic Level

Undergraduate

Description

General principles of customer relationship management including skills, knowledge, attitudes, and behaviors.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MRKG2033 - Principles of Selling **Course Title**

Principles of Selling

Academic Level

Continuing Education

Description

Overview of the selling process. Identification of the elements of the communication process between buyers and sellers. Examination of the legal and ethical issues of organizations which affect salespeople.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

MRKG2349 - Advertising and Sales Promotion

Course Title

Advertising and Sales Promotion

Academic Level

Undergraduate

Description

Integrated marketing communications. Includes advertising principles and practices. Emphasizes multi-media of persuasive communication including buyer behavior, budgeting, and regulatory constraints.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1302 - Digital Imaging I (3)

Mathematics

2026-2027 Catalog & Student Handbook

MATH1314 - College Algebra (3 SCH version)

Course Title

College Algebra (3 SCH version)

Academic Level

Undergraduate

Description

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

MATH1316 - Plane Trigonometry

Course Title

Plane Trigonometry

Academic Level

Undergraduate

Description

In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH1325 - Calculus for Business & Social Sciences

Course Title

Calculus for Business & Social Sciences

Academic Level

Undergraduate

Description

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH1332 - Contemporary Mathematics (Quantitative Reasoning)

Course Title

Contemporary Mathematics (Quantitative Reasoning)

Academic Level

Undergraduate

Description

Intended for Non STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH1342 - Elementary Statistical Methods

Course Title

Elementary Statistical Methods

Academic Level

Undergraduate

Description

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

MATH1350 - Math - Teachers I Fundamentals of Math I

Course Title

Math - Teachers I Fundamentals of Math I

Academic Level

Undergraduate

Description

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number systems with an emphasis on problem solving and critical thinking.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH1351 - Fundamentals of Mathematics II

Course Title

Fundamentals of Mathematics II

Academic Level

Undergraduate

Description

Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 through 8) teacher certification.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH2312 - Pre-Calculus Math (3 SCH version)

Course Title

Pre-Calculus Math (3 SCH version)

Academic Level

Undergraduate

Description

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 credits from the following:
 - MATH1314 - College Algebra (3 SCH version) (3)
 - MATH1316 - Plane Trigonometry (3)

2026-2027 Catalog & Student Handbook

MATH2313 - Calculus I

Course Title

Calculus I

Academic Level

Undergraduate

Description

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH2318 - Linear Algebra

Course Title

Linear Algebra

Academic Level

Undergraduate

Description

Introduces and provides models for application of the concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrices; determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH2320 - Differential Equations (3 SCH version)

Course Title

Differential Equations (3 SCH version)

Academic Level

Undergraduate

Description

Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MATH2414 - Calculus II (4 SCH version) (4)

2026-2027 Catalog & Student Handbook

MATH2342 - Elementary Statistical Methods

Course Title

Elementary Statistical Methods

Academic Level

Undergraduate

Description

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MATH2413 - Calculus I (4 SCH version)

Course Title

Calculus I (4 SCH version)

Academic Level

Undergraduate

Description

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

4

Semester Credit Hours

4

Prerequisites

- MATH 2413 prerequisite MATH 1316 or MATH 2312 or MATH 2412

2026-2027 Catalog & Student Handbook

MATH2414 - Calculus II (4 SCH version)

Course Title

Calculus II (4 SCH version)

Academic Level

Undergraduate

Description

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MATH2413 - Calculus I (4 SCH version) (4)

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MATH2415 - Calculus III (4 SCH version)

Course Title

Calculus III (4 SCH version)

Academic Level

Undergraduate

Description

Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MATH2414 - Calculus II (4 SCH version) (4)

2026-2027 Catalog & Student Handbook

MATH3MTH - Gen Ed Mathematics Elective

Course Title

Gen Ed Mathematics Elective

Academic Level

Undergraduate

Description

Gen Ed Mathematics Electives for Math Majors

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Mechatronics

2026-2027 Catalog & Student Handbook

MECH1370 - Introduction to Mechatronics

Course Title

Introduction to Mechatronics

Academic Level

Undergraduate

Description

Overview of mechatronics applications including controls, programming, electrical, and mechanical systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MECH1371 - Industry Digital Devices

Course Title

Industry Digital Devices

Academic Level

Undergraduate

Description

A course interfacing digital devices using logic circuits, metering equipment and different numbering systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1303 - DC Circuits (3)

2026-2027 Catalog & Student Handbook

MECH1372 - Basic Programmable Logic Controllers

Course Title

Basic Programmable Logic Controllers

Academic Level

Undergraduate

Description

Basic course in programmable control systems with emphasis on basic program techniques to include hardware identification, basic ladder programming and PLC communications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

MECH1373 - Motion Control

Course Title

Motion Control

Academic Level

Undergraduate

Description

This course explores theoretical concepts in motor control. Emphasis in 3 phase across the line control, system design, protection control devices, wiring and troubleshooting. In-depth coverage of power and control voltages.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

MECH1471 - Hydraulic and Pneumatic Systems

Course Title

Hydraulic and Pneumatic Systems

Academic Level

Undergraduate

Description

A course that focuses on Hydraulic and Pneumatic power technology to include valves, actuators, pumps, motors and gauges to communicate with control devices in order to operate the system using network devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

MECH2370 - Industrial Process Controls

Course Title

Industrial Process Controls

Academic Level

Undergraduate

Description

Introduction to key concepts in automatic control and instrumentation of process plants. Applying industrial protocols (e.g. fieldbus, ethernet, modbus, profinet, profibus) to change controller parameters and read data from the controller. Use smart transmitters to relay instrumentation and final control elements performance status.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

MECH2372 - Essentials to Advance PLC

Course Title

Essentials to Advance PLC

Academic Level

Undergraduate

Description

Advanced applications of programmable logic controllers as used in industrial environments including concepts of networking, data collection, and troubleshooting of PLCs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MECH1372 - Basic Programmable Logic Controllers (3)

2026-2027 Catalog & Student Handbook

MECH2373 - Industry 4.0 Project

Course Title

Industry 4.0 Project

Academic Level

Undergraduate

Description

Students will examine how emerging technologies integrate with traditional industrial systems to improve efficiency, flexibility, and quality. Topics include smart sensors, real-time data monitoring, digital twins, additive manufacturing, and IoT network devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1301 - Programmable Logic Controllers (3)

2026-2027 Catalog & Student Handbook

MECH2374 - Robotics Communication

Course Title

Robotics Communication

Academic Level

Undergraduate

Description

Principles of robotics to include hardware/software components, interfacing, programing and troubleshooting of the robotic system. Course instruct students to program a robot to perform automated task.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MECH2375 - Production Control

Course Title

Production Control

Academic Level

Undergraduate

Description

This course defines the ability to apply technology in the principles and techniques in the design, planning, hardware and software of Industrial Production Control Systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)

2026-2027 Catalog & Student Handbook

MECH2378 - Internship-Mechatronics Technology

Course Title

Internship-Mechatronics Technology

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 160 hours total in the semester. It is recommended that a student completes 10 contact hours per week for the 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

10

Total Contact Hours

160

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

MECH2471 - Industrial Control Devices

Course Title

Industrial Control Devices

Academic Level

Undergraduate

Description

This course covers the principles of control devices used in industry. Topics include the design, development, and current applications of automated control device systems including their configuration, operation, and control. Upon completion students will be able to wire and program different control devices including PLC's and variable frequency drives, monitoring relays, protection relays and other devices locally at the device and through communications protocols.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - MECH1373 - Motion Control (3)

2026-2027 Catalog & Student Handbook

MECH2472 - Communication Protocols

Course Title

Communication Protocols

Academic Level

Undergraduate

Description

An introductory course to communications protocols in order to address industrial needs for connecting devices as they apply to industry. Industrial and traditional communication working together with emerging technologies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Music

2026-2027 Catalog & Student Handbook

MUSI1306 - Music Appreciation

Course Title

Music Appreciation

Academic Level

Undergraduate

Description

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances. (Does not apply to a music major degree.)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Non-Course Base Math

NCBM0040 - Pedal to the Metal

Course Title

Pedal to the Metal

Academic Level

Undergraduate

Description

A refresher designed to help students improve their score on the math portion of the TSI Assessment.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

4

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

NCBM0100 - BASE Math Lab

Course Title

BASE Math Lab

Academic Level

Undergraduate

Description

This course supports students in DMTH 0100.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

0

Semester Credit Hours

0

Prerequisites

- Math Level 1 or Level 2 (Algebra) Placement

Corequisites

- Concurrently enrolled in:
 - Course Not Found

2026-2027 Catalog & Student Handbook

NCBM0314 - Math Basics for College Algebra

Course Title

Math Basics for College Algebra

Academic Level

Undergraduate

Description

Development of math and higher order thinking skills necessary for college readiness.

Additional Course Information

This is a corequisite course paired with MATH 1314 College Algebra. This course is designed to provide supplemental instruction with just-in-time remediation as needed to help students master the concepts and complete the course outcomes for MATH 1314 College Algebra.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

NCBM0316 - Math Basics for Trigonometry

Course Title

Math Basics for Trigonometry

Academic Level

Undergraduate

Description

Development of math and higher order thinking skills necessary for college readiness.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

0

Semester Credit Hours

0

Prerequisites

Semester 1



- PR: Level 3 Placement or DMTH 0100

Corequisites

Semester 1



- Concurrently enrolled in:
 - MATH1316 - Plane Trigonometry (3)

2026-2027 Catalog & Student Handbook

NCBM0332 - Math Basics for Contemporary Math

Course Title

Math Basics for Contemporary Math

Academic Level

Undergraduate

Description

Development of math and higher order thinking skills necessary for college readiness.

Additional Course Information

This is a corequisite course paired with *MATH 1332 Contemporary Math*. This course is designed to provide supplemental instruction with just-in-time remediation as needed to help students master the concepts and complete the course outcomes for *MATH 1332 Contemporary Math*.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

Semester Credit Hours

0

Nursing Information Systems

RNSG1046 - Legal Nurse Consulting

Course Title

Legal Nurse Consulting

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

RNSG1210 - Introduction to Community-Based Nursing **Course Title**

Introduction to Community-Based Nursing

Academic Level

Undergraduate

Description

Overview of the delivery of nursing care in a variety of community-based settings to promote health; application of clinical reasoning processes and clinical judgment, focusing on the examination of concepts and theories relevant to community-based nursing; and development of judgment, skill, and professional values within a legal/ethical framework.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

RNSG1227 - Transition to Professional Nursing

Course Title

Transition to Professional Nursing

Academic Level

Undergraduate

Description

Content includes health promotion, expanded assessment, analysis of data, clinical reasoning processes and clinical judgment, pharmacology, interdisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the lifespan. This course lends itself to either a blocked or integrated approach.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

Corequisites

- Completed or concurrently enrolled in:
 - RNSG1261 - Clinical - Registered Nursing/Registered Nurse (2)

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RNSG1261 - Clinical - Registered Nursing/Registered Nurse

Course Title

Clinical - Registered Nursing/Registered Nurse

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

8

Total Contact Hours

128

Credits

2

Semester Credit Hours

2

Corequisites

- Completed or concurrently enrolled in:
 - RNSG1227 - Transition to Professional Nursing (2)

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RNSG1300 - Health Assessment Across the Lifespan

Course Title

Health Assessment Across the Lifespan

Academic Level

Undergraduate

Description

Development of skills and techniques required for a comprehensive nursing health assessment of patients across the lifespan. Includes assessment of patients' health promotion and maintenance, illness and injury prevention and restoration, and application of the nursing process within a legal/ethical framework. This course lends itself to either a blocked or integrated approach.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RNSG1301 - Pharmacology

Course Title

Pharmacology

Academic Level

Undergraduate

Description

Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of drug classifications. Content includes the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. This course lends itself to either a blocked or integrated approach.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RNSG1343 - Complex Concepts of Adult Health

Course Title

Complex Concepts of Adult Health

Academic Level

Undergraduate

Description

Integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession in the care of adult patients and families with complex medical-surgical health care needs associated with body systems. Emphasis on complex knowledge, judgments, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Corequisites

- Concurrently enrolled in:
 - RNSG2162 - Clinical - Registered Nursing/Registered Nurse (1)

2026-2027 Catalog & Student Handbook

RNSG1412 - Nursing Care of the Childbearing and Childrearing Family

Course Title

Nursing Care of the Childbearing and Childrearing Family

Academic Level

Undergraduate

Description

Study of the concepts related to the provision of nursing care for childbearing and childrearing families. Application of clinical reasoning processes and clinical judgment including a focus on the childbearing family during the prenatal, perinatal, postnatal periods and the childrearing family from birth through adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

Corequisites

- Completed or concurrently enrolled in:
 - RNSG2262 - Clinical - Registered Nursing/Registered Nurse (2)

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RNSG1463 - Clinical - Registered Nursing/Registered Nurse **Course Title**

Clinical - Registered Nursing/Registered Nurse

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

12

Total Contact Hours

192

Credits

4

Semester Credit Hours

4

Corequisites

- Completed or concurrently enrolled in:
 - RNSG2432 - Enhanced Concepts of Adult Health (4)

RNSG2017 - Dialysis Training-Theory **Course Title**

Dialysis Training-Theory

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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RNSG2162 - Clinical - Registered Nursing/Registered Nurse

Course Title

Clinical - Registered Nursing/Registered Nurse

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

6

Total Contact Hours

96

Credits

1

Semester Credit Hours

1

Corequisites

- Concurrently enrolled in:
 - RNSG1343 - Complex Concepts of Adult Health (3)

2026-2027 Catalog & Student Handbook

RNSG2213 - Mental Health Nursing

Course Title

Mental Health Nursing

Academic Level

Undergraduate

Description

Principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of patients and their families. This course lends itself to a blocked approach.

Lecture Hours

1

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

2

Semester Credit Hours

2

Corequisites

- Concurrently enrolled in:
 - RNSG2262 - Clinical - Registered Nursing/Registered Nurse (2)

2026-2027 Catalog & Student Handbook

RNSG2221 - Professional Nursing: Leadership and Management **Course Title**

Professional Nursing: Leadership and Management

Academic Level

Undergraduate

Description

Exploration of leadership and management principles applicable to the roles of the professional nurse. Includes application of knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

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RNSG2230 - Professional Nursing Review and Licensure Preparation

Course Title

Professional Nursing Review and Licensure Preparation

Academic Level

Undergraduate

Description

Review of concepts required for licensure examination and entry into the practice of professional nursing. Includes review of application process of National Council Licensure Examination for Registered Nurses (NCLEX-RN) test plan, assessment of knowledge deficits, and remediation. This course lends itself to either a blocked or integrated approach.

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

2

Semester Credit Hours

2

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RNSG2262 - Clinical - Registered Nursing/Registered Nurse

Course Title

Clinical - Registered Nursing/Registered Nurse

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

2

Semester Credit Hours

2

Corequisites

- Concurrently enrolled in:
 - RNSG1412 - Nursing Care of the Childbearing and Childrearing Family (4)
 - RNSG2213 - Mental Health Nursing (2)

2026-2027 Catalog & Student Handbook

RNSG2432 - Enhanced Concepts of Adult Health

Course Title

Enhanced Concepts of Adult Health

Academic Level

Undergraduate

Description

Enhanced concepts and skills for developing professional competencies in complicated nursing care situations involving adult patients/families with multiple body system problems. Emphasizes critical thinking, clinical reasoning, and determining legal/ethical values for optimization of patient care in intermediate and acute care settings. This course lends itself to a blocked approach.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

Corequisites

- Completed or concurrently enrolled in:
 - RNSG1463 - Clinical - Registered Nursing/Registered Nurse (4)

Pharmacy Technician/Assistant

2026-2027 Catalog & Student Handbook

PHRA1060 - Pharmacy Technician/Asst Course Title

Pharmacy Technician/Asst

Academic Level

Continuing Education

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

50

Semester Credit Hours

0

PHRA1091 - Pharmacy Course Title

Pharmacy

Academic Level

Continuing Education

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

70

Semester Credit Hours

0

Philosophy

2026-2027 Catalog & Student Handbook

PHIL1301 - Introduction to Philosophy

Course Title

Introduction to Philosophy

Academic Level

Undergraduate

Description

A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

PHIL1304 - Introduction to World Religions

Course Title

Introduction to World Religions

Academic Level

Undergraduate

Description

A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PHIL2303 - Introduction to Formal Logic

Course Title

Introduction to Formal Logic

Academic Level

Undergraduate

Description

The purpose of the course is to introduce the student to symbolic logic, including syllogisms, propositional and predicate logic, and logical proofs in a system of rules.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

PHIL2306 - Introduction to Ethics

Course Title

Introduction to Ethics

Academic Level

Undergraduate

Description

The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Phlebotomy(Blood Collection)

PLAB1023 - Phlebotomy **Course Title**

Phlebotomy

Academic Level

Continuing Education

Description

Skill development in the performance of a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, proper patient identification, labeling of specimens and quality assurance, specimen handling, processing, and accessioning. Topics include professionalism, ethics, and medical terminology.

Lecture Hours

5

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

80

Semester Credit Hours

0

PLAB2000 - Professional Development Phleb **Course Title**

Professional Development Phleb

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

Physics

2026-2027 Catalog & Student Handbook

PHYS1101 - College Physics Laboratory I

Course Title

College Physics Laboratory I

Academic Level

Undergraduate

Description

This laboratory-based course accompanies PHYS 1301, College Physics I. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; emphasis will be on problem solving.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Prerequisites

- Completed or concurrently enrolled in:
 - PHYS1301 - College Physics I (lecture) (3)

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PHYS1102 - College Physics Lab II

Course Title

College Physics Lab II

Academic Level

Undergraduate

Description

This laboratory-based course accompanies PHYS 1302, College Physics II. Laboratory activities will reinforce fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - PHYS1302 - College Physics II (lecture) (3)

2026-2027 Catalog & Student Handbook

PHYS1110 - Elementary Physics

Course Title

Elementary Physics

Academic Level

Undergraduate

Description

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. May or may not include a laboratory.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

PHYS1115 - Physical Science Lab I

Course Title

Physical Science Lab I

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - PHYS1315 - Physical Science I (lecture) (3)

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PHYS1117 - Physical Science Laboratory II

Course Title

Physical Science Laboratory II

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - PHYS1317 - Physical Science II (3)

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PHYS1301 - College Physics I (lecture)

Course Title

College Physics I (lecture)

Academic Level

Undergraduate

Description

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - MATH1314 - College Algebra (3 SCH version) (3)
 - MATH1316 - Plane Trigonometry (3)
 - MATH2312 - Pre-Calculus Math (3 SCH version) (3)

Corequisites

- Completed or concurrently enrolled in:
 - PHYS1101 - College Physics Laboratory I (1)

2026-2027 Catalog & Student Handbook

PHYS1302 - College Physics II (lecture)

Course Title

College Physics II (lecture)

Academic Level

Undergraduate

Description

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics; with emphasis on problem solving.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - PHYS1301 - College Physics I (lecture) (3)
 - PHYS1401 - College Physics I (4)

Corequisites

- Completed or concurrently enrolled in:
 - PHYS1102 - College Physics Lab II (1)

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PHYS1310 - Elementary Physics

Course Title

Elementary Physics

Academic Level

Undergraduate

Description

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. May or may not include a laboratory.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

PHYS1315 - Physical Science I (lecture)

Course Title

Physical Science I (lecture)

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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PHYS1317 - Physical Science II

Course Title

Physical Science II

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology. May or may not include a laboratory.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

PHYS1401 - College Physics I

Course Title

College Physics I

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of PHYS 1301 (lecture) and PHYS 1101 (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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PHYS1402 - College Physics II

Course Title

College Physics II

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of PHYS 1302 (lecture) and PHYS 1102 (lab), including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

PHYS1410 - Elementary Physics

Course Title

Elementary Physics

Academic Level

Undergraduate

Description

Conceptual topics and algebra-level problem solving in a survey course of basic physics principles intended for non-science majors. This course includes a laboratory.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

PHYS1415 - Physical Science I

Course Title

Physical Science I

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

PHYS1417 - Physical Science II Physical Science II

Course Title

Physical Science II Physical Science II

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

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PHYS2125 - University Physics Laboratory I (lab)

Course Title

University Physics Laboratory I (lab)

Academic Level

Undergraduate

Description

Basic laboratory experiments supporting theoretical principles presented in PHYS 2325 involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - PHYS2325 - University Physics I (lecture) (3)

2026-2027 Catalog & Student Handbook

PHYS2126 - University Physics Laboratory II (lab)

Course Title

University Physics Laboratory II (lab)

Academic Level

Undergraduate

Description

Laboratory experiments supporting theoretical principles presented in PHYS 2326 involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

Corequisites

- Completed or concurrently enrolled in:
 - PHYS2326 - University Physics II (lecture) (3)

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PHYS2325 - University Physics I (lecture)

Course Title

University Physics I (lecture)

Academic Level

Undergraduate

Description

Fundamental principles of physics, using calculus, for science, computer science, and engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems and thermodynamics; and emphasis on problem solving.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MATH2413 - Calculus I (4 SCH version) (4)

Corequisites

- Completed or concurrently enrolled in:
 - PHYS2125 - University Physics Laboratory I (lab) (1)

2026-2027 Catalog & Student Handbook

PHYS2326 - University Physics II (lecture)

Course Title

University Physics II (lecture)

Academic Level

Undergraduate

Description

Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PHYS2325 - University Physics I (lecture) (3)
 - MATH2414 - Calculus II (4 SCH version) (4)

Corequisites

- Completed or concurrently enrolled in:
 - PHYS2126 - University Physics Laboratory II (lab) (1)

2026-2027 Catalog & Student Handbook

PHYS2425 - University Physics I

Course Title

University Physics I

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of PHYS 2325 University Physics I Lecture and PHYS 2125 University Physics I Lab, including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

PHYS2426 - University Physics II

Course Title

University Physics II

Academic Level

Undergraduate

Description

This lecture and lab course should combine all of the elements of 2326 University Physics II Lecture and 2126 University Physics II Lab, including the learning outcomes listed for both courses.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Pipefitting

PFPB1007 - Introduction to Pipefitting **Course Title**

Introduction to Pipefitting

Academic Level

Continuing Education

Description

Instruction in pipefitting hand and power tools, ladder, and scaffold safety motorized equipment, and underground pipe installation.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

PFPB1020 - Tradesman Plumber Training Rev **Course Title**

Tradesman Plumber Training Rev

Academic Level

Continuing Education

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

18

Semester Credit Hours

0

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PFPB1024 - Journeyman Plumber Training Review

Course Title

Journeyman Plumber Training Review

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

PFPB1051 - Commercial and Industrial Gas Installati

Course Title

Commercial and Industrial Gas Installati

Academic Level

Continuing Education

Description

Principles, code requirements, and practical knowledge needed to identify, design, and install commercial and industrial gas supply systems. Includes safety procedures for installation and testing.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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PFPB1306 - Basic Blueprint Reading for Plumbers

Course Title

Basic Blueprint Reading for Plumbers

Academic Level

Undergraduate

Description

Introduction to reading and interpreting working drawings. Includes symbols and abbreviations and the use of sketching techniques to create isometric and orthographic drawings of drain, waste, vent, hot and cold water, and gas piping components.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PFPB1319 - Commercial Plumbing I

Course Title

Commercial Plumbing I

Academic Level

Undergraduate

Description

Skills, procedures, and techniques used in the installation of hot and cold potable water supply systems and drain, waste, and vent (DWV) systems in commercial buildings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PFPB1323 - Plumbing Codes I (3)
 - PFPB1306 - Basic Blueprint Reading for Plumbers (3)
 - PFPB2349 - Field Measuring, Sketching, and Layout (3)

2026-2027 Catalog & Student Handbook

PFPB1321 - Plumbing Maintenance and Repair

Course Title

Plumbing Maintenance and Repair

Academic Level

Undergraduate

Description

Instruction in the practices and procedures employed by a plumber including public relations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PFPB1323 - Plumbing Codes I

Course Title

Plumbing Codes I

Academic Level

Undergraduate

Description

State and local plumbing codes and the application of potable water, waste water, and gas systems relating to residential and light commercial settings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PFPB1347 - Backflow Prevention

Course Title

Backflow Prevention

Academic Level

Undergraduate

Description

Principles, practices, and regulations of backflow. Includes backpressure, public health, laws and responsibilities, mechanics and use of backflow devices, and equipment testing used in backflow devices.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PFPB1682 - Cooperative Education - Plumbing Technology/Plumber **Course Title**

Cooperative Education - Plumbing Technology/Plumber

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Additional Course Information

Students are required to complete 640 total contact hours in the semester. The student should complete 39 external contact hours per week and 1 lecture contact hour per week with a contact hour being at least 55 minutes.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

2026-2027 Catalog & Student Handbook

PFPB1683 - Cooperative Education - Plumbing Technology/Plumber **Course Title**

Cooperative Education - Plumbing Technology/Plumber

Academic Level

Undergraduate

Description

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

39

Total Contact Hours

640

Credits

6

Semester Credit Hours

6

PFPB2001 - Plumbing Review **Course Title**

Plumbing Review

Academic Level

Continuing Education

Description

License renewal course. Includes laws and rules, cross-connection control and backflow prevention, mold contamination, fall protection, hepatitis protection, and copper tubing and piping.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

6

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

PFPB2008 - Piping Standards and Materials

Course Title

Piping Standards and Materials

Academic Level

Continuing Education

Description

Identification, description, and application of piping standards and specifications. Includes identification and use of various metallic and non-metallic piping materials, identification and installation of valves, and material take-offs.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

PFPB2308 - Piping Standards and Materials

Course Title

Piping Standards and Materials

Academic Level

Undergraduate

Description

Identification, description, and application of piping standards and specifications. Includes identification and use of various metallic and non-metallic piping materials, identification and installation of valves, and material take-offs.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PFPB2309 - Residential Construction Plumbing I

Course Title

Residential Construction Plumbing I

Academic Level

Undergraduate

Description

Skill development in the procedures and techniques employed by a plumber in the rough-in and top-out stages of a new home or the remodeling of an older home.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PFPB2315 - Intermediate Technologies for Piping Trades

Course Title

Intermediate Technologies for Piping Trades

Academic Level

Undergraduate

Description

Piping techniques and materials within the pipe trades. Includes pipefitting procedures for applications and upgrades on techniques and practices designed to deal with federal, state, and local environmental and safety regulations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PFPB2336 - Commercial Construction and Fixture Setting **Course Title**

Commercial Construction and Fixture Setting

Academic Level

Undergraduate

Description

Practices and procedures employed by a plumber in the common construction in a commercial building including drain, waste, and vent systems, water systems, and fixture installations.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PFPB2343 - Advanced Pipe Practices **Course Title**

Advanced Pipe Practices

Academic Level

Undergraduate

Description

Identification, installation, and testing of steam traps and steam trap station components; valve identification, application, and maintenance; identification, storage, and handling of in-line specialties; hydrostatic testing of process piping.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PFPB2345 - Residential Construction Plumbing II **Course Title**

Residential Construction Plumbing II

Academic Level

Undergraduate

Description

Installation of residential plumbing fixtures used in single- and multi-family housing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PFPB2309 - Residential Construction Plumbing I (3)

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PFPB2349 - Field Measuring, Sketching, and Layout

Course Title

Field Measuring, Sketching, and Layout

Academic Level

Undergraduate

Description

Field dimensioning, measuring, sketching, and layout of future process piping and the use, care, and setup of transit and level.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PFPB2357 - Plumbing Codes II

Course Title

Plumbing Codes II

Academic Level

Undergraduate

Description

The application of state and local plumbing codes to potable water, waste water, and gas systems relating to residential and commercial settings.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Plastics Technology

PLTC1343 - Mold Design and Maintenance **Course Title**

Mold Design and Maintenance

Academic Level

Undergraduate

Description

A study of the basic design parameters of plastic injection molds including mold flow, nominal walls projection, depressions, ejector systems, runners, gates, parting lines, and general mold configurations. Emphasis on maintenance techniques on in house molds

Lecture Hours

2

Lab Hours

4

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MCHN1454 - Intermediate Machining II (4)

Practical Nurse

2026-2027 Catalog & Student Handbook

VNSG1119 - Leadership and Professional Development

Course Title

Leadership and Professional Development

Academic Level

Undergraduate

Description

Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

VNSG1219 - Leadership and Professional Development

Course Title

Leadership and Professional Development

Academic Level

Undergraduate

Description

Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

VNSG1230 - Maternal-Neonatal Nursing

Course Title

Maternal-Neonatal Nursing

Academic Level

Undergraduate

Description

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process and clinical judgement model in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

VNSG1261 - Clinical - Licensed Practical/Vocational Nurse Training

Course Title

Clinical - Licensed Practical/Vocational Nurse Training

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Students are required to complete a total of 192 hours in the semester. It is recommended that student completes 12 hours a week for 15 weeks for the 15 hour semester. Please see the attendance policy in the LVN Student Handbook.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

12

Total Contact Hours

192

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

VNSG1304 - Foundations of Nursing

Course Title

Foundations of Nursing

Academic Level

Undergraduate

Description

Introduction to the nursing profession including history, standards of practice, legal and ethical issues, and role of the vocational nurse. Topics include mental health, therapeutic communication, cultural and spiritual diversity, patient preference, nursing process using clinical judgement model, and holistic awareness.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

VNSG1327 - Essentials of Medication Administration

Course Title

Essentials of Medication Administration

Academic Level

Undergraduate

Description

General principles of medication administration including determination of dosage, preparation, safe administration, and documentation of multiple forms of drugs. Instruction includes various systems of measurement.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

VNSG1329 - Medical-Surgical Nursing I

Course Title

Medical-Surgical Nursing I

Academic Level

Undergraduate

Description

Application of the nursing process and clinical judgement model to the care of the adult patient experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

VNSG1331 - Pharmacology

Course Title

Pharmacology

Academic Level

Undergraduate

Description

Fundamentals of medications and their diagnostic, therapeutic, and curative effects. Includes nursing interventions utilizing the nursing process and clinical judgement model.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

VNSG1334 - Pediatrics

Course Title

Pediatrics

Academic Level

Undergraduate

Description

Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and developmental needs utilizing the nursing process and clinical judgement model.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

VNSG1402 - Applied Nursing Skills I

Course Title

Applied Nursing Skills I

Academic Level

Undergraduate

Description

Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles and the clinical judgement model.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

VNSG1432 - Medical-Surgical Nursing II

Course Title

Medical-Surgical Nursing II

Academic Level

Undergraduate

Description

Continuation of Medical-Surgical Nursing I with application of the nursing process and clinical judgement model to the care of the adult patient experiencing medical-surgical conditions along the health-illness continuum in a variety of health care settings.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

VNSG1462 - Clinical - Licensed Practical/Vocational Nurse Training

Course Title

Clinical - Licensed Practical/Vocational Nurse Training

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Students are required to complete a total of 192 hours in the semester. It is recommended that student completes 12 hours a week for 15 weeks for the 15 hour semester. Please see the attendance policy in the LVN Student Handbook.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

12

Total Contact Hours

192

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

VNSG2050 - NCLEX-PN Review Course

Course Title

NCLEX-PN Review Course

Academic Level

Continuing Education

Description

Review of nursing knowledge and skills, study skills, stress management techniques, and test taking strategies to prepare the graduate vocational nurse (GVN) to take the National Licensure Examination-Practical Nurse (NCLEX-PN).

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

VNSG2413 - Applied Nursing Skills II

Course Title

Applied Nursing Skills II

Academic Level

Undergraduate

Description

Application of nursing skills to meet complex patient needs utilizing the nursing process, clinical reasoning/judgment model, and related scientific principles.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

VNSG2463 - Clinical - Licensed Practical/Vocational Nurse Training

Course Title

Clinical - Licensed Practical/Vocational Nurse Training

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Differentiated Essential Competencies (DEC): DEC's are defined as competencies determined by the Texas Board of Nursing for each level of nursing education that should typically be achieved by exit from the program. The competencies document the background knowledge which can be used upon exit from the program to progress from beginner to expert. The DEC framework consists of knowledge and clinical judgment and behaviors in the following four nursing roles: Member of the Profession; Provider of Patient Centered Care; Patient-Safety Advocate; Member of the Health Care Team. The Course Competencies can be found in the Vocational Nursing Student Handbook.

Students are required to complete a total of 192 hours in the semester. Please see the attendance policy in the LVN Student Handbook.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

12

Total Contact Hours

192

Credits

4

Semester Credit Hours

4

Pre-Engineering

2026-2027 Catalog & Student Handbook

ENGR1201 - Introduction to Engineering

Course Title

Introduction to Engineering

Academic Level

Undergraduate

Description

An introduction to the engineering profession with emphasis on technical communication and team-based engineering design.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

Prerequisites

- Complete the following:
 - MATH1314 - College Algebra (3 SCH version) (3)

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ENGR1304 - Engineering Graphics I (3 Sch version)

Course Title

Engineering Graphics I (3 Sch version)

Academic Level

Undergraduate

Description

Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - MATH1314 - College Algebra (3 SCH version) (3)

2026-2027 Catalog & Student Handbook

ENGR2105 - Electrical Circuits I Laboratory

Course Title

Electrical Circuits I Laboratory

Academic Level

Undergraduate

Description

Laboratory experiments supporting theoretical principles presented in ENGR 2305 involving DC and AC circuit theory, network theorems, time, and frequency domain circuit analysis. Introduction to principles and operation of basic laboratory equipment; laboratory report preparation.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

ENGR2301 - Engineering Mechanics - Statics (3 SCH version)

Course Title

Engineering Mechanics - Statics (3 SCH version)

Academic Level

Undergraduate

Description

Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PHYS2325 - University Physics I (lecture) (3)

2026-2027 Catalog & Student Handbook

ENGR2302 - Engineering Mechanics - Dynamics (3 SCH version)

Course Title

Engineering Mechanics - Dynamics (3 SCH version)

Academic Level

Undergraduate

Description

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ENGR2301 - Engineering Mechanics - Statics (3 SCH version) (3)

2026-2027 Catalog & Student Handbook

ENGR2304 - Programming for Engineers

Course Title

Programming for Engineers

Academic Level

Undergraduate

Description

Programming principles and techniques for matrix and array operations, equation solving, and numeric simulations applied to engineering problems and visualization of engineering information; platforms include spreadsheets, symbolic algebra packages, engineering analysis software, and laboratory control software.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ENGR2305 - Electrical Circuits I

Course Title

Electrical Circuits I

Academic Level

Undergraduate

Description

Principles of electrical circuits and systems. Basic circuit elements (resistance, inductance, mutual inductance, capacitance, independent and dependent controlled voltage, and current sources). Topology of electrical networks; Kirchhoff's laws; node and mesh analysis; DC circuit analysis; operational amplifiers; transient and sinusoidal steady-state analysis; AC circuit analysis; first- and second-order circuits; Bode plots; and use of computer simulation software to solve circuit problems

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - PHYS2325 - University Physics I (lecture) (3)
 - MATH2414 - Calculus II (4 SCH version) (4)

Professional Skills and Workforce Essentials

2026-2027 Catalog & Student Handbook

HIRE1000 - Foundations for Career Success

Course Title

Foundations for Career Success

Academic Level

Undergraduate

Description

HIRE 1000 is available to all TSTC students. This course focuses on professional skills and workforce essentials: job readiness, resume writing, interview skills, soft skills, job search strategies, networking, and career planning in order to prepare students for workplace success. For TSTC students in programs participating in the TSTC Money-Back Guarantee, successful completion of HIRE 1000 Foundations for Career Success is required. Satisfactory grade completion of HIRE 1000 determines eligibility for the TSTC Money-Back Guarantee initiative.

Lecture Hours

1

Lab Hours

1

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

0

Semester Credit Hours

0

Psychology

2026-2027 Catalog & Student Handbook

PSYC1100 - Learning Framework

Course Title

Learning Framework

Academic Level

Undergraduate

Description

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Crosslisted as EDUC 1300)

Lecture Hours

1

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

PSYC2301 - General Psychology

Course Title

General Psychology

Academic Level

Undergraduate

Description

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Lecture Hours

3

Lab Hours

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Prerequisites

- PR: TSI ELAR Complete/Exempt or NCBI 0322 co-req

PSYC2314 - Lifespan Growth & Development

Course Title

Lifespan Growth & Development

Academic Level

Undergraduate

Description

Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PSYT1007 - Crisis Intervention for Victims of Sexual Assault/Abuse **Course Title**

Crisis Intervention for Victims of Sexual Assault/Abuse

Academic Level

Continuing Education

Description

INTRODUCTION TO THE PSYCHOSOCIAL ASPECTS OF SEXUAL ABUSE/ASSAULT AND INTERVIEWNTION STRATEGIES.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

PSYT1024 - Health Profession Concerns **Course Title**

Health Profession Concerns

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

7

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

PSYT1091 - Autism Recognition & Response **Course Title**

Autism Recognition & Response

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

PSYT1313 - Psychology of Personal Adjustment **Course Title**

Psychology of Personal Adjustment

Academic Level

Undergraduate

Description

Overview of personal, social, and work adjustment skills.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Quality Control

2026-2027 Catalog & Student Handbook

QTC1341 - Statistical Process Control

Course Title

Statistical Process Control

Academic Level

Undergraduate

Description

Components of statistics including techniques of collection, presentation, analysis, and interpretation of numerical data as applied to statistical control. Stresses application of correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models, and programming.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 3 credits from the following:
 - MATH1314 - College Algebra (3 SCH version) (3)
 - MATH1316 - Plane Trigonometry (3)

Reading/Writing Refresher

2026-2027 Catalog & Student Handbook

NCBI0040 - Communication Blast Off

Course Title

Communication Blast Off

Academic Level

Undergraduate

Description

A refresher designed to help students improve their score on the reading and writing portions of the TSI Assessment.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

4

Semester Credit Hours

0

NCBI0100 - BASE Reading/Writing Lab

Course Title

BASE Reading/Writing Lab

Academic Level

Undergraduate

Description

This course supports students in INRW 0100.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

NCBI0301 - Reading and Writing Basics for Composition I

Course Title

Reading and Writing Basics for Composition I

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Additional Course Information

Support learning in and completion of ENG-1301.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

0

Semester Credit Hours

0

Prerequisites

- ELAR or Reading/Writing Level 3 placement required, or student has completed INRW 0100 and NCBI 0100, or student has completed INRW 0200.

2026-2027 Catalog & Student Handbook

NCBI0305 - Reading and Writing Fundamentals for Federal Government

Course Title

Reading and Writing Fundamentals for Federal Government

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Semester Credit Hours

0

NCBI0311 - Reading and Writing Fundamentals For Technical and Business Writing

Course Title

Reading and Writing Fundamentals For Technical and Business Writing

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Additional Course Information

This course supports the learning and completion of ENGL 2311.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

NCBI0312 - Reading and Writing Fundamentals for United States History II

Course Title

Reading and Writing Fundamentals for United States History II

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

NCBI0315 - Reading and Writing Fundamentals for Public Speaking

Course Title

Reading and Writing Fundamentals for Public Speaking

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

NCBI0321 - Reading and Writing Fundamentals for Introduction to Humanities **Course Title**

Reading and Writing Fundamentals for Introduction to Humanities

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

NCBI0322 - Reading and Writing Fundamentals for General Psychology **Course Title**

Reading and Writing Fundamentals for General Psychology

Academic Level

Undergraduate

Description

Developmental reading and writing skills necessary for college readiness.

Additional Course Information

This course supports the learning and completion of PSYC 2301.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

0

Semester Credit Hours

0

Prerequisites

- ELAR or Reading/Writing Level 3 placement required, or student has completed INRW 0100 and NCBI 0100, or student has completed INRW 0200.

Robotics

2026-2027 Catalog & Student Handbook

RBTC1009 - Pneumatics

Course Title

Pneumatics

Academic Level

Continuing Education

Description

A study of principles of pneumatics, including formulas, functions, and circuits with hands-on experience in these industrial automated systems.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

60

Semester Credit Hours

0

RBTC1047 - Electro-Mechanical Devices

Course Title

Electro-Mechanical Devices

Academic Level

Continuing Education

Description

A study of basic electro-mechanical devices found in robotic systems, including transformers, switches, and solid state relays.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

RBTC1301 - Programmable Logic Controllers

Course Title

Programmable Logic Controllers

Academic Level

Undergraduate

Description

A study in programmable logic controllers (PLC). Topics include processor units, numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - ELPT1341 - Motor Control (3)
 - INTC1357 - AC/DC Motor Control (3)

2026-2027 Catalog & Student Handbook

RBTC1309 - Pneumatics

Course Title

Pneumatics

Academic Level

Undergraduate

Description

A study of principles of pneumatics, including formulas, functions, circuits and safety in industrial automated systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:

2026-2027 Catalog & Student Handbook

RBTC1341 - Vision Systems

Course Title

Vision Systems

Academic Level

Undergraduate

Description

An overview of machine vision systems, including terminology and components. Topics include optics, sensors, lighting, image analysis, and user interfaces.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC2339 - Robot Programming and Diagnostics (3)

2026-2027 Catalog & Student Handbook

RBTC1343 - Robotics

Course Title

Robotics

Academic Level

Undergraduate

Description

Principles and applications of robots. Includes installation, interfacing, programming, maintenance, and safety of robots and robotic cells.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete at least 1 of the following:
 - CETT1303 - DC Circuits (3)
 - IEIR1302 - Introduction to Direct Current Circuits (3)

2026-2027 Catalog & Student Handbook

RBTC1345 - Robot Interfacing **Course Title**

Robot Interfacing

Academic Level

Undergraduate

Description

A study of the basic principles of robot controllers, controller input/output, memory, and interfacing with computer integrated manufacturing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC2339 - Robot Programming and Diagnostics (3)
 - RBTC1347 - Electro-Mechanical Devices (3)

2026-2027 Catalog & Student Handbook

RBTC1347 - Electro-Mechanical Devices

Course Title

Electro-Mechanical Devices

Academic Level

Undergraduate

Description

A study of electro-mechanical devices found in robotic systems. Includes switches and relays.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RBTC1355 - Sensors

Course Title

Sensors

Academic Level

Undergraduate

Description

Study of basic principles of industrial sensors for automated systems. Emphasis on the operation and application of sensors, such as position, rate, proximity, opto-electronics, ranging, and pressure switches.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC2339 - Robot Programming and Diagnostics (3)
 - RBTC1347 - Electro-Mechanical Devices (3)

2026-2027 Catalog & Student Handbook

RBTC1371 - Industrial Motors and Drives

Course Title

Industrial Motors and Drives

Academic Level

Undergraduate

Description

Choosing, installation, and troubleshooting of 3-phase motors and variable speed drives, with emphasis on wiring and controls of industrial motors.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1301 - Programmable Logic Controllers (3)
 - ELPT1341 - Motor Control (3)

2026-2027 Catalog & Student Handbook

RBTC1391 - Special Topics in Robotics Technology

Course Title

Special Topics in Robotics Technology

Academic Level

Undergraduate

Description

This course will design and construct automated robotics systems for training.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RBTC2335 - Numerical Controlled/Computer Numerical Control Programming **Course Title**

Numerical Controlled/Computer Numerical Control Programming

Academic Level

Undergraduate

Description

A study of the principles and concepts of numerical control through computer applications, specifically in the area of programming for the control of machine tools in CIM.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1345 - Robot Interfacing (3)
 - RBTC1355 - Sensors (3)

2026-2027 Catalog & Student Handbook

RBTC2339 - Robot Programming and Diagnostics

Course Title

Robot Programming and Diagnostics

Academic Level

Undergraduate

Description

Emphasis on the programming of industrial robots, the development of programming techniques, and the diagnosis of faults in systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

RBTC2345 - Robot Application, Set-up, and Testing **Course Title**

Robot Application, Set-up, and Testing

Academic Level

Undergraduate

Description

A capstone course that provides the student with laboratory experience in the installation, set-up, and testing of robotic cells. Topics include maintenance.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1345 - Robot Interfacing (3)
 - RBTC1355 - Sensors (3)

2026-2027 Catalog & Student Handbook

RBTC2347 - Computer Integrated Manufacturing

Course Title

Computer Integrated Manufacturing

Academic Level

Undergraduate

Description

The principles of computer integrated manufacturing, including case studies and implementation of process control techniques, CAD/CAM, operations, software, and networking for CIM systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1345 - Robot Interfacing (3)
 - RBTC1355 - Sensors (3)

2026-2027 Catalog & Student Handbook

RBTC2375 - Human Machine Interface Programming and Interfacing **Course Title**

Human Machine Interface Programming and Interfacing

Academic Level

Undergraduate

Description

An overview of Human Machine Interface (HMI) devices and their use in industrial automation. Programming HMIs for use with automated systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - RBTC1345 - Robot Interfacing (3)
 - RBTC1301 - Programmable Logic Controllers (3)

Safety and Health

2026-2027 Catalog & Student Handbook

OSHT1000 - Basic Safety and Health

Course Title

Basic Safety and Health

Academic Level

Continuing Education

Description

Basic concepts of safety and health.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

OSHT1003 - Workplace Safety

Course Title

Workplace Safety

Academic Level

Continuing Education

Description

Provides an introduction to specific training techniques involving the safe handling of blood and airborne pathogens as well as the general safety and security on the premises. Addresses the right to know and Manufacturers Safety Data Sheets (MSDS). Outlines Occupational Safety and Health regulations.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

10

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

OSHT1005 - Osha Regulations-Const. Indus

Course Title

Osha Regulations-Const. Indus

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

OSHT1015 - Safety and Accident Prevention

Course Title

Safety and Accident Prevention

Academic Level

Continuing Education

Description

Recognize and evaluate hazards in the workplace and implement control measures including engineering, administrative, and personal protective equipment.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

OSHT1017 - Basic Safety Communications

Course Title

Basic Safety Communications

Academic Level

Continuing Education

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

OSHT1091 - St in Occupational Safety and Health

Course Title

St in Occupational Safety and Health

Academic Level

Continuing Education

Description

ST IN OCCUPATIONAL SAFETY AND HEALTH TECHNOLOGY/TECHNICIAN

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

OSHT1209 - Physical Hazards Control

Course Title

Physical Hazards Control

Academic Level

Undergraduate

Description

A study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis on the regulation codes and standards associated with the control of physical hazards.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

OSHT1305 - OSHA Regulations - Construction Industry

Course Title

OSHA Regulations - Construction Industry

Academic Level

Undergraduate

Description

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

OSHT1307 - Construction Site Safety and Health

Course Title

Construction Site Safety and Health

Academic Level

Undergraduate

Description

Introduction to safety requirements for construction sites including occupational health and environmental controls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

OSHT1313 - Accident Prevention, Inspection, & Investigation

Course Title

Accident Prevention, Inspection, & Investigation

Academic Level

Undergraduate

Description

Provides a basis for understanding the nature of occupational hazard recognition, accident prevention, loss reduction, inspection techniques, and accident investigation analysis.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

OSHT1320 - Energy Industrial Safety

Course Title

Energy Industrial Safety

Academic Level

Undergraduate

Description

An overview for industrial workers of state/federal regulations and guidelines which require industrial safety training. Topics include the 29 C.F.R. 1910, 1926 and National Fire Protection Association (NFPA) 70E standards such as confined space entry, emergency action, lock out/tag out, arc flash, and other work related subjects.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

OSHT2001 - OSHA Regulations-General Industry

Course Title

OSHA Regulations-General Industry

Academic Level

Continuing Education

Description

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to general industry.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

OSHT2209 - Safety Program Management

Course Title

Safety Program Management

Academic Level

Undergraduate

Description

Examine the major safety management issues that affect the workplace including safety awareness, loss control, regulatory issues, and human behavior modification.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

OSHT2320 - Safety Training Presentation Techniques

Course Title

Safety Training Presentation Techniques

Academic Level

Undergraduate

Description

Principles of developing and presenting effective industrial/business training. Emphasis on instructor qualifications and responsibilities, principles of teaching including use of teaching aids and presentation skills.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

OSHT2370 - Safety and Health First Aid Certification

Course Title

Safety and Health First Aid Certification

Academic Level

Undergraduate

Description

This course is designed to offer the student certification in standard First Aid and Cardio-Pulmonary Resuscitation (CPR) along with a full understanding of the principles of emergency care. The student will learn on-scene planning as well as actions necessary to deal with accidents and injuries in an industrial setting. The student will learn physiology of the human body and the principles behind pressure points and actions taken in splint application and body immobilization.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

OSHT2388 - Internship - Occupational Safety and Health Technology/Technician **Course Title**

Internship - Occupational Safety and Health Technology/Technician

Academic Level

Undergraduate

Description

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

Additional Course Information

Students are required to complete 144 hours total in the semester. It is recommended that a student completes 9 hours per week for the 15 week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

9

Total Contact Hours

144

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

OSHT2401 - OSHA Regulations - General Industry

Course Title

OSHA Regulations - General Industry

Academic Level

Undergraduate

Description

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to general industry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Science

SCIT1000 - Human Anatomy & Physiology

Course Title

Human Anatomy & Physiology

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

2

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

SCIT1318 - Applied Physics

Course Title

Applied Physics

Academic Level

Undergraduate

Description

Introduction to physics for industrial applications including vectors, motion, mechanics, simple machines, matter, heat, and thermodynamics.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

SCIT1407 - Applied Human Anatomy and Physiology I

Course Title

Applied Human Anatomy and Physiology I

Academic Level

Undergraduate

Description

An applied systematic study of the structure and function of the human body. Includes anatomical terminology, cells, tissues, and the following systems: integumentary, skeletal, muscular, nervous, and endocrine. Emphasis on homeostasis.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SCIT1414 - Applied General Chemistry I

Course Title

Applied General Chemistry I

Academic Level

Undergraduate

Description

Applications of general chemistry emphasizing industry-related laboratory skills and competencies including laboratory safety and report writing. Addresses supporting chemical theories including atomic and molecular structure, nomenclature, chemical reactivity, gas laws, acids and bases, solutions, and an overview of organic chemistry.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Semiconductor

2026-2027 Catalog & Student Handbook

SMFT1343 - Semiconductor Manufacturing Technology

Course Title

Semiconductor Manufacturing Technology

Academic Level

Undergraduate

Description

A study of the processes, materials, and equipment used in the manufacturing of semiconductors, including an overview of the semiconductor industry, related terminology, and standard safety practice.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SMFT2335 - Vacuum Technology

Course Title

Vacuum Technology

Academic Level

Undergraduate

Description

Skill development in vacuum technology, including vacuum principles, pumping systems, gauging, leak detection, and safety principles.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - SMFT1343 - Semiconductor Manufacturing Technology (3)

2026-2027 Catalog & Student Handbook

SMFT2338 - Radio Frequency (RF) Plasma Systems

Course Title

Radio Frequency (RF) Plasma Systems

Academic Level

Undergraduate

Description

A study of RF energy and its applications in the semiconductor manufacturing industry. Topics include plasma physics, RF power amplification and oscillators, transmission lines, impedance matching, and safety.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - SMFT1343 - Semiconductor Manufacturing Technology (3)

Small Engine Mechanic & Repair

2026-2027 Catalog & Student Handbook

SMER1434 - Small Engine Two Stroke Overhaul

Course Title

Small Engine Two Stroke Overhaul

Academic Level

Undergraduate

Description

Overhaul procedures for two stroke small engines as used in lawn and garden applications. Emphasis on proper shop procedures for overhaul of two stroke small engines.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

SMER1437 - Small Engine Four Stroke Engine

Course Title

Small Engine Four Stroke Engine

Academic Level

Undergraduate

Description

Overhaul procedures for four stroke small engines. Emphasis on shop procedures for overhauls.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

Sociology

SOCI1301 - Introduction to Sociology**Course Title**

Introduction to Sociology

Academic Level

Undergraduate

Description

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SOCI1306 - Social Problems

Course Title

Social Problems

Academic Level

Undergraduate

Description

Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance, or family problems.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SOCI2319 - Minority Studies I

Course Title

Minority Studies I

Academic Level

Undergraduate

Description

This course studies minority-majority group relations, addressing their historical, cultural, social, economic, and institutional development in the United States. Both sociological and social psychological levels of analysis will be employed to discuss issues including experiences of minority groups within the context of their cultural heritage and tradition, as well as that of the dominant culture. Core concepts to be examined include (but are not limited to) social inequality, dominance/subordination, prejudice, and discrimination. Particular minority groups discussed may include those based on poverty, race/ethnicity, gender, sexual orientation, age, disability, or religion.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Solar Energy Technology

2026-2027 Catalog & Student Handbook

SOLR1272 - Foundations of Solar Photovoltaic Power Generation

Course Title

Foundations of Solar Photovoltaic Power Generation

Academic Level

Undergraduate

Description

Solar electrical power generation using photovoltaic (PV) equipment. Includes calculation of power generation and demand requirements, installation process for solar system components, and strategies for optimizing system performance and reliability.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

SOLR1273 - Foundations of Solar Thermal Systems

Course Title

Foundations of Solar Thermal Systems

Academic Level

Undergraduate

Description

Discusses industry terminology, safety issues, solar thermal systems design and installation procedures.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

SOLR1371 - Introduction to Solar and Alternative Energy Technologies

Course Title

Introduction to Solar and Alternative Energy Technologies

Academic Level

Undergraduate

Description

Introduction to Renewable Energy is an overview to the most common types of renewable energy with an emphasis on solar system types and applications. This course introduces solar system types, components, safety issues, and history.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SOLR1372 - Foundations of Solar Photovoltaic Power Generation

Course Title

Foundations of Solar Photovoltaic Power Generation

Academic Level

Undergraduate

Description

Solar electrical power generation using photovoltaic (PV) equipment. Includes calculation of power generation and demand requirements, installation process for solar system components, and strategies for optimizing system performance and reliability.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

SOLR1373 - Foundations of Solar Thermal Systems

Course Title

Foundations of Solar Thermal Systems

Academic Level

Undergraduate

Description

Discusses industry terminology, safety issues, solar thermal systems design and installation procedures.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SOLR2175 - Solar System Design, Installation, Troubleshooting & Repair **Course Title**

Solar System Design, Installation, Troubleshooting & Repair

Academic Level

Undergraduate

Description

Design considerations including site assessment and desired system operation, installation, commissioning, maintenance, operation, troubleshooting and repair, and decommissioning. Review of safety issues, personal protection equipment, and tools of the trade associated with installation, operation, maintenance, and troubleshooting and repair of solar systems.

Lecture Hours

0

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

SOLR2275 - Solar System Design, Installation, Troubleshooting & Repair **Course Title**

Solar System Design, Installation, Troubleshooting & Repair

Academic Level

Undergraduate

Description

Design considerations including site assessment and desired system operation, installation, commissioning, maintenance, operation, troubleshooting, repair and decommissioning. Review of safety issues, personal protection equipment, and tools of the trade associated with installation, operation, maintenance, troubleshooting and repair of solar systems.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

2026-2027 Catalog & Student Handbook

SOLR2276 - Special Projects in Solar Energy Systems

Course Title

Special Projects in Solar Energy Systems

Academic Level

Undergraduate

Description

This course will provide the student with opportunities for solar installations and hands on experience. Photovoltaic Systems as well as Solar Thermal Systems will be addressed. Individual students will be given the responsibility of supervising the planning and installation of their own systems.

Lecture Hours

1

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

2

Semester Credit Hours

2

SOLR2374 - Photovoltaic Systems & Components

Course Title

Photovoltaic Systems & Components

Academic Level

Undergraduate

Description

Design and operation of solar system equipment, components, subsystems, and balance of plant. Design considerations for large solar utility arrays to include environmental, architectural, structural, and legal requirements.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SOLR2375 - Solar System Design, Installation, Troubleshooting & Repair **Course Title**

Solar System Design, Installation, Troubleshooting & Repair

Academic Level

Undergraduate

Description

Design considerations including site assessment and desired system operation, installation, commissioning, maintenance, operation, troubleshooting and repair, and decommissioning. Review of safety issues, personal protection equipment, and tools of the trade associated with installation, operation, maintenance, and troubleshooting and repair of solar systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
 - SOLR1372 - Foundations of Solar Photovoltaic Power Generation (3)
 - SOLR2374 - Photovoltaic Systems & Components (3)

2026-2027 Catalog & Student Handbook

SOLR2376 - Special Projects in Solar Energy Systems

Course Title

Special Projects in Solar Energy Systems

Academic Level

Undergraduate

Description

This course will provide the student with opportunities for solar installations and hands-on experience. Photovoltaic Systems as well as Solar Thermal Systems will be addressed. Individual students will be given the responsibility of supervising the planning and installation of their own systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
 - SOLR1372 - Foundations of Solar Photovoltaic Power Generation (3)
 - SOLR2374 - Photovoltaic Systems & Components (3)

2026-2027 Catalog & Student Handbook

SOLR2377 - Codes for Alternative Energy, Efficiency & Conservation

Course Title

Codes for Alternative Energy, Efficiency & Conservation

Academic Level

Undergraduate

Description

Apply various building and energy codes to solar and other alternate energy system installations. Emphasis will be on safety features of the codes and how the installation methods affect installers, occupants as well as any emergency responders that may have contact with the system and the structure on which it is installed. Energy efficiency, energy conservation, and the concept of a whole structure approach will be covered.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
 - SOLR1372 - Foundations of Solar Photovoltaic Power Generation (3)
 - SOLR2374 - Photovoltaic Systems & Components (3)

Spanish

2026-2027 Catalog & Student Handbook

SPAN1311 - Beginning Spanish I

Course Title

Beginning Spanish I

Academic Level

Undergraduate

Description

Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

SPAN1312 - Beginning Spanish II

Course Title

Beginning Spanish II

Academic Level

Undergraduate

Description

Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SPAN1411 - Beginning Spanish I **Course Title**

Beginning Spanish I

Academic Level

Undergraduate

Description

Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SPAN1412 - Beginning Spanish II

Course Title

Beginning Spanish II

Academic Level

Undergraduate

Description

Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

4

Special Topics Petroleum

2026-2027 Catalog & Student Handbook

PTRT1003 - Drilling **Course Title**

Drilling

Academic Level

Continuing Education

Description

A study of practices and procedures that are involved in drilling operations. Topics on rig equipment, casing design, fishing, and proper procedures to successfully drill a well are implemented. Instruction in volume calculations, hydrostatic pressures, formations pressures, and analyzing problems in downhill drilling operations.

Lecture Hours

10

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

160

Semester Credit Hours

0

PTRT1006 - Drilling Fluids **Course Title**

Drilling Fluids

Academic Level

Continuing Education

Description

A study of the functions and properties of the fluids used in drilling an oil or gas well. The various types of mud systems for different formations will be discussed and developed.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

40

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

PTRT1013 - Industrial Safety

Course Title

Industrial Safety

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

PTRT1301 - Introduction to Petroleum Industry

Course Title

Introduction to Petroleum Industry

Academic Level

Undergraduate

Description

An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PTRT1307 - Recovery and Production Methods

Course Title

Recovery and Production Methods

Academic Level

Undergraduate

Description

Petroleum recovery and production methods.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

PTRT1317 - Natural Gas Processing I

Course Title

Natural Gas Processing I

Academic Level

Undergraduate

Description

An overview of natural gas processing operations. Topics include fundamentals of gas processing, the scientific principles and how they apply to the process, processing equipment, and procedures.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

48

Total Contact Hours

0

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

PTRT1401 - Introduction to Petroleum Industry

Course Title

Introduction to Petroleum Industry

Academic Level

Undergraduate

Description

An introduction to the various aspects of petroleum industry including equipment, systems, instrumentation, operations, and the various scientific principles. Addresses a variety of petroleum technologies: exploration, drilling, production, transportation, marketing, and chemical processing industries.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

4

Semester Credit Hours

4

PTRT1413 - Industrial Safety

Course Title

Industrial Safety

Academic Level

Undergraduate

Description

An overview for petroleum and manufacturing workers of state/federal regulations and guidelines which require industrial safety training. Topics include the 29 C.F.R 1910, 1926 standards.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

PTRT1471 - Downhole Tool Redressing **Course Title**

Downhole Tool Redressing

Academic Level

Undergraduate

Description

Topics address recently identified skills and knowledge pertinent to working in the oil and gas shop environments. This course has been designed to prepare a student for redressing the downhole tools used in the oil well servicing industry.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

PTRT2025 - Petroleum Safety and Environmental Hazar **Course Title**

Petroleum Safety and Environmental Hazar

Academic Level

Continuing Education

Description

Various hazards associated with the petroleum industry.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

PTRT2323 - Natural Gas Production

Course Title

Natural Gas Production

Academic Level

Undergraduate

Description

An overview of the aspects of natural gas and oil production including various aspects of hydrocarbon production, processing equipment, and gas compression/transportation systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Speech

2026-2027 Catalog & Student Handbook

SPCH1311 - Introduction to Speech Communication

Course Title

Introduction to Speech Communication

Academic Level

Undergraduate

Description

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

SPCH1315 - Public Speaking

Course Title

Public Speaking

Academic Level

Undergraduate

Description

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SPCH1318 - Interpersonal Communication **Course Title**

Interpersonal Communication

Academic Level

Undergraduate

Description

Application of communication theory to interpersonal relationship development, maintenance, and termination in relationship contexts including friendships, romantic partners, families, and relationships with co-workers and supervisors.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

SPCH1321 - Business & Professional Communication **Course Title**

Business & Professional Communication

Academic Level

Undergraduate

Description

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SPCHX3XX - Gen Ed Speech Elective

Course Title

Gen Ed Speech Elective

Academic Level

Undergraduate

Description

Speech Elective - 3 credits

Course Options

- Complete at least 3 credits from the following course set:



Speech Elective

- SPCH1311 - Introduction to Speech Communication(3)
- SPCH1315 - Public Speaking (3)
- SPCH1318 - Interpersonal Communication (3)
- SPCH1321 - Business & Professional Communication(3)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Surg Tech

2026-2027 Catalog & Student Handbook

SRGT1244 - Technological Sciences for the Surgical Technologist

Course Title

Technological Sciences for the Surgical Technologist

Academic Level

Undergraduate

Description

Specialized surgical modalities covered include endoscopy, microsurgery, therapeutic surgical energies, and other integrated science technologies.

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

2

Semester Credit Hours

2

SRGT1405 - Introduction to Surgical Technology

Course Title

Introduction to Surgical Technology

Academic Level

Undergraduate

Description

Orientation to surgical technology theory, surgical pharmacology and anesthesia, technological sciences, and patient care concepts.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SRGT1409 - Fundamentals of Perioperative Concepts and Techniques

Course Title

Fundamentals of Perioperative Concepts and Techniques

Academic Level

Undergraduate

Description

In-depth coverage of perioperative concepts such as aseptic principles and practices, infectious processes, wound healing and creation and maintenance of the sterile field.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SRGT1441 - Surgical Procedures I

Course Title

Surgical Procedures I

Academic Level

Undergraduate

Description

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN genitourinary, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SRGT1442 - Surgical Procedures II

Course Title

Surgical Procedures II

Academic Level

Undergraduate

Description

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the thoracic, peripheral vascular, plastic/reconstructive , EENT, cardiac, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care.

Lecture Hours

3

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

SRGT1460 - Clinical - Surgical Technology/Technologist

Course Title

Clinical - Surgical Technology/Technologist

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

16

Total Contact Hours

256

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SRGT1461 - Clinical - Surgical Technology/Technologist **Course Title**

Clinical - Surgical Technology/Technologist

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Additional Course Information

Students are required to complete 384 total contact hours in the semester. The student should complete 24 clinical contact hours per week for the 15 week term.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

24

Total Contact Hours

384

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - SRGT1491 - Special Topics in Surgical/Operating Room Technician (4)

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SRGT1491 - Special Topics in Surgical/Operating Room Technician **Course Title**

Special Topics in Surgical/Operating Room Technician

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

3

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

112

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

SRGT1541 - Surgical Procedures I

Course Title

Surgical Procedures I

Academic Level

Undergraduate

Description

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, otorhinolaryngology, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care.

Lecture Hours

3

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

144

Credits

5

Semester Credit Hours

5

2026-2027 Catalog & Student Handbook

SRGT1542 - Surgical Procedures II

Course Title

Surgical Procedures II

Academic Level

Undergraduate

Description

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the cardiothoracic, peripheral vascular, plastic/reconstructive , ophthalmology, oral/maxillofacial, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care.

Lecture Hours

3

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

144

Credits

5

Semester Credit Hours

5

Prerequisites

- Complete the following:
 - SRGT1541 - Surgical Procedures I (5)

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SRGT2130 - Professional Readiness

Course Title

Professional Readiness

Academic Level

Undergraduate

Description

Overview of professional readiness for employment, attaining certification, and maintaining certification status.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Credits

1

Semester Credit Hours

1

2026-2027 Catalog & Student Handbook

SRGT2462 - Clinical - Surgical Technology/Technologist **Course Title**

Clinical - Surgical Technology/Technologist

Academic Level

Undergraduate

Description

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

24

Total Contact Hours

384

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - SRGT1461 - Clinical - Surgical Technology/Technologist (4)

Surveying

2026-2027 Catalog & Student Handbook

SRVY1313 - Plane Surveying

Course Title

Plane Surveying

Academic Level

Undergraduate

Description

An introductory overview of surveying equipment and measurement techniques used in mapping. Emphasis on leveling and traversing.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

SRVY1341 - Land Surveying

Course Title

Land Surveying

Academic Level

Undergraduate

Description

A study of the measurement and determination of boundaries, areas, shapes, location through traversing techniques. Instruction in a variety of adjustment methods using calculators and computers. Addresses methods of traversing and adjustment of errors according to prevailing professional standards.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

SRVY2348 - Plane Surveying **Course Title**

Plane Surveying

Academic Level

Undergraduate

Description

Surveying instruments, basic measuring procedures, vertical and horizontal control, and traverse closure.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Teacher Education

EDTC1090 - Systematic Curr. & Inst. Dev **Course Title**

Systematic Curr. & Inst. Dev

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

39

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EDTC1164 - Practicum (or Field Experience) - Teacher Assistant/Aide

Course Title

Practicum (or Field Experience) - Teacher Assistant/Aide

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

10

Total Contact Hours

160

Credits

1

Semester Credit Hours

1

EDTC1301 - Educational Systems

Course Title

Educational Systems

Academic Level

Undergraduate

Description

A study of the role and responsibilities of educational personnel with emphasis on development of professionalism and communication strategies. Topics include the various codes of ethics governing the educational field, the issue of confidentiality, learners' rights and responsibilities, and challenges facing schools.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1307 - Introduction to Teaching Reading

Course Title

Introduction to Teaching Reading

Academic Level

Undergraduate

Description

General principles of reading instruction. Topics include emergent literacy, reading readiness, reading instruction, literacy-based environments, and a review of varied materials and techniques for teaching reading.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

EDTC1321 - Bilingual Education

Course Title

Bilingual Education

Academic Level

Undergraduate

Description

An overview of bilingual education. Topics include awareness of cultural diversity, assessment strategies, teaching techniques, instructional activity development, and historical/philosophical concepts of bilingual/bicultural education.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1325 - Multicultural Education **Course Title**

Multicultural Education

Academic Level

Undergraduate

Description

An examination of cultural diversity found in society and reflected in the classroom. Topics include the study of major cultures and their influence on lifestyle, behavior, learning, intercultural communication and teaching, as well as psychosocial stressors encountered by diverse cultural groups.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1341 - Instructional Technology and Computer Applications

Course Title

Instructional Technology and Computer Applications

Academic Level

Undergraduate

Description

Examination of specialized educational technology. Topics include the integration of educational computer terminology, system operations, software, and multimedia in the contemporary classroom environment.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1364 - Practicum (or Field Experience) - Teacher Assistant/Aide

Course Title

Practicum (or Field Experience) - Teacher Assistant/Aide

Academic Level

Undergraduate

Description

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

Additional Course Information

Students are required to complete 336 total contact hours in the semester. It is recommended that a student completes 21 contact hours per week for the 15-week semester.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

21

Total Contact Hours

336

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1373 - Writing Problems

Course Title

Writing Problems

Academic Level

Undergraduate

Description

An in depth coverage of writing difficulties at the elementary level. Emphasis will be on the foundations and theories of writing at the elementary level, required curriculum to be taught, instructional techniques to utilize with students, models of teaching students, assessment techniques, and lesson planning strategies useful in working with the elementary student.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1374 - Teaching Math & Science in the Elementary School **Course Title**

Teaching Math & Science in the Elementary School

Academic Level

Undergraduate

Description

Practical approaches for introducing math and science concepts in an elementary classroom lab environment with an emphasis on problem solving, inquiry, and critical thinking. Topics include basic math and science concepts and properties, diagnostic testing, pedagogy, and recognizing and recommending corrective teaching strategies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC1375 - Issues in Special Needs Education

Course Title

Issues in Special Needs Education

Academic Level

Undergraduate

Description

An examination of current research, federal and state regulations, and programs for students with exceptionalities within the public school environment. Topics address methods for supporting instructional planning and the implementation of program goals and objectives.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

EDTC2000 - Verbal and Physical Conflict Resolution

Course Title

Verbal and Physical Conflict Resolution

Academic Level

Continuing Education

Description

Intensive training in an identified area(s) to meet continuing education and/or review/update requirements associated with professional licensure or certification. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

8

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

EDTC2305 - Reading Problems

Course Title

Reading Problems

Academic Level

Undergraduate

Description

In-depth coverage of reading difficulties. Emphasis on the theories, strategies, recognition, and remediation of reading problems. Topics include assessment, direct instruction, and motivational/interactive literacy activities.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

EDTC2311 - Instructional Practices and Effective Learning Environments

Course Title

Instructional Practices and Effective Learning Environments

Academic Level

Undergraduate

Description

General principles for selecting developmentally appropriate strategies in core curriculum areas, planning the classroom environment, and instructional accommodations and modifications.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

EDTC2317 - Guiding Student Behavior

Course Title

Guiding Student Behavior

Academic Level

Undergraduate

Description

Developmentally appropriate and indirect guidance techniques for use in various school environments. Topics include identifying causes of inappropriate behavior, establishing and managing routines, the environment's role in promoting positive behavior, promoting self-esteem negotiation/conflict resolution strategies, and enhancing positive self-direction. Emphasis in implementation of a behavior management plan.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Visual & Performing Art, Animt

2026-2027 Catalog & Student Handbook

ARTV1345 - 3-D Modeling and Rendering I

Course Title

3-D Modeling and Rendering I

Academic Level

Undergraduate

Description

Techniques of three-dimensional (3-D) modeling utilizing industry standard software. Includes the creation and modification of 3-D geometric shapes, use of a variety of rendering techniques, camera, light sources, texture, and surface mapping.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTC1302 - Digital Imaging I (3)

2026-2027 Catalog & Student Handbook

ARTV1351 - Digital Video

Course Title

Digital Video

Academic Level

Undergraduate

Description

Producing and editing video and sound for multimedia or web productions. Emphasizes capture, editing, and outputting of video using a digital video workstation.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

ARTV2341 - Advanced Digital Video

Course Title

Advanced Digital Video

Academic Level

Undergraduate

Description

Advanced digital video techniques for post-production. Emphasizes integration of special effects and animation for film, video, and the Internet. Exploration of new and emerging compression and video streaming technologies.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - ARTV1351 - Digital Video (3)

2026-2027 Catalog & Student Handbook

ARTV2345 - 3-D Modeling and Rendering II

Course Title

3-D Modeling and Rendering II

Academic Level

Undergraduate

Description

A studio course focused on advanced 3-D modeling and rendering techniques using industry standard software, modeling techniques, camera settings, lighting, and surfacing to develop detailed environments.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

ARTV2351 - 3-D Animation II

Course Title

3-D Animation II

Academic Level

Undergraduate

Description

Advanced level 3-D course utilizing animation tools and techniques used to develop movement. Emphasis on advanced animation techniques. null APRIL 17 2009 03:17pm Saucedo, Elizabeth null

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

WECM Course

WECM3AEC - Area of Emphasis Course

Course Title

Area of Emphasis Course

Academic Level

Undergraduate

Description

Area of Emphasis WECM 3 Credit Elective

Course Options

- Complete at least 3 credits from the following course set:



Area of Emphasis

- EDTC1321 - Bilingual Education(3)
- EDTC1325 - Multicultural Education (3)
- CDEC1321 - The Infant and Toddler(3)
- CDEC1356 - Emergent Literacy for Early Childhood(3)
- EDTC1373 - Writing Problems(3)
- EDTC2305 - Reading Problems(3)
- CDEC2340 - Instructional Techniques for Children with Special Needs(3)
- EDTC1375 - Issues in Special Needs Education(3)

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Welder/Welding Technologist

2026-2027 Catalog & Student Handbook

NDTE1310 - Liquid Penetrant/Magnetic Particle Testing

Course Title

Liquid Penetrant/Magnetic Particle Testing

Academic Level

Undergraduate

Description

Identify and select proper materials and equipment to perform a liquid penetrant test of a weldment; interpret the results of a liquid penetrant test to ascertain acceptability of the weldment; demonstrate knowledge of safety precautions relative to fire and toxic hazards; and identify and properly select equipment used in magnetic particle testing. Demonstrate knowledge of the principles of magnetic particle, magnetic fields, current requirements for testing and demagnetization; perform a magnetic particle examination on a weldment, following established procedures; and interpret the results of the above test to ascertain acceptability of the weldment.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

2026-2027 Catalog & Student Handbook

NDTE2001 - Advanced Ultrasonics

Course Title

Advanced Ultrasonics

Academic Level

Continuing Education

Description

Designed to strengthen the students' knowledge and skills in ultrasonic testing. Emphasis is on examination of plate and pipe welds, characterization of flaws, immersion testing, written practices, and procedures.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

NDTE2311 - Preparation Welding Inspection (2-2-3)

Course Title

Preparation Welding Inspection (2-2-3)

Academic Level

Undergraduate

Description

General principles of welding inspection including welding processes, terms and definitions, welding discontinuities, duties and responsibilities of inspectors, destructive and nondestructive testing, quality assurance/ quality control, welding codes and blueprints, procedures, and case studies. An overview of welding tools and equipment, metallurgy, chemistry, and joint design. '

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Welding

WLDG1004 - Fundamentals of Oxy-Fuel Welding & Cutti **Course Title**

Fundamentals of Oxy-Fuel Welding & Cutti

Academic Level

Continuing Education

Description

Oxy-fuel welding and cutting equipment. Includes equipment safety, setup, and maintenance.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

WLDG1007 - Intro Welding Using Multiple Processes **Course Title**

Intro Welding Using Multiple Processes

Academic Level

Continuing Education

Description

An overview of the basic welding processes, including oxy-fuel welding and cutting, shielded metal arc (SMAW), gas metal arc (GMAW), and gas tungsten arc welding (GTAW).

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1012 - Introduction to Flux Cored Arc Welding

Course Title

Introduction to Flux Cored Arc Welding

Academic Level

Continuing Education

Description

An overview of terminology, safety procedures, and equipment set-up. Practice in performing T-joints, lap joints, and butt joints using self-shielding and dual-shield electrodes.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

WLDG1017 - Introduction to Layout and Fabrication

Course Title

Introduction to Layout and Fabrication

Academic Level

Continuing Education

Description

A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction.

Lecture Hours

10

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

160

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1021 - Intro to Welding Fundamentals

Course Title

Intro to Welding Fundamentals

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

WLDG1023 - Welding Safety, Tools, & Equip

Course Title

Welding Safety, Tools, & Equip

Academic Level

Continuing Education

Description

An introduction to welding careers and safety practice, including welding safety; OSHA and the Hazardous Communication Act; Material Safety Data Sheets (MSDS); basic mathematics; measuring systems; shop operations; use and care of precision measuring tools; and the use and care of hand and power tools. Instruction on various types of welding equipment and processes, basic welding gases, fluxes, rods, electrodes, symbols, and blueprints.

Lecture Hours

4

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

72

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1025 - Intro Oxy-Fuel Wldg & Cutting

Course Title

Intro Oxy-Fuel Wldg & Cutting

Academic Level

Continuing Education

Description

An Introduction to Oxy-Fuel Welding and Cutting, Safety, Setup And Maintenance of Oxy-Fuel Welding, and Cutting Equipment and Supplies.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

WLDG1028 - Intro to Shielded Arc Welding (smaw)

Course Title

Intro to Shielded Arc Welding (smaw)

Academic Level

Continuing Education

Description

An introduction to shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1030 - Introduction to Gas Metal Arc Welding (g) **Course Title**

Introduction to Gas Metal Arc Welding (g)

Academic Level

Continuing Education

Description

A study of the principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment. Instruction in various joint designs.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

WLDG1035 - Intro to Pipe Welding **Course Title**

Intro to Pipe Welding

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1041 - Pipe Welding

Course Title

Pipe Welding

Academic Level

Continuing Education

Description

This course covers pipe welding techniques and applications.

Lecture Hours

0

Lab Hours

5

Ext. Con. Hrs

0

Total Contact Hours

80

Semester Credit Hours

0

WLDG1057 - Intermediate Smaw

Course Title

Intermediate Smaw

Academic Level

Continuing Education

Description

A Study of the Production of Various Fillets and Groove Welds. Preparation of Specimens for Testing in All Test Positions.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1072 - Welding Internship

Course Title

Welding Internship

Academic Level

Continuing Education

Description

A basic, intermediate, or advanced type of non-health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. Practical experience is simultaneously related to theory. Direct supervision is provided by the faculty or the work supervisor. An internship may be a paid or unpaid learning experience.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

WLDG1091 - Special Topics in Welding

Course Title

Special Topics in Welding

Academic Level

Continuing Education

Lecture Hours

2

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

24

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG1313 - Introduction to Blueprint Reading for Welders

Course Title

Introduction to Blueprint Reading for Welders

Academic Level

Undergraduate

Description

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

WLDG1327 - Welding Codes and Standards

Course Title

Welding Codes and Standards

Academic Level

Undergraduate

Description

An in-depth study of welding codes and their development in accordance with structural standards, welding processes, destructive and nondestructive test methods.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

2026-2027 Catalog & Student Handbook

WLDG1337 - Introduction to Welding Metallurgy

Course Title

Introduction to Welding Metallurgy

Academic Level

Undergraduate

Description

A study of ferrous and nonferrous metals from the ore to the finished product. Emphasis on metal alloys, heat treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metal including hardness, machinability, and ductility.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

2026-2027 Catalog & Student Handbook

WLDG1391 - Special Topics in Welder/Welding Technologist **Course Title**

Special Topics in Welder/Welding Technologist

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

WLDG1407 - Introduction to Welding Using Multiple Processes **Course Title**

Introduction to Welding Using Multiple Processes

Academic Level

Undergraduate

Description

Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW).

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

WLDG1412 - Intro to Flux Cored Arc Welding (fcaw)

Course Title

Intro to Flux Cored Arc Welding (fcaw)

Academic Level

Undergraduate

Description

An overview of terminology, safety procedures, and equipment set-up. Practice in performing T-joints, lap joints, and butt joints using Flux Cored Arc Welding(FCAW) equipment.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

WLDG1417 - Introduction to Layout and Fabrication

Course Title

Introduction to Layout and Fabrication

Academic Level

Undergraduate

Description

A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG1313 - Introduction to Blueprint Reading for Welders (3)

2026-2027 Catalog & Student Handbook

WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW)

Course Title

Introduction to Shielded Metal Arc Welding (SMAW)

Academic Level

Undergraduate

Description

An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding **Course Title**

Introduction to Gas Tungsten Arc (GTAW) Welding

Academic Level

Undergraduate

Description

Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG1407 - Introduction to Welding Using Multiple Processes (4)

2026-2027 Catalog & Student Handbook

WLDG1435 - Introduction to Pipe Welding

Course Title

Introduction to Pipe Welding

Academic Level

Undergraduate

Description

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G using various electrodes.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2435 - Advanced Layout and Fabrication (4)

2026-2027 Catalog & Student Handbook

WLDG1453 - Intermediate Layout & Fabrication

Course Title

Intermediate Layout & Fabrication

Academic Level

Undergraduate

Description

An intermediate course in layout and fabrication. Includes design and production of shop layout and fabrication. Emphasis placed on symbols, blueprints, and written specifications

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

2026-2027 Catalog & Student Handbook

WLDG1457 - Intermediate Shielded Metal Arc Welding (SMAW)

Course Title

Intermediate Shielded Metal Arc Welding (SMAW)

Academic Level

Undergraduate

Description

A study of the production of various fillets and groove welds. Preparation of specimens for testing in various positions.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW) (4)

WLDG2032 - Welding Automation

Course Title

Welding Automation

Academic Level

Continuing Education

Description

Overview of automated welding and cutting applications. Special emphasis on safe use and operation of equipment.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG2043 - Advanced Smaw

Course Title

Advanced Smaw

Academic Level

Continuing Education

Description

Advanced Topics Based on Accepted Welding Codes. Training Provided With Various Electrodes in Shielded Metal Arc Welding Processes With Open V-Groove Joints in All Positions.

Lecture Hours

1

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

16

Semester Credit Hours

0

WLDG2047 - Advanced Gas Metal Arc Welding (gmaw)

Course Title

Advanced Gas Metal Arc Welding (gmaw)

Academic Level

Continuing Education

Description

Advanced topics in Gas Metal Arc Welding (GMAW). Includes welding in various positions.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

100

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG2051 - Adv Gas Tungsten Arc Welding

Course Title

Adv Gas Tungsten Arc Welding

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

WLDG2052 - Advanced Flux Cored Arc Welding

Course Title

Advanced Flux Cored Arc Welding

Academic Level

Continuing Education

Description

Advanced concepts of flux cored arc welding of structural and fabricated steel products. Skill development in multi-pass fillet and v-groove welding.

Lecture Hours

6

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

100

Semester Credit Hours

0

2026-2027 Catalog & Student Handbook

WLDG2331 - Adv Blueprint Interpretation & Cost Anal Cost Analysis

Course Title

Adv Blueprint Interpretation & Cost Anal Cost Analysis

Academic Level

Undergraduate

Description

A continuation of the Blueprint for Welders course. Emphasis placed on inspection, cost analysis, and estimating.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

WLDG2355 - Advanced Metallurgy

Course Title

Advanced Metallurgy

Academic Level

Undergraduate

Description

Advanced study of metallurgy as it applies to welding. Includes structure, identification, and testing of metals. Also covers temperature changes and their effect on welded metals, properties of metals, and factors affecting weldability of ferrous and nonferrous metals.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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WLDG2406 - Intermediate Pipe Welding **Course Title**

Intermediate Pipe Welding

Academic Level

Undergraduate

Description

A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2435 - Advanced Layout and Fabrication (4)

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WLDG2413 - Intermediate Welding Using Multiple Processes

Course Title

Intermediate Welding Using Multiple Processes

Academic Level

Undergraduate

Description

Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes: Oxy-fuel gas cutting and welding, shield, metal arc welding (SMAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW).

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete all of the following
 - Complete the following:
 - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
 - Completed or concurrently enrolled in:
 - WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding (4)

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WLDG2432 - Welding Automation

Course Title

Welding Automation

Academic Level

Undergraduate

Description

Overview of automated welding and cutting applications. Special emphasis on safe use and operation of equipment

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

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WLDG2435 - Advanced Layout and Fabrication

Course Title

Advanced Layout and Fabrication

Academic Level

Undergraduate

Description

An advanced course in layout and fabrication. Includes production and fabrication of layout, tools, and processes. Emphasis on application of fabrication and layout skills.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG1417 - Introduction to Layout and Fabrication (4)

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WLDG2443 - Advanced Shielded Metal Arc Welding (SMAW)

Course Title

Advanced Shielded Metal Arc Welding (SMAW)

Academic Level

Undergraduate

Description

Advanced topics based on accepted welding codes. Training provided with various electrodes in shielded metal arc welding processes with open V-groove joints in all positions.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG1457 - Intermediate Shielded Metal Arc Welding (SMAW) (4)

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WLDG2447 - Advanced Gas Metal Arc Welding (gmaw)

Course Title

Advanced Gas Metal Arc Welding (gmaw)

Academic Level

Undergraduate

Description

Advanced topics in Gas Metal Arc Welding (GMAW). Includes welding in various positions.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

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WLDG2451 - Advanced Gas Tungsten Arc Welding (GTAW)

Course Title

Advanced Gas Tungsten Arc Welding (GTAW)

Academic Level

Undergraduate

Description

Advanced topics in GTAW welding, including welding in various positions and directions.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

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WLDG2452 - Advanced Flux Cored Arc Welding

Course Title

Advanced Flux Cored Arc Welding

Academic Level

Undergraduate

Description

Advanced concepts of flux cored arc welding of structural and fabricated steel products. Skill development of multi-pass fillet and v-groove welding.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2413 - Intermediate Welding Using Multiple Processes (4)

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WLDG2453 - Advanced Pipe Welding

Course Title

Advanced Pipe Welding

Academic Level

Undergraduate

Description

Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes.

Lecture Hours

2

Lab Hours

6

Ext. Con. Hrs

0

Total Contact Hours

128

Credits

4

Semester Credit Hours

4

Prerequisites

- Complete the following:
 - WLDG2435 - Advanced Layout and Fabrication (4)

Wind Energy & Turbine Tech

2026-2027 Catalog & Student Handbook

WIND1000 - Introduction to Wind Energy

Course Title

Introduction to Wind Energy

Academic Level

Continuing Education

Description

Introduction of the evolution of wind technology, wind farm design, and characteristics of energy sources.

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

WIND1002 - Wind Safety

Course Title

Wind Safety

Academic Level

Continuing Education

Description

Introduction to safety procedures and practices relating to turbine towers. Includes first aid training and CPR certifications.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Semester Credit Hours

0

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WIND1300 - Introduction to Wind Energy

Course Title

Introduction to Wind Energy

Academic Level

Undergraduate

Description

Introduction of wind technology, wind farm design, and wind power delivery.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

WIND1302 - Wind Safety

Course Title

Wind Safety

Academic Level

Undergraduate

Description

Introduction to safety procedures and practices relating to turbine towers. Includes first aid training and CPR certifications.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

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WIND1371 - Safety At Height Training

Course Title

Safety At Height Training

Academic Level

Undergraduate

Description

Develop basic safety at height skills, gain knowledge of how to react to dangerous situations in the turbine, and learn emergency evacuation skills.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1325 - Digital Fundamentals (3)

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WIND1391 - Special Topics in Wind Energy

Course Title

Special Topics in Wind Energy

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

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WIND1491 - Special Topics in Wind Energy

Course Title

Special Topics in Wind Energy

Academic Level

Undergraduate

Description

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

WIND2010 - Turbine Specific/Duke Energy Tech. Train

Course Title

Turbine Specific/Duke Energy Tech. Train

Academic Level

Continuing Education

Lecture Hours

0

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

0

Semester Credit Hours

0

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WIND2310 - Wind Turbine Materials and Electro-Mechanical Equipment

Course Title

Wind Turbine Materials and Electro-Mechanical Equipment

Academic Level

Undergraduate

Description

Identification and analysis of the components and systems of wind turbine.

Lecture Hours

2

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - WIND1300 - Introduction to Wind Energy (3)
 - WIND1302 - Wind Safety (3)
 - CETT1303 - DC Circuits (3)

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WIND2355 - Wind Turbine Troubleshooting and Repair

Course Title

Wind Turbine Troubleshooting and Repair

Academic Level

Undergraduate

Description

Operation, maintenance, troubleshooting, and repair of wind turbine electro-mechanical systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)
 - INMT1317 - Industrial Automation (3)

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WIND2359 - Wind Power Delivery System

Course Title

Wind Power Delivery System

Academic Level

Undergraduate

Description

Components, equipment, and infrastructure used in the production and transmission of electricity as related to wind turbine power.

Lecture Hours

2

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

3

Semester Credit Hours

3

Prerequisites

- Complete the following:
 - CETT1305 - AC Circuits (3)

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WIND2455 - Wind Turbine Troubleshooting and Repair

Course Title

Wind Turbine Troubleshooting and Repair

Academic Level

Undergraduate

Description

Operation, maintenance, troubleshooting, and repair of wind turbine electro-mechanical systems.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

4

Semester Credit Hours

4

WIND2459 - Wind Power Delivery System

Course Title

Wind Power Delivery System

Academic Level

Undergraduate

Description

Components, equipment, and infrastructure used in the production and transmission of electricity as related to wind turbine power.

Lecture Hours

3

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

80

Credits

4

Semester Credit Hours

4

