TEXAS STATE TECHNICAL COLLEGE

Catalog & Student Handbook

2024–2025

Texas State Technical College

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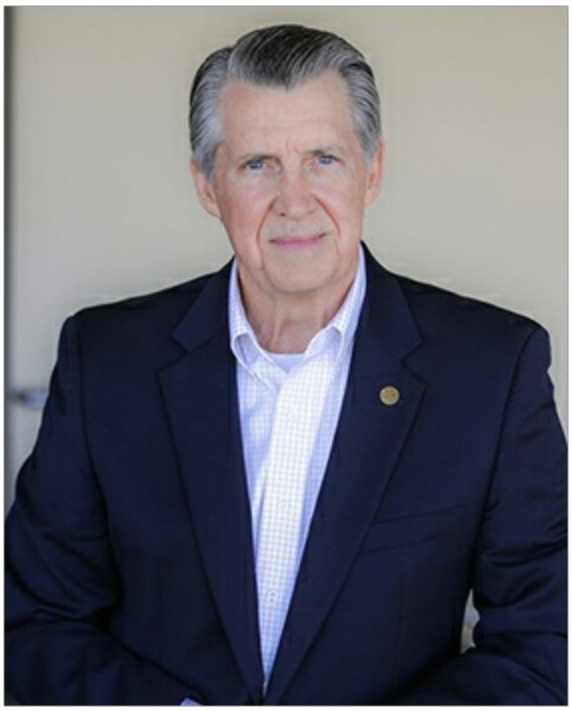
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Catalog and Student Handbooks

00. Handbook Home

Message from the Chancellor



Texas State Technical College (TSTC) is not your typical kind of college, and I can’t resist telling people about that fact!

TSTC was established more than 50 years ago to help create a strong Texas. At the time, Governor John Connally predicted that we would become “the most sophisticated technical-vocational institute in the country.” TSTC is living true to that vision with 10 campuses in Abilene, Breckenridge, Brownwood, East Williamson County, Fort Bend County, Harlingen, Marshall, North Texas, Sweetwater and Waco.

Indeed, with a statewide role and mission, TSTC is doing what we were created to do. We are efficiently and effectively helping Texas meet the high-tech challenges of today’s global economy in partnership with business and industry, government agencies and other educational institutions.

TSTC graduates are highly valued by business and industry for their work ethic, knowledge and workplace skills. Whether a student is considering upgrading their skills or just starting on a new career path, one of the many TSTC campuses is a great place to prepare for a great-paying job in the vibrant Texas economy.

Regards,

Mike Reeser

Chancellor & CEO

01. About the Catalog & Student Handbook

About the Catalog & Student Handbook



The Texas State Technical College Catalog and Student Handbook includes everything you need to know about TSTC. This catalog is in effect for new students entering TSTC in the 2024-2025 academic year and for any TSTC student returning in the 2024-2025 academic year whose catalog has expired. It was prepared from existing policies and information obtained from the appropriate TSTC officials and is the document of authority for all students.

You may follow the degree plan requirements described in the catalog in effect at the time you first enrolled at TSTC, or you may choose to follow the degree plan requirements of a later catalog in effect during your enrollment, as long as the program of study is still offered, the catalog is not more than five years old and you have officially declared the corresponding major.

TSTC reserves the right to make changes in the regulations and offerings announced in this catalog as circumstances require. Each semester the College posts an online schedule listing courses to be offered. Not all courses listed in this catalog are offered each semester. This information is made available to students as early as possible prior to the beginning of each semester.

How to Use this Catalog

This catalog is a description of the academic programs, policies and facilities of Texas State Technical College (TSTC). It also describes the many resources we provide to assist you with achieving your academic and career goals, including free advising and tutoring services.

TSTC maintains an open-admissions policy providing higher education to all persons who can benefit from its programs and courses. You may complete a TSTC application at any time during the year. Additionally, you will always have access to admission advisors and faculty members who can help you make good decisions for your future. We look forward to serving you as you become a TSTC student!

02. Academic Calendar

Academic & Events Calendar

Find important dates and events at tstc.edu/events.

FALL 2024	24/FA Semester
July 30, 2024	Payment Deadline for 15-Week Session
August 30, 2024	Fall Registration Ends
September 2, 2024	Student and Staff Holiday
September 3, 2024	First Class Day for 15-Week Session
September 30, 2024	Payment Deadline for 10-Week Session
September 17, 2024	Official Census Date (11th Class Day) for 15-Week Session
October 7, 2024	First Class Day for 10-Week Session
October 15, 2024	Official Census Date (7th Class Day) for 10-Week Session
October 25, 2024	Mid-Term Grades Due for 15-Week Session
October 28, 2024	Registration Begins 25/SP (All Students)

November 8, 2024	Mid-Term Grades Due for 10-Week Session
November 15, 2024	Last Day to Drop with a “W” for 15-Week Session
November 25, 2024	Last Day to Drop with a “W” 10-Week Session
November 28-29, 2024	Student and Staff Holiday
December 10, 2024	Final Exams Begin
December 13, 2024	End of Semester classes (Classes may continue beyond this date as scheduled, e.g., Saturday)
December 16, 2024	All Final Grades Due by 10 a.m.

SPRING 2025	**25/SP Semester**
December 17, 2024	Payment Deadline for 15-Week Session
January 10, 2025	Spring Registration Ends
January 13, 2025	First Class Day for 15-Week Session
February 10, 2025	Payment Deadline for 10-Week Session
January 20, 2025	Student & Staff Holiday
January 28, 2025	Official Census Date (11th Class Day) for 15-Week Session
February 17, 2025	First Class Day for 10-Week Session
February 25, 2025	Official Census Date (7th Class Day) 10-Week Session
March 7, 2025	Mid-Term Grades Due for 15-Week Session
To Be Determined	Spring Break Week
March 24, 2025	Registration Begins 25/SU & 25/FA (All Students)
April 7, 2025	Mid-Term Grades Due for 10-Week Session
April 7, 2025	Last Day to Drop “W” for 15-Week Session
April 14, 2025	Last Day to Drop with a “W” for 10-Week Session
April 29, 2025	Final Exams Begin
May 2, 2025	End of Semester (Classes may continue beyond this date as scheduled, e.g., Saturday classes)
May 5, 2025	All Final Grades Due by 10 a.m.

SUMMER 2025	**25/SU Semester**
April 15, 2025	Payment Deadline for 15-Week Session
May 9, 2025	Summer Registration Ends
May 12, 2025	First Class Day for 15-Week Session
May 26, 2025	Student and Staff Holiday
May 28, 2025	Official Census Date (12th Class Day) for 15-Week Session
June 9, 2025	Payment Deadline for 10-Week Session
June 16, 2025	First Class Day for 10-Week Session
June 19, 2025	Student and Staff Holiday
June 25, 2025	Official Census Date (7th Class Day) 10-Week Session
July 4, 2025	Staff & Student Holiday
July 7, 2025	Mid-Term Grades Due for 15-Week Session
July 23, 2025	Mid-Term Grades Due for 10-Week Session
July 25, 2025	Last Day to Drop with “W” for 15-Week Session
August 7, 2025	Last Day to Drop with a “W” for 10-Week Session
August 19, 2025	Final Exams Begin
August 22, 2025	End of Semester (Classes may continue beyond this date as scheduled, e.g Saturday classes.)
August 25, 2025	All Final Grades Due by 10 a.m.

Note: Information applies to a 15-week semester for Fall, Spring and Summer. Contact the Executive Registrar for mini or flex sessions.

*Evening and weekend classes on or around holidays may be rescheduled or canceled at the request of the college and approval of the Vice Chancellor.

Mid-term dates and Last Day to Drop with a “W” will vary depending on the length of the class/section. Verify class information with the instructor for courses with start and end dates that differ from the calendar listed above.

- Official Day is 11th class day for Fall and Spring semesters and 12th class day for Summer semester.
- Refund Schedule will be 14th day for 70%, 19th day for 25%.
- Prorate payment due date to 19th day.

03. About the College

01. TSTC Mission

The Texas State Technical College mission is defined by the Texas State Legislature and published in Vernon’s Texas Education Code (TEC) Section 135.01:

Texas State Technical College System is a coeducational two-year institution of higher education offering courses of study in technical-vocational education for which there is a demand within the state of Texas.



The Texas State Technical College System shall contribute to the educational and economic development of the state of Texas by offering occupationally oriented programs with supporting academic coursework, emphasizing highly specialized advanced and emerging technical and vocational areas for certificates or associate degrees. The Texas State Technical College System is authorized to serve the state of Texas through excellence in instruction, public service, faculty and manpower research, and economic development. The system’s economic development efforts to improve the competitiveness of Texas business and industry include exemplary centers of excellence in technical program clusters on the system's campuses and support of education research commercialization initiatives. Through close collaboration with business, industry, governmental agencies and communities, including public and private secondary and postsecondary educational institutions, the system shall facilitate and deliver an articulated and responsive technical education system.

In developing and offering highly specialized technical programs with related supportive coursework, primary consideration shall be placed on the industrial and technological manpower needs of the state. The emphasis of each Texas State Technical College System campus shall be on advanced or emerging programs not commonly offered by public junior colleges.

02. Vision & Values

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.

Values

Excellence

Being held to and delivering a higher standard to our co-workers, ourselves, our students and Texas.

Accountability

Doing what needs to be done and being transparent about the resulting successes and failures.

Service

Delivering genuine experiences to fulfill the needs of our customers.

Integrity

Doing what is right and not wavering.

03. History of Texas State Technical College

Texas State Technical College (TSTC) was established in 1965 as the James Connally Technical Institute (JCTI) of Texas A&M University to meet the state's evolving workforce needs. This college was located in Central Texas at the former James Connally Air Force Base in Waco. At the time, Gov. John Connally predicted that it would be, "the most sophisticated technical-vocational institute in the country."

In 1967, JCTI expanded to include a South Texas campus in Harlingen. In 1969, the colleges separated from Texas A&M University and became an independent state system, with the name Texas State Technical Institute (TSTI), and its own Board of Regents. An additional campus was created in 1970 in the Texas Panhandle and in Sweetwater in West Texas. As the demand for quality technical education continued to grow, campuses were established in Abilene (1985), Breckenridge (1989), Brownwood (1991), Marshall (1991), East Williamson County, North Texas (2013) and Fort Bend County (2016). In 1991, TSTI was renamed Texas State Technical College.

Today, serving as the state's college for workforce and economic development, TSTC offers new, emerging and customized curriculum at 11 locations in Abilene, Breckenridge, Brownwood, East Williamson County, Fort Bend County, Harlingen, Marshall, New Braunfels, North Texas, Sweetwater and Waco. In addition, programs and customized training are offered at partnership centers throughout the state.

TSTC's statewide role and mission is to efficiently and effectively help Texas meet the high-tech challenges of today's global economy in partnership with business and industry, government agencies, and other educational institutions. TSTC has high graduation rates, exceptional postgraduate success rates, and an outstanding record in graduating individuals from diverse cultural and socioeconomic backgrounds. Students are served through traditional degree programs, short-term continuing education, and corporate training programs.

Among TSTC's strengths are its emphasis toward hands-on learning and its strong relationships with business and industry, state-of-the-art laboratories, residential campuses and a student-centered philosophy.

TSTC believes in people and their desire to be responsible and productive citizens. TSTC believes that technology is a force to be explored and channeled by people in a productive and responsible manner for the benefit of all humankind. Therefore, TSTC believes that all people should be provided with the educational opportunity to learn the skills necessary to perform meaningful work and pursue their goals as responsible citizens contributing to the welfare and success of their families, communities, state, nation and 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, TSTC has a location to fit your needs.

With 11 locations throughout Texas, TSTC is where you are. In addition, programs and customized training are offered at partnership centers throughout the state. 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

305 Booker St.
Brownwood, TX 76801

East Williamson County

1600 Innovation Blvd (CR 108)
Hutto, TX 78634

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

05. Governance and Accreditation

Governance

Texas State Technical College (TSTC) is governed by a nine-member Board of Regents (BOR) and operates under the leadership of the Chancellor and Chief Executive Officer, whom the board appoints. Board members are appointed by the governor to six-year staggered terms and are confirmed by the state Senate. 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

Gail Lawrence

Deputy Chancellor

Jonathan Hoekstra

Executive Vice Chancellor & Chief Operating Officer

Rick Herrera

Senior Vice Chancellor & Chief Campus Expansion Officer

Michael Bettersworth

Senior Vice Chancellor & Chief Marketing Officer

Chad Wooten

Vice Chancellor & Chief Financial Officer

Pamela Mayfield

Vice Chancellor & Chief Human Resources Officer

Cledia Hernandez

Vice Chancellor & Chief External Relations Officer

Kevin Semien

Vice Chancellor & Chief Campus Services Officer

Dale Bundy

Vice Chancellor & Chief Information Officer

TSTC Board of Regents
Tiffany Tremont, Chair

Ron Widup, Vice Chair

Curtis Cleveland, Ex Officio

Keith Honey

Lizzy de la Garza Putegnat

Kathy Stewart

Robb Misso

Ron Rohrbacher

Eric Beckman

Accreditation

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 SACSCOC's website, (www.sacscoc.org).

As an institutional accreditor, SACSCOC affirms the accreditation of an institution as a whole. 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.
TSTC is also a member of the American Association of Collegiate Registrars and Admissions Officers.

The following programs are accredited by the:

American Dental Association Commission on Dental Accreditation

- Dental Hygiene

Commission on Accreditation for Health Informatics and Information Management Education

- 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

- Surgical Technology

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

- 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 Technology

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

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

Equal opportunity shall be afforded to all TSTC employees and applicants for admission or employment 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, or other non-merit-based factors.

TSTC is committed to building and maintaining a learning/working environment that reflects diversity and improves opportunities for all, including all qualified individuals with disabilities. As part of this commitment, policies and procedures shall ensure that individuals with disabilities are not subjected to discrimination or denied full and equal access to programs or services offered by TSTC. TSTC shall afford reasonable accommodations upon self-disclosing to the designated offices/personnel (in accordance with Part 84 of Title 45, the regulation implementing Section 504 of the Rehabilitation Act of 1973). We invite employees with disabilities that require reasonable accommodations to contact the TSTC Human Resources office. Students with disabilities that require reasonable accommodations can contact the TSTC Access and Learning Accommodations office.

TSTC reserves the right to limit the enrollment of any program and to make any changes in the provisions of this catalog when such action is deemed to be in the best interest of the student or TSTC. In keeping with the policies of the TSTC Board of Regents and in conformance with the laws of the state of Texas, TSTC reserves the right to change any of this catalog's provisions, without notice or obligation. This catalog is not a legal document and does not constitute a contract between TSTC and the user.

07. Instructional Philosophy

TSTC trains students to be employees for tomorrow’s careers, helping to strengthen the economic competitiveness of Texas and improve the lives of its people. TSTC believes in “learning by thinking and doing.” To ensure that the curriculum is relevant to employment, TSTC continuously seeks and fosters input from industry partners, preparing students with the technical knowledge, skills and abilities they need to be successful in their chosen careers. TSTC takes pride in recruiting faculty that have demonstrated competencies in their teaching discipline. TSTC's facilities and equipment provide students with significant opportunities to apply what they learn.



08. The TSTC Foundation

The TSTC Foundation supports TSTC’s 10 campus locations, its students, career programs, faculty and staff. Its purpose is to support the critical needs of students through scholarships, emergency aid, tools and equipment and to provide funds to enhance TSTC's ability to provide new and emerging technical programs to support the Texas workforce. This support is used to help improve student success, strengthen the technology in labs, and provide flexibility to the priorities of the college to support the state’s growing workforce demands. The TSTC Foundation is a 501(c)3 not-for-profit organization for the sole benefit of TSTC and its students.



09. Industry Advisory Committees

Industry Advisory Committee members guide curriculum creation and development by advising TSTC on the latest skills, knowledge and abilities that industry expects from its employees. Effective industry advisory committees create and maintain partnerships between TSTC and the industries and communities it serves. It is the dialogue between advisory committee members and TSTC that provides valuable, real-world input into the workplace that students will enter. This partnership fosters a shared responsibility for preparing students for a place in today’s workforce and society.

04. Student Recruitment

01. Student Recruitment

Campus Tours

Whether you're a prospective student, an applicant, a family member or friend, Texas State Technical College welcomes you to tour a campus near you and the program of choice prior to enrolling.

To schedule a tour visit:events.tstc.edu

05. Enrollment Information

01. Eligibility Requirements

General Requirements

It is the policy of Texas State Technical College (TSTC) that the College admit applicants who declare their intention to enroll in the College. Applicants are allowed to enroll in their selected program upon satisfactory completion of all enrollment and program entrance requirements.

Equal opportunity shall be afforded within Texas State Technical College to all applicants for admission without regard to race, color, religion, gender, national origin, age, genetic information, disability or veteran status.

Categories

Prospective students shall be admitted to TSTC as regular students under the following conditions:

A. **High School Graduate** - A student shall be admitted upon proof of graduation from an accredited high school with submission of an official high school transcript. A student who graduated from a homeschool shall be admitted once a notarized record of the completed high school equivalent work and the date of successful completion is submitted. This work shall be consistent with TEA minimums for high school completion.
B. **College Transfe**r - A student shall be admitted who had prior attendance at a regionally accredited college or university. A transfer student shall be admitted upon receipt of official transcripts from all previously attended institutions of higher education. Official high school transcripts may also be required for financial aid purposes. Transcripts shall be considered official only 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).
C. **General Education Development Test (GED**) - A student shall be admitted upon successful completion of the GED or a recognized equivalent as certified by a state education agency or a state authorized examination that the state recognizes as the equivalent of a high school diploma. A student shall be admitted upon receipt of 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

Prospective students may be granted exceptional admission if they do not qualify under one of the previous categories for regular admission. Students may be admitted under one of the two following Individual Approval categories:

A. Individual Approval A:
    i. Students age 16 or older who are graduates of an unaccredited high school may be admitted through exceptional admission.
    ii. Students age 17 or older who are attending a course of instruction to prepare for the high school equivalency examination and/or who are considered to be concurrently enrolled in high school or homeschool may be admitted through exceptional admission. High school counselor or parent recommendations shall be required.
    iii. Students 18 or older without a high school diploma or CHSE/GED may be admitted through exceptional admission.
B. Individual Approval B:
    i. Dual enrollment students who are currently attending a high school and do not have a diploma or GED may be admitted through exceptional admission.

Enrollment Procedures

A. Submit an Application for Admissions form, which includes core residency questions and a declaration of intent to enroll as a degree-seeking or non-degree-seeking student. All applicants applying for admissions to the College shall be required to complete the information regarding felony charges on the Application for Admissions form. Applicants who answer “Yes” will be required to complete a “supplemental form” and may be required to submit additional documentation.
B. Submit applicable documents based on the appropriate admission category.
C. Comply with applicable testing requirements:
    i. Submitting TSI Assessment test results; or
    ii. Submitting documentation of TSI exemption or waiver; or
    iii. Taking the TSI Assessment test.
D. Submit compliance with any immunization-related requirements as specified by law.
E. Submit proof of compliance with any established and approved program entry level standards.

Note: All new students are encouraged to attend New Student Orientation.

All documents submitted by applicants who do not register for the term indicated on the admission application will be

retained for one year in the Office of the Registrar. At the end of one year, all records are discarded unless the applicant has notified the Enrollment Center of continued interest in attending TSTC. All documents become the property of TSTC and are not returned to the students.

Former TSTC Students

College credit students who were previously enrolled at TSTC, but have not attended TSTC for more than one year, must reapply by completing the admission enrollment procedures and providing the appropriate required documents.

A. Reapplying for admission after an interruption of enrollment of more than one year prior;
B. Comply with applicable testing requirements;
C. Comply with any immunization related requirements as specified by law;
D. Submissions of official transcripts for any College/University previously attended, TxCHSE or High School transcript.

Note: Students who have an interruption or break in the enrollment of more than one year at TSTC and return later to complete their program of study may be required to update their program of study due to changes in the curriculum or modality.

Campus Immunizations

Students who will be attending classes on campus and are ages 22 or younger are required by Texas state law to obtain the Bacterial Meningitis vaccination. Additional vaccinations or boosters may be required for admission into specific programs. Students are encouraged to contact their programs of interest for further details.

02. Academic Fresh Start

Texas Senate Bill 1321, entitled “Right to an Academic Fresh Start”, allows a person who is a resident of Texas to apply for admission and not have coursework completed 10 or more years prior to the date of anticipated enrollment included as consideration in the admission decision. This allows the student to begin a new course of study with a clear academic record.

A. This is an all-or-nothing option. Students are not able to pick and choose which courses to ignore and which courses to count. This option clears only the student’s academic record. If the student chooses the “Academic Fresh Start” option, the student does not receive any credit for any courses taken 10 or more years prior to the re-enrollment. This means that:
    i. Courses taken previously cannot be used to fulfill new prerequisite requirements.
    ii. Courses taken previously cannot be counted toward a new degree.
    iii. Courses taken previously will not be counted in the student’s GPA calculation.
B. The student must still complete the usual admissions process, including providing information on all colleges or universities previously attended and provide official copies of transcripts from all schools attended.
C. Once the “Right to an Academic Fresh Start” provision has been claimed, and the student has enrolled, the provision cannot be reversed.

Note: "Academic Fresh Start" does not apply to the Standards of Academic Progress for Financial Aid. Therefore, students may not qualify for financial aid based on prior academic performance.

03. Registration for Classes

After the enrollment requirements and/or students are chosen for programs with selective admissions criteria, students may register for credit classes. Consult with your enrollment coach or faculty advisor to review the TSTC course schedule for more information on these classes. Registration for Workforce Training and Continuing Education programs are different from those described in this section. Contact the Workforce Training and Continuing Education Office for more information.

TSTC reserves the right to cancel a scheduled class due to insufficient enrollment, instructional capacity or other institutional need. TSTC will notify students of cancellations and issue refunds for canceled classes.

Change of Personal Information

Students are responsible for maintaining accurate personal information on their educational records to ensure communication with college departments. Official changes to personal information can be made in Workday or at the Enrollment Center. Some changes require additional documentation, as outlined below. All changes are processed immediately upon receipt.

- Name changes can be submitted through Workday or at the Enrollment Center. Students must provide legal documentation, such as an original marriage license or certificate, passport, court order, divorce decree, birth certificate or naturalization papers. A driver’s license or Social Security card will not be accepted. Name changes for graduation candidates must be completed by the census date of the semester the student is eligible for graduation.
- A Social Security number can be submitted at the Enrollment Center or directly in Workday. The request must be

accompanied by an original Social Security card and photo ID identification as documentation.

04. Restricted Admission Programs

The following programs at TSTC have additional application requirements, such as additional immunizations, occupational licenses (HB1508), exams, criminal background checks, drug screenings and prerequisite courses. Visit the program website for more information.

- Aircraft Pilot Training Technology
- Auto Collision & Management Technology - Tesla specialization program
- Automotive Technology - Chrysler & Tesla specialization programs
- Chemical Dependency Counseling
- Dental Hygiene
- Emergency Medical Services
- Health Information Technology
- Industrial Systems - Advanced Manufacturing Technology
- Diesel Equipment Technology - John Deere
- Nursing
- Surgical Technology

05. Dual Credit Courses

The TSTC Dual Credit program provides an opportunity for high school students to earn college and high school credit simultaneously while still in high school. High school partners must have an official partnership with TSTC by way of a memorandum of understanding and meet applicable eligibility requirements for students to enroll in courses. Active dual credit students are to abide by the rules and regulations set forth in this catalog and Student Handbook. For more information, visit the Dual Credit website or contact the Dual Credit Office by phone at 254-867-3089 or by email at dual.enrollmemt@tstc.edu.



06. Veteran Services

Veteran Services will serve as a centralized point of contact to assist active duty members, veterans, and their family members navigate college resources to ensure a successful college experience. The Veteran Services staff serve as advocates for student veterans and act as liaisons between the student and other college offices, community resources, and the Veteran Affairs Department.

The following services are provided by Veteran Services:



- Application support for FAFSA, admissions, Hazlewood and GI Bill®.
- College policies and procedures support.
- On-campus job information and referral.
- Veteran benefits information and assistance.
- Referrals for veterans and their dependents.
- Educationally related printing and faxing support for veterans and their dependents.
- Assistance with scholarship searches and application process.
- Referral to campus Advocacy and Resource Center.
- Tutoring support and referral.
- Computer lab access and support.
- Academic advisement support.
- College credit evaluation support.

Veterans Guide For Success

Step 1:

Apply for admissions and complete the required admissions process.

Veterans are recommended to check their residency status with the Enrollment Center.

If Texas is your home of record and you have been discharged within 12 months, please submit a copy of your DD214 (member 4) to the Enrollment Center. Please visit www.collegeforalltexans.com to view other residency waivers available for service members, veterans and/or their dependents. An acceptance letter containing your student ID number will be mailed to you.

Step 2:

Apply for your GI Bill® and/or Texas Hazlewood Act.

Apply for your GI Bill® benefits online atwww.va.gov.

- Form 22-1990 for veterans using (Chapter 30, 33, 1606).
- Form 22-1900 for veterans using Veteran Readiness and Employment, Chapter 31.
- Form 22-1990e for dependents and spouses using Post 9/11 GI Bill® (Chapter 33) transfer of entitlement.
- Form 22-5490 for dependents and spouses using Dependents' Education Assistance (Chapter 35).

You will receive a Certificate of Eligibility (COE) letter from the Veterans Administration department in 30 days. Please submit a copy of your COE to the Veteran Services office.

If you have previously used your GI Bill® benefits at another school, then you will have to complete a transfer form.

- Form 22-1995 for veterans.
- Form 22-5495 for dependents or spouses.

Apply for the Texas Hazlewood Tuition Exemption atwww.tvc.texas.gov.

Step 3:

Submit all required documentation.

Veterans are required to submit the following documentation to the Veteran Services Department:

1. Certificate of Eligibility (COE).
2. DD Form 214 (member 4).
3. Official military transcripts (request official military transcripts from the Joint Service Transcript System or Community College of the Air Force (CCAF)) and university/college transcripts (submit to the Enrollment Center or enrollment coach).
4. Valid State ID.

Dependents using GI Bill® Chapter 35 or Chapter 33 transfer of entitlements must submit the following documents:

1. Certificate of Eligibility (COE).
2. DD Form 214 (member 4) - Chapter 33 transfer of entitlement is exempt if the veteran is on active duty.
3. Veterans service-connected compensation claim, decision letter (Chapter 35).
4. University/College transcripts (submit to the Enrollment Center or enrollment Coach).
5. Valid State ID.

Step 4:
Apply for Financial Aid



Service members, veterans and their dependents are encouraged to apply for financial aid using the Free Application for Federal Student Aid. To learn more about financial assistance, please visit our Financial Aid website.

For information on veteran benefits, visit the Paying for College section.

Contact Information

phone: 888-878-2003

email: veteranservices@tstc.edu

Hazlewood Tuition Exemption

TSTC is authorized to grant tuition and fee waivers to qualified resident and nonresident students based on Texas Higher Education Coordinating Board rules. For details, see “Tuition Waivers and Exemptions” in the Tuition and Fees section of this catalog.

Please visit the Texas Veterans Commission (www.tvc.texas.gov) website for more information and eligibility requirements. All Hazlewood Tuition Exemption Application must be submitted to the Veteran Services office for processing.

NOTE:

- Effective Fall 2014, a law has been adopted by state legislation (SB 1210, passed in 2013) requiring students to meet the Financial Aid Standards of Academic Progress for certain waivers and exemptions such as the Hazlewood Tuition Waiver. These standards are outlined under the TSTC Satisfactory Academic Progress (SAP policy for Financial Aid).
- Chapter 33 Veterans who are eligible for Hazlewood can use Hazlewood to “stack” on top of their 33 benefits to pay any remainder of tuition and fees only not paid by Chapter 33 benefits.
- All students must apply for Hazlewood each semester they intend to use the tuition exemption. You MUST be enrolled in classes in order for the exemption to be posted. Please do not submit the application before enrolling.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at www.benefits.va.gov/gibill.

07. Texas Success Initiative (TSI) Requirements

In the fall 2013 semester, the Texas Success Initiative (TSI) established college readiness standards for incoming students who have declared a certificate level II or associate degree program (42 hours or more) and are not otherwise exempt from testing. The TSI Assessment 2.0 (TSIA2) is designed to help higher education institutions determine if students are ready for college-level coursework in the general areas of reading, writing and mathematics. If the student does not meet testing requirements, the assessment will also help with student placement in courses that will aid in the preparation of student skills for college-level classes. For the latest exemptions, visit the TSI Testing and Exemptions webpage.

TSI Advisement

Students who do not meet TSI standards must meet with the identified enrollment coaches at each campus. Enrollment coaches will work with students to establish an individualized Academic Success Plan. The Academic Success Plan is developed for individual students according to their specific needs and may include enrollment in developmental courses, tutorials, laboratories and/or other non-course-based activities to prepare the student for college-level coursework. The plan will specify the appropriate measure for determining a student's college readiness. Academic Success Plans may include provisions for students to retake the TSIA2, subject to availability. For more information, please visit the Enrollment Center.

TSI College Readiness Standards

The following information provides the minimum passing scores on the TSI Assessment (TSIA) taken Aug. 26, 2013, to Jan. 10, 2021, that are valid for five years from the date of test.

Reading: 351 or higher

Writing: Essay score of 5 or higher; or essay score of 4 and multiple-choice score of 340 or higher

Math: 350 or higher

The following information provides the minimum passing scores on the TSI Assessment 2.0 (TSIA2) taken Jan. 11, 2021, or after, which are valid for five years from the date of test.

ELAR: Essay score of 5 or higher and multiple-choice score of 945 or higher; or essay score of 5 or higher and multiple-choice score of 910-944 and diagnostic score of 5 or higher

Math: 950 or higher; or 910-949 and diagnostic score of 6

TSI Testing Schedule

The TSIA2 is administered at the Testing Center. Check with the Testing Center for specific dates and times at each campus. The TSIA2 is computer-based and can only be offered in a paper format for those 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

TSTC has designated courses to satisfy requirements with TSI standards. Students who transfer from regionally accredited institutions of higher education with grades of D or higher in these courses (or equivalents) are determined to be "college ready." Students must submit official transcripts indicating successful completion of the course(s). For more information, please visit the Enrollment Center.

06. Paying for College

01. Tuition & Fees

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

The cost of attending TSTC varies depending on a variety of factors, such as a student's residency status, whether or not the student lives on campus, the program of study and any other services that the student may need. The Financial Assistance 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 that students need for tuition, housing, books and other educational items. It is not intended to completely fund a student's education.

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

Tuition

A student's tuition is determined by residency status, the number of hours taken, the type of course and/or program and

whether the courses are for college credit or for continuing education or workforce training. Tuition rates are subject to change on a semester-by-semester basis as approved by the Board of Regents.

Residency Classifications

Texas Resident: You have established a legal domicile in and have lived in Texas for the past 12 months.

Nonresident: You are a U.S. citizen who has not lived in Texas for the past 12 months.

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.The sum cost of the program tuition, books, tools and supplies is divided evenly between the designated number of semesters it takes to finish the program.

To be eligible for bundled pricing, a student must be a brand new student to TSTC with no previous college credits who plans to pursue an associate degree in either: Automotive, HVAC, Business Management or Advanced Manufacturing beginning in the Fall 2024 semester. A student must also be classified as a state resident to be eligible. Students who are transferring from other institutions or have previous college credits are not eligible for bundled pricing.

Terms of Bundled Pricing

A student must have continuous enrollment from the start of the degree until completion to continue in Bundled Pricing. In the event that a student drops below full time hours, experiences a break in enrollment, changes to another degree type, changes to another major, withdraws from the college or falls into either academic or financial aid suspension, then the student forfeits the benefit of the Bundled Pricing program. The student will then incur charges of any remaining tuition as outlined by TSTC, plus the remaining cost of all tools and supplies. After a student has signed the Bundled Pricing agreement, made payment arrangements and picked up their tools and supplies, they are locked into Bundled Pricing. A student can opt into Bundled Pricing until the first day of class. For more details on the terms and conditions, see form TSTC-0-ES-122.

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):
C-172 Solo

$121 per hour.
Fuel surcharge is $42 per hour.

PA28R Solo

$154 per hour.

Fuel surcharge is $42 per hour.

PA44-180 Solo

$192 per hour.

Fuel surcharge is $84 per hour.

Dual and Pre- and Post-Flight Review and Instruction: $65 per hour.

Fuel is based on (current price per gallon x gallons per hour) + 10 percent. Pre- and post-flight review is instructor and student time only; it is not flight time.

Note: FAA examiner fees for practical flight exams are typically $800 and charged by the examiner and are the responsibility of the applicant for payment, except for the instructor rating, which is typically $1,000. FAA written exams are currently $165 per test and the personal responsibility of the applicant for payment.

$1,000 Tuition Rebate for Certain Undergraduates

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

Students must meet the following eligibility requirements:

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

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

Student Payments

Student charges for tuition and fees are due and payable by dates published each semester to ensure that the student's schedule is not affected. All tuition and fees may be paid by cash, check or credit card at the Student Accounting office or online through the student's OneTSTC account. 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.

To enroll in a payment plan, please log in to Workday on your computer using your TSTC OneID username and password by visiting login.tstc.edu. Click on thetouchnet - Touchnet Student Paymentstile to log in to Touchnet. Please click on "Payment Plans" to enroll in a new payment plan. 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.

Past-Due Accounts

A student with a past-due unpaid balance is considered delinquent. A delinquent student 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 a student's personal credit rating. A student with a delinquent account is responsible for the fees of any collection agency, which may be based on a percentage, with a maximum of 30 percent of the debt, and all costs and expenses, including reasonable attorney fees that TSTC incurs in such collection efforts after internal collection efforts have failed to result in the full payment of the student’s account. Student accounts may be sent to an outside collection agency and may be reported to one or more credit bureau reporting service(s).

02. Traditional Course Tuition Table

Notice: The charges listed may change if the TSTC Board of Regents approves necessary updates during the academic year. During your last semester of your program you are allowed to add an additional program of study, if you plan to continue your education. During that semester you will billed for your primary program of study.

For information on bundling pricing, see the Tuition & Fees section of the catalog.

Returned-check fee: $50, which is applicable for all types of transactions.

Tuition Table Effective Fall 2024

Texas Resident Students - Tier 1
Programs: Advanced Manufacturing Technology, Aircraft Airframe Technology, Aircraft Powerplant Technology, Associate Degree Nursing (ADN), Electrical Lineworker & Management Technology, Instrumentation Technology and 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: Biomedical Equipment Technology, Building Construction Technology, Computer Networking & Systems Administration, Culinary Arts, Cybersecurity, Diesel Equipment Technology, Electrical Power & Controls, Medical Imaging Systems Technology and Vocational Nursing.

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: Architectural/Civil Drafting Technology, Architectural Design & Engineering Graphics Technology, Auto Collision and Management Technology, Automotive Technology, Business Management Technology, Chemical Dependency Counseling, Computer Programming Technology, Dental Hygiene, Digital Media Design, Education & Training, Electrical Construction, Emergency Medical Services, Energy Efficiency Specialist, Engineering Graphics & Design Technology, Health Information Technology, HVAC Technology, Industrial Systems-Electrical, Industrial Systems-Mechanical, Medical Office Specialist, Occupational Safety & Environmental Compliance, Precision Machining Technology, Process Operations, Solar Energy Technology, Surgical Technology and Wind Energy Technology.

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, Aircraft Pilot Training Technology, Automation & Controls Technology, Avionics Technology, Biology, Computer Science, Electromechanical Technology, Engineering, Mathematics, Mechatronics Technology, Physics, Plumbing & Pipefitting Technology, Pre-Allied Health, Robotics & Industrial Controls Technology, Visual Communication and Web Design & 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: Advanced Manufacturing Technology, Aircraft Airframe Technology, Aircraft Powerplant Technology, Associate Degree Nursing (ADN), Electrical Lineworker & Management Technology, Instrumentation Technology and 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: Biomedical Equipment Technology, Building Construction Technology, Computer Networking & Systems Administration, Culinary Arts, Cybersecurity, Diesel Equipment Technology, Electrical Power & Controls, Medical Imaging Systems Technology and Vocational Nursing.

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: Architectural/Civil Drafting Technology, Architectural Design & Engineering Graphics Technology, Auto Collision and Management Technology, Automotive Technology, Business Management Technology, Chemical Dependency Counseling, Computer Programming Technology, Dental Hygiene, Digital Media Design, Education & Training, Electrical Construction, Emergency Medical Services, Energy Efficiency Specialist, Engineering Graphics & Design Technology, Health Information Technology, HVAC Technology, Industrial Systems-Electrical, Industrial Systems-Mechanical, Medical Office Specialist, Occupational Safety & Environmental Compliance, Precision Machining Technology, Process Operations, Solar Energy Technology, Surgical Technology and Wind Energy Technology.

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, Aircraft Pilot Training Technology, Automation & Controls Technology, Avionics Technology, Biology, Computer Science, Electromechanical Technology, Engineering, Mathematics, Mechatronics Technology, Physics, Plumbing & Pipefitting Technology, Pre-Allied Health, Robotics & Industrial Controls Technology, Visual Communication Technology and Web Design & 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	$1,870	$1,859	$3,729
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

Tuition Table Effective Fall 2024

Notice: The charges listed may change if the TSTC Board approves necessary updates during the academic year. Part-time students enrolled in subscription-based programs (6 hours) will pay at half the rate listed below. Additional semester credit hours (up to 12 hours) will be charged at the incremental semester credit hour rate. During your last semester of your program you are allowed to add an additional program of study, if you plan to continue your education. During that semester, you will be billed for your primary program of study.

For information on bundling pricing, see the Tuition & Fees section of the catalog.

Returned-check fee: $50, which is applicable for all types of transactions.

Texas Resident Students - Tier 1

Programs: Electrical Lineworker & Management 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	$2,419
8	$200	$2,256	$2,456
9	$225	$2,538	$2,763
10	$250	$2,820	$3,070
11	$275	$3,102	$3,337
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: Computer Networking & Systems Administration and Cybersecurity

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, Automotive Technology, Business Management Technology, Chemical Dependency Counseling, Computer Programming, Digital Media Design, Education & Training, Engineering Graphics & Design, Health Information Technology and HVAC

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: Academic Core, Biology, Computer Science, Engineering, Mathematics, Physics and Web Design & 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	$300	$2,028	$2,328
14	$300	$2,028	$2,328
15	$300	$2,028	$2,328

Nonresident Students - Tier 1

Programs: Electrical Lineworker & Management Technology

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: Computer Networking & Systems Administration and Cybersecurity

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	$2,698
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, Automotive Technology, Business Management Technology, Chemical Dependency Counseling, Computer Programming, Digital Media Design, Education & Training, Engineering Graphics & Design Technology, Health Information Technology and HVAC

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: Academic Core, Biology, Computer Science, Engineering, Mathematics, Physics and Web Design & 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	$2,148	$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 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.The sum cost of the program tuition, books, tools and supplies is divided evenly between the designated number of semesters it takes to finish the program.

For more information, please see the Tuition and Fees page.

Program	Credit Hours	Cost of Tuition	Cost of Supplies	TOTAL Cost of Tuition & Supplies	Price Per Semester
Automotive Technology	60	$13,920	$4,128	$18,048	$4,500
HVAC Technology	60	$13,920	$4,050	$17,970	$3,500
Business Management Technology	60	$13,920	$1,356	$15,276	$2,500
Advanced Manufacturing Technology	60	$1,8420	$3,078	$2,1498	$3,500

05. Fees

Student fees are determined by a variety of factors. Not all of these fees apply to Workforce Training & Continuing Education programs. Contact Student Accounting for more information.

Fees for Fall 2024 are as follows:

Nonresident E-Learning Fee

$300 per semester credit hour.

For out-of-state residents enrolled in online learning credit courses. Courses are exempt from all other state and designated tuition.

Testing Center Exam Fee

Cost of exam.

Applies to tests taken at TSTC Testing Centers and to TSTC Challenge Exams. Includes fee for test administration.

Challenge Exam Fee

$150 per exam.

Fee charged per exam. Validate prior learning and accelerate through course.

Program-specific Fees and Costs

Varies.

For some credit programs.

Continuing Education/Workforce Training Fees and Costs

Varies.

For some courses.

Out-of-State Resident and Worker Continuing Education Tuition

At least twice the continuing education tuition rate for the associated course section.

For nonresidents who are brought from outside the state by their employers to attend the course.

Credit Award Evaluation Fee

$25 per evaluation.

Applies to evaluation of CEUs and/or learning for the purpose of awarding TSTC semester credit.

External Certification of Specialty

Cost of exam.

Accident Insurance

$14 Per Academic Year.

Locker Rental Fee

$25 per semester.

Voluntary fee to reserve a locker for a semester.

Background Security Check

Cost of security check.

Required for certain programs.

Student ID Replacement Fee

$10 per card.

Digital Materials Fee

Cost of materials, including administrative fee.

Varies by course.

Installment Plan Fee

$25 per semester per installment plan.

Installment Plan Late Fee

$25 after 7 business days grace period.

Returned-check Fee

$50 per check.

Audit Fee

Applicable tuition plus $25 per semester credit hour.

Concurrent Enrollment Fee

Regular tuition/fee charges apply.

Handicap Parking Violation

$100

Moving Violation

$40

Other Offenses
$25—First offense.
$50—Second offense.
$100—Third offense.

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

06. Waivers and Exemptions

This section describes tuition waivers and exemptions for college credit courses. Students classified as Texas Residents for purposes of tuition assessment may be eligible to have all or part of their state tuition and/or designated tuition waived if they qualify for one of the waivers or exemptions. Contact the appropriate office for additional information and to determine eligibility.

In Fall 2014, a law was adopted by State Legislation (SB 1210, passed in 2013). The law requires that students 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. To request an appeal if you fail to meet SAP for a term, you will need to contact your enrollment coach.

Waivers & Exemptions for Residents



Students who are the highest-ranking graduate of their high school class (Valedictorian).

Contact: Student Accounting

High school graduates who received TANF (Temporary Assistance for Needy families) benefits while in high school.

Contact: Student Accounting

Children of POWs and MIAs as certified by the U.S. Department of Defense.

Contact: Veteran Services

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

Students classified as residents or nonresidents for purposes of tuition assessment may be eligible to have all or part of their state tuition and/or designated tuition waived if they qualify for one of the waivers or exemptions listed. Contact the appropriate office for additional information and to determine eligibility.

Waivers & Exemptions for Residents or Nonresidents

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

Hazlewood Tuition Exemption for Veterans and their dependents (Hazlewood)

Contact: Veteran Services

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

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

Contact: Human Resources

Students classified as nonresidents of Texas for purposes of tuition assessment may be eligible to pay resident rates if they qualify for one of the waivers or exemptions listed.

Contact: Enrollment Center

Waivers & Exemptions for Nonresidents

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

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

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

Contact: Student Accounting

Students whose families transferred to Texas as a part of the State’s plan for economic development. 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

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

Nonimmigrant aliens residing in Texas in accordance with NATO treaties and their spouses and children.
Contact: Student Accounting

Students who reside not more than 100 miles from the boundary of Texas with another state.

Contact: Student Accounting

Documentation should be submitted by the third class day of the semester.

07. Installment Payment Plan

College credit students may pay their registration charges (state tuition and designated tuition), campus housing (other than Harlingen family and Waco nonstudent housing) and meal plans on an installment payment plan. In accordance with state law, these students may pay their state and designated tuition in installments for the fall and spring semesters and for certain summer terms.

In order to validate the payment plan option, the initial payment and the signed Installment Agreement must be completed online through the TSTC Portal (or in person) prior to published deadlines.

The payments are due as follows:

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.

A student who elects to pay in installments will:

1. Pay a $25 installment plan fee.
2. Be responsible for making payments on or before the due dates established at the time of registration.
3. Be charged a late fee of $25 for each payment made more than seven business days after the payment is due.
4. Not be able to obtain official copies of his/her student records until the debt is paid in full.
5. Be at risk of being dropped or barred from attending classes until the debt is paid or acceptable arrangements are made with Student Accounting.
6. And, be responsible for payment of any remaining balance upon withdrawal from the College.

08. Emergency Tuition Loan

College credit students who are unable to pay their state and designated tuition at the time of registration because of financial hardship may be eligible for emergency tuition loans. Funds are limited and the student must meet several qualifications. Emergency Tuition Loans are due in full approximately 30 days after first class day. Contact Student Accounting for more information.

09. Housing Fees

Required items include the Housing Application with the appropriate deposit, the release of Background Information Form and the nonrefundable application fee.

Please see the Housing Office website for information regarding room and board.

10. Student Insurance

Students may purchase accident insurance, malpractice (liability) insurance or needlestick insurance through Student Accounting (cashiers). Coverage is available each semester through the census date of the student's class(es). Please see the cashiers for rates.

11. Refunds

Refunds for Changes in Enrollment

The following definitions apply when calculating refunds for changes in enrollment. Changes must occur by the published deadlines. Reduction in course load occurs when a student drops a course(s) having more credit hours than he/she adds, resulting in the student being enrolled in fewer credit hours overall. Withdrawal occurs when a student completely ends his/her enrollment at the College for the current term.

Credit courses are courses for which a student is eligible to earn semester credit hours toward an institutional award, certificate or associate degree. Credit courses also include support courses required for the student’s enrollment, such as developmental education, etc.

Refunds for Drops/Reduction in Course Load

Students who drop credit courses and reduce their course loads while remaining enrolled at the College will have their state and designated tuition refunded, based on the official drop date recorded by the enrollment coach according to the following schedule. Students who concurrently add and drop the same number of credit hours will not be charged or refunded for these simultaneous transactions if they occur by the published deadlines.

Refunds for semester credit courses are calculated using a formula based on the number of weeks scheduled for a term or class. Students who are enrolled in semester credit hour courses who drop a class or withdraw from school prior to the first class day will receive a 100 percent refund.

Students in semester credit hour courses who officially withdraw from school or drop a course after classes begin will have their state and designated tuition and fees refunded according to the following schedule unless the fees are specifically designated as nonrefundable. Class days are defined as calendar days during which classes are normally scheduled and not the specific days a particular class meets.

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

A refund of normally nonrefundable fees could be approved in cases when the student is not accepted for enrollment by TSTC or when a class is canceled. TSTC reserves the right to withhold refunds when a student is suspended for disciplinary reasons. No refunds will be processed until time has elapsed for a check to clear the bank. Refunds are given to a student after receipt of the withdrawal notice from the Student Enrollment Center. Cash refunds are not permitted. Financial aid balances and other credit balances are disbursed via the BankMobile Card on the date announced at registration.

Refunds for Federal Financial Aid Recipients

Special refund requirements apply to students who receive federal aid that is classified as “Title IV” funds. Title IV funds include awards such as Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), William D. Ford

Federal Direct Loans, PLUS loans and other federal awards. Students must attend classes to remain eligible for federal financial aid. Students who consider withdrawing from all classes before completing 60 percent of the semester should contact the Enrollment Center to learn how this will affect their financial aid.

If a student reduces a course load or withdraws from TSTC, the College and/or the student may be required to return federal funds awarded to the student. The student may be eligible for a refund of a portion of the state and designated tuition paid to TSTC for that term.

An unofficial withdrawal is when the student stops participating in all the classes during the semester, and all final grades are F's. Students will be responsible for repaying federal aid determined by a return of Title IV calculation, based on the last date of participation, unless an instructor certifies and documents that the student was participating in at least one class after the 60 percent point of the term or until the end of the term. A term may consist of one or more blocks or modules.

If the student received financial assistance, the refund is returned to the grant, scholarship or loan sources from which the assistance was received.

A federal formula dictates the amount of Title IV aid that must be returned to the federal government by the College and the student. This formula applies to a student who is receiving Title IV funds if the student withdraws 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 number of calendar days in the term. Scheduled breaks of five consecutive days or more are excluded from this calculation.

If any funds are 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 are repaid before any funds are returned to the student. Funds released to a student due to a credit balance on the student’s account do not relieve the student’s obligation to repay Title IV funds when the student withdraws.

Order of Return of Title IV Funds

A school must return the Title IV funds to the programs for which the student received aid during the payment period or period of enrollment as applicable, 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 the entire refund procedures for Financial Aid students or about the calculation of refund amounts, contact the Student Enrollment Center.

Campus Store Refunds

For restocking fees and return deadlines, contact your local Campus Store.

Textbooks returned must be in sellable condition without broken packaging and original receipt provided by the customer.

Tools, supplies and consumables are nonrefundable, unless they are defective. If they are defective, the items must be returned within three weeks of purchase and must be accompanied by the sales receipt in order to receive a refund.

Housing Refunds

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

- Refundable portion of security deposit or remaining balance after charges.
- No refunds of rental fee will be given during the last 10 school days of the semester.
- Rent refunds are based on a pro-rated formula.

Refund of Other Fees

No refunds are given for installment plan fees. No refunds are given for health insurance, malpractice insurance and other miscellaneous student-requested fees after expenses have been incurred by the College.

12. Financial Aid

TSTC offers a variety of financial assistance programs to help eligible students with the cost of attending TSTC. The funds provided through these programs can be in the form of a grant (Federal or State), payment for part-time employment (Federal or State Work-Study), Federal Direct Loan, scholarship(s) or a combination of these programs.

A grant is a gift that does not need to be repaid.

The Work-Study Program is part-time employment that allows students to earn money and provides them with the opportunity to gain work experience.

Scholarships are funds that are awarded to students to help them with the cost of their education, and scholarships do not have to be repaid. A student may receive a scholarship based on academic merit, financial need or for other criteria set forth by scholarship donors.

A Federal Direct Loan is borrowed money and must be repaid with interest.

TSTC's philosophy is to provide financial assistance to students who would otherwise be unable to pursue a postsecondary education.

See the Financial Aid web page for a complete listing of financial assistance programs.

13. Types of Financial Aid

A variety of resources are available for financial assistance at TSTC. Some of these are included in the following list. 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 earned a bachelor's, graduate or professional degree. It is intended to be the base of a student's financial aid offer. Eligibility is based on the student's FAFSA need analysis results, the cost of attendance and enrollment status. Students are only eligible to receive six academic years (600%) of Pell Grant funds, which is referred to as Lifetime Eligibility Used. You may not receive Federal Pell Grant funds from more than one school at a time.

Federal Supplemental Educational Opportunity Grant (FSEOG): This federal aid program helps college students who have exceptional need, be a U.S. citizen or eligible noncitizen, have a valid Social Security Number, maintain satisfactory academic progress and are registered with Selective Service, unless exempt. The amount of the FSEOG varies according to the availability of other grants, scholarships, loans and student employment. FSEOG funds are limited and are awarded on a first-come, first-served basis.

Texas Public Education Grant (TPEG): This state program provides financial assistance in obtaining a postsecondary education to Texas residents, non-residents or foreign students. Eligibility is based on a student's financial need. In addition to having unmet need a student must be registered for Selective Service, unless exempt. To be considered for this grant, you **must** complete a Student Eligibility form.

Texas Educational Opportunity Grant (TEOG): The purpose of the program is to provide grant aid to students who are enrolled in two-year community colleges, public technical college or public state colleges in Texas. Have a Student Aid Index not greater than the amount determined by the Texas Higher Education Coordinating Board. Students must be enrolled in a TSTC certificate or degree-seeking program (Academic Core and non-degree-seeking students are not eligible). Students must be within the first 30 credit hours for consideration and have not already earned an associate or baccalaureate degree. TEOG recipients **must** complete a Student Eligibility Form. TEOG funds are limited and are offered to students on a first-come, first-served basis.

Federal and State Work-Study Program: The Federal College Work-Study Program provides part-time jobs for students

with financial need allowing them to earn money to help pay education expenses. The program encourages community service work and work related to the student's 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. All students considered for employment under the Work-Study Program are ensured equal employment opportunities without regard to race, color, religion, gender, national origin, age, genetic information, disability or veteran status.

At all times, the priority should be given to the student's academics. Therefore, the Work-Study Program is not intended to interfere with the student's education. Student Work-Study employees cannot work during scheduled class time.

Students who are interested in applying for the Work-Study Program must complete the Free Application for Federal Student Aid (FAFSA) and must apply online for specific jobs through the Student Workday page.

Students must be meeting the Financial Aid Standards of Academic Progress and be enrolled at least half-time in their program of study in order to be eligible to participate in the Work-Study Program. Funds awarded are subject to change due to enrollment status or failure to meet program requirements. A background check and drug screening are required for all Work-Study positions. Some positions (depending on position and location of hire) may require a fingerprint check. Applicants that apply for a position may be selected for an interview. If a student is selected for an interview by the supervisor of the department for which the student applied, they will be notified by phone and/or email. A selected student will meet with Human Resources staff to complete 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 employment and that the individual has a good chance of success in the chosen program. 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. Interested applicants should contact the nearest Workforce Center or call 1-800-457-5600 or 1-800-457-5633. Applications for the program should be made as far in advance of registering as possible.

Federal Loans: Various types of federal loans are available, including the Federal Direct Subsidized, Federal Direct Unsubsidized and Federal Direct Parent Loan. To be considered eligible for a loan, students must first complete the Free Application for Federal Student Aid (FAFSA). First-time Federal Direct Loan borrowers 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.

Private Loans: Private loans are made by private organizations such as banks, credit unions and state-based or state-affiliated organizations, and have terms and conditions that are set by the lender. Private student loans are generally more expensive than federal student loans. For a comparison of the different type of loans see Federal loans vs Private loans

To be eligible for a loan, students must have a current Free Application for Federal Student Aid (FAFSA) on file, must be enrolled for six credit hours, not be on financial aid suspension or in default and must meet any other current eligibility requirements. The student will need to meet satisfactory academic progress guidelines.

TSTC candidates for graduation who have borrowed a direct loan are required to complete a loan exit counseling session at https://studentaid.gov. This should be done before graduation.

NOTE: Financial aid offers may be adjusted accordingly if a student has a sponsorship, scholarship and/or a waiver to prevent an overaward, which occurs when a student receives financial aid that exceeds their demonstrated financial need or the total cost of attendance.

14. Applying for Financial Aid

Financial Aid Philosophy & Purpose

The Financial Aid Office has developed a philosophy of offering aid to accomplish several objectives given the resources available.

These objectives are:

- to meet the needs of as many students as possible.
- to offer each student a combination of funds including a certain amount of self-help (loan or employment).
- to spend the total amount of funds available during the academic period.
- to limit the amount borrowed by students to a reasonable level.

Purpose of Financial Aid
The primary purpose of financial aid is to provide assistance to students for expenses related to educational needs. The primary responsibility for meeting college costs lies with students and parents. Federal, state and institutional programs are available for students who meet eligibility requirements.

Financial aid is offered on a first-come, first-served basis or based on program eligibility. Due to limited funds, preference may be given to full-time students who meet priority deadlines. Students who are enrolled at least half-time may request to be considered for additional assistance.

The key to obtaining financial assistance is to apply early. In order to ensure that an aid offer is available and ready, TSTC recommends that the completed file be received in the Enrollment Center according to the following schedule:

Priority Deadlines
Fall Term: May 1
Spring Term: Oct. 1
Summer Term: March 1

All applications are processed on a first-come, first-served basis. Late applications may not have funds available when payment for state and designated tuition is due.

Since financial assistance is not always available by the payment deadline, it is recommended that students make alternative arrangements to pay registration expenses. Contact Student Accounting for information on installment plans or information on emergency tuition loans.

To be eligible for assistance, a student must:

- Complete the Free Application for Federal Student Aid (FAFSA). Be sure to complete the correct application for the year that you will be attending TSTC.
- For the fall 2024, spring 2025 and summer 2025 semesters, complete the2024-2025 FAFSA.
- Verification documents and other forms may need to be submitted after the office reviews the application.
- Complete the admissions requirements, be accepted for enrollment and enroll in an eligible program.
- Meet the TSTC financial aid standards of academic progress.
- Be a United States citizen or an eligible noncitizen. Other rules for foreign students and noncitizens may apply.
- Must have a high school diploma or a GED.
- Not be in default on an educational loan or owe a refund on any federal grants.
- Be registered each semester and pay tuition no later than the 11th class day of the 15-week semester, the ninth class day of the 12-week semester or by the census date for the class/classes registered for. Students registering after the 11th class day of the 15-week semester, the ninth class day of the 12-week semester or after census date 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 byincarceration and/or the type of conviction you have.

Note to prospective students, students and parents of students: All loan information will be submitted to the National Student Loan Data System (NSLDS) and will be accessible by guarantee agencies, lenders and institutions determined to be authorized users of the data system.

Additional requirements for State financial aid

In order to be considered for State financial aid, students 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, go to www.sss.gov. Also, students MUST complete the Statement of Student Eligibility to be considered for State financial aid.

Note: When the student is reported as not attending class prior to census, the student's financial aid eligibility may be affected. Financial aid is based on full-time enrollment and will be reduced when students register for less than 12 credit hours.

Determination of Offers

TSTC attempts to meet the educational financial needs of students. Financial need is determined by subtracting the student's student aid index (SAI), as determined by the Free Application for Federal Student Aid, known as FAFSA, from the total estimated cost of attendance, or COA. Educational Financial Need = COA - SAI. Students are offered aid based on financial need and the availability of funds. Financial aid programs have limited funds. Therefore, the Financial Aid Processing Center may not be able to meet all student's financial aid expectations, but it will try to meet the direct educational needs. Students are responsible for notifying the financial aid office about any additional resources provided to them.

Note: The Federal Pell Grant is initially granted based on full-time enrollment status. Adjustments are made based on a student's actual hours of enrollment. TSTC uses the student's latest census date for all classes enrolled within the term as the official lock date for the term. Adjustments will be made to the Pell Grant if classes are dropped before that date. Other grants, loans and scholarships may be canceled if the student is enrolled for one to five credits.

Student Cost of Attendance Budget (included in COA budget)

Cost of Attendance (COA) at TSTC is based on the number of credit hours that are eligible for financial aid funding. The initial calculation of a student's COA is based on full-time enrollment. The COA is adjusted based on a student's actual enrollment level on the latest census date for courses in which the student is enrolled within the term.

Transportation and housing costs

Dependent students will be assumed to live with parents

Independent students will be assumed to live off campus

Students will have the opportunity to change their housing status if the assumption is incorrect

- Adjustments to the cost of attendance may be considered on a case-by-case basis for child care expenses, excessive transportation costs, purchase of a computer, etc.
- TSTC employees and their eligible dependents are charged the adjusted tuition rate approved by the TSTC Board of Regents, if approved by Human Resources.

How to Apply

In order to apply for financial aid, you need to complete the 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 in completing the FAFSA, contact the Federal Student Aid Information Center at 1-800-433-3243 or TTY: 1-800-730-8913.

- Complete the admissions process, submit required transcripts and officially declare a major at the TSTC Enrollment Center. Undeclared majors are not eligible for financial aid.
- Pre-register according to college registration dates and guidelines. Please keep in mind that financial aid will only cover courses that are within your degree plan.

Next Steps:

Once your financial aid eligibility has been determined, you will receive an offer letter by email. After you register your financial aid will be credited to your student account before the start of classes. The amount of financial aid grants that you are offered may not be enough to cover all of your charges. Be sure to review your billing statement. Additional steps will be required if you have never received a student loan at TSTC and wish to receive one now. For example, loans must be accepted and need promissory notes and entrance counseling. Contact the Enrollment Center for more information and

assistance.

You may also find the Estimated Cost of Attendance on the website Payment Information.

Denial of Aid and/or Repayment
Financial assistance may be reduced, denied or canceled, and students may owe repayment if they:

- Purposely give false or misleading information (they may be fined $20,000, sent to prison or both);
- Are on academic/financial aid suspension;
- Owe money to TSTC or the Department of Education;
- Fail to report any changes in circumstances that may affect Federal and/or State financial aid, such as 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 TSTC or drop below half-time at any time of the semester or fail to meet eligibility requirements;
- Fail to begin attendance in one or all classes between the first day and census day;
- Are offered Federal Pell Grant for more than one school for the same period of time;
- Stop attending classes without officially dropping or withdrawing;
- Fail to notify TSTC about aid offered at other institutions;
- Default on a student loan; or
- Owe overpayment of grants.

Change in Circumstances

Financial aid offers are based on information reported on the financial aid application and the student's enrollment status. Any financial situation that has recently changed because of, but not limited to, loss of job or benefits, death or other hardship may qualify a student for a Special Circumstances Evaluation.

You can request a Special Circumstance review through your student Workday Home page using the Menu option - Finances; then Financial Aid; and FA Special Circumstances. After review, any additional documentation will be requested as needed.

Reapplying/Renewal Applications

Financial aid is not automatically renewable. The FAFSA must be submitted each academic year. Applications for the following academic year are available each prior year on Oct. 1. The priority application deadline for the fall semester is May 1. An academic year includes three semesters: fall, spring and summer.

Verification of Information

All applications and forms must be completed carefully and accurately. The Department of Education or TSTC may select your application for verification. If you need to submit any documents, you will receive a notification that has the form(s) along with the link so that you can upload them. Students are responsible for submitting accurate information in order to prevent a delay in the processing of the application. Failure to complete the verification process will prevent financial aid offers.

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

15. Standards of Academic Progress (SAP)

Maintaining Eligibility for Financial Aid

Texas State Technical College (TSTC) Standards of Academic Progress (SAP) are adopted to determine continuing eligibility for students who are receiving or applying for financial aid. Students who receive financial aid must have a declared major and be enrolled in an eligible degree or certificate program. TSTC evaluates all parts of the Standards of Academic Progress at the end of each term of enrollment. This review will include all periods of the student's enrollment, even those for which the student did not receive financial aid. Students are expected to be continually aware of their grades. A student who fails to meet the standard of progress (SAP) will be notified by email at the email address on the student record; however, failure to receive notification will not change the SAP status. https://www.calculator.net/gpa-calculator.html.

Students are required to maintain satisfactory academic progress (SAP). These standards will be used to determine 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 grade point average (GPA) and/or a higher completion rate.

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.

Minimum Cumulative Completion Rate

You must complete at least 67% (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 are considered attempted courses, and will be calculated in the 67% completion requirement. Any transfer hours that are accepted from other colleges and applied toward the completion of your program are counted in the cumulative completion rate.

Maximum Timeframe to Complete a Program

You must complete your program in 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 the Financial Aid Office determines that you cannot complete your program within the 150% limit, you will no longer be able to receive financial aid. Several variables are considered when calculating the 150% limit. These variables include but are not limited to:

- Credits attempted for all periods of enrollment are evaluated even if you were not receiving aid to pay for them. Attempted hours are the hours in which you are enrolled as of the census date of a term. If you withdraw from a course(s) after the census date for that course it is still counted as an attempted course and is included in the SAP calculation. Developmental courses are not counted in this 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. Transcripts from all colleges previously attended must be submitted before any financial aid is released.
- If you repeat a course, both attempts will be counted in the maximum credit hours and progression calculation, even if you did not receive aid for both attempts.
- A student may receive 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, a student 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

Students receiving financial aid must declare a major in an eligible certificate or degree program. Students should only register for courses approved for their designated degree plan/catalog year. Change of Major request forms may be submitted to the enrollment coach or in Workday where the student will have the ability to submit online via their portal. The Records Processing Center will change the student major to ensure that the student’s new program is tracked for SAP. Transfer credits that are applicable to the student's degree plan will be counted in both the attempted and completed credits.

Additional Certificates and Degrees

Changing programs will not change a student’s current status. The student’s maximum time frame will be re-evaluated and only those credits that are included in the new program will be considered.

Treatment of Developmental Courses

Enrollment in developmental courses is indicated by testing or as recommended by an enrollment coach/advisor. You may receive financial aid for a maximum of 27 attempted hours. These courses will be included in determining the cumulative GPA and cumulative completion rate, but will not be counted in determining the 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 courses.

Important Reminders

- A student may receive 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, a student 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 (enrolled as undeclared, undecided or non-degree seeking).

Failure to Meet the Financial Aid Standards of Academic Progress

Warning

The first time that a student fails to meet the minimum 2.0 cumulative GPA and/or the cumulative completion rate of 67%, the student will be placed on financial aid warning. The only exception is for exceeding maximum timeframe hours, which results in immediate suspension. Students on ‘warning’ status may receive financial aid without completing an appeal.

Financial Aid Suspension (Failed)

Students can be placed on financial aid suspension for several reasons:

- Failing to meet the 2.0 cumulative GPA and/or the 67% completion rate during the warning period.
- Reaching the maximum time frame for the program of study which is calculated by multiplying the number of hours in the program by 1.5.
- A student who filed an appeal and was placed on an academic plan or on probation and who 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 manners:

- 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%.
    - It may require multiple terms for students with an extremely low GPA and/or completion rate to regain financial aid eligibility.
- File a Satisfactory Academic Progress Appeal demonstrating mitigating circumstances and be approved.
- The maximum time frame limit is when you have attempted 150% of the credits needed to complete your program at TSTC. This limit could also be reached if you're returning for an additional associate degree/certificate. At this point, you are no longer eligible for financial aid. There is no warning prior to a student reaching this status.
- 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.

Appeal Process

Students who are placed on failed status due to financial aid suspension or maximum timeframe may file an appeal based on mitigating circumstances. All appeals must be completed online and may not be submitted unless they include supporting documentation. Once you are notified of not being eligible due to not making satisfactory academic progress, you have five working days to submit an appeal or up to the subsequent semester census date, whichever comes first. The student is responsible for any payments and meeting payment deadlines during the appeal process. The student should not miss payment deadlines while waiting for a response. Failure to pay for tuition and fees may result in de-registration. The student is responsible for balances due if the student withdraws before or after an appeal is denied.

Appeals will only be granted for conditions causing extenuating hardship to the student, such as the death of a family member, illness or injury of the student, or other mitigating circumstances.

The appeal must require supporting documentation regarding your mitigating circumstance, such as medical statements or death certificates, or other supporting documentation. Appeals for mitigating circumstances cannot be submitted without

documentation. Submitting an appeal does not guarantee approval of the appeal. Sitting out a semester or more does not change the SAP calculation result. Appeals will be reviewed by enrollment coaches and may be appealed to the team lead 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 academic success.

Appeal Decisions

Maximum Time Frame Appeal Approved

The student will be placed on an academic plan and their progress will be reviewed at the end of each term. Failure to meet the 2.0 term and or 67% term completion rate will result in suspension from aid. The conditions of the appeal may require a higher term GPA and/or completion rate at the discretion of the Enrollment Coach.

Probation

A student will be placed on probation if we determine that he or she should be able to reach both the 2.0 cumulative GPA and 67% cumulative completion rate requirements at the end of the next term of enrollment. If the student fails to meet these standards, he or she will be placed on suspension.

Academic Plan

A student may be placed on an academic plan under which they are able to achieve a 2.0 GPA by the end of their second year of enrollment so that they will be eligible for graduation. While in this status, a student must be making progress according to an academic plan which dictates that a student must achieve a term GPA of 2.0 or higher and a term completion rate of at least

67% in order to continue to retain aid eligibility. The conditions of the appeal may require a higher term GPA and/or completion rate at the discretion of the enrollment coach. The first term that a student is under an academic plan will be a probationary term. If the student complies with the terms of the academic plan, he or she will be making academic progress and can continue to receive aid as long as they meet the conditions of the plan. Failure to achieve these conditions will result in suspension.

Appeal Denied

The student will not be eligible to receive financial aid until he or she meets 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 in order for a student to regain aid eligibility.

16. Managing Student Debt

TSTC, along with other colleges and universities throughout the country, is concerned about student debt and financial literacy. There are many reports and statistics that indicate having high debt affects a student’s enrollment, retention and graduation. Students can meet with an Advocacy Resource Center Coach for information on financial planning and assistance with budgeting.

Students can learn about financial planning, saving and investing atwww.financialliteracy101.org/financial-literacy.

Students enrolled in the TSTC 1101 College Success course are also provided with financial literacy information. This course introduces students to college resources and helps students manage money and debt effectively. All students, except dual enrollment students, who enter TSTC with fewer than 24 semester credit hours are required to take this course during their first semester.

17. Veteran Benefits

TSTC is approved for training service members, veterans and their eligible dependents under the provisions of various laws commonly called the GI Bill®. The student is responsible for tuition and fees not covered by GI Bill® or the Hazlewood Tuition Exemption. A spouse or child of a veteran may receive benefits under certain conditions. The DD form 214 and all

official college, university and military transcripts are required. Veterans who are eligible for assistance under any of the Department of Veterans Affairs programs should contact Veteran Services.

Service members, Veterans and dependents are encouraged to review all benefits at benefits.va.gov/gibill before applying for educational benefits. Texas Veterans and their dependents may be eligible for benefits under the Texas Hazlewood Act. The Texas Hazlewood Act encompasses many different tuition exemptions and/or waivers for eligible Veterans and their dependents. Please visit www.tvc.texas.gov to view all eligibility requirements. Texas Veterans interested in using the Hazlewood Tuition Exemption must submit the proper application and all supporting documentations to the Veterans Services Office.

NOTE: All active-duty, reservist or National Guard Service members are encouraged to speak with their educational service officer (ESO) or counselor within their military service prior to enrolling at TSTC.

No Show Status

Veterans/Dependents reported as a No Show will have their enrollment certification interrupted and may impact the student's VA education benefits. Overpayment due to a No Show Status is the Veteran's responsibility, and money may be owed to TSTC and/or VA Education Department.

Enrollment Certification

Only classes that earn credit toward the Veteran's VA approved signed degree plan will be certified to VA. Veterans will not be certified for repeat courses that are considered completed. It is the Veteran's responsibility to meet with their 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 valuation that is available in Workday.

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 Vocational Rehabilitation & Employment (Ch. 31) benefits, while payment to the institution is pending from VA. Texas State Technical College will not:

- Prevent the student's enrollment.
- Assess a late penalty fee to the student.
- Require the student to secure alternative or additional funding.
- Deny the student access to any resources (access to classes, libraries or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution.

However, to qualify for this provision, such students may be required to:

- Produce the VA Certificate of Eligibility (COE) by the first day of class.
- Provide a written request to be certified.
- Provide additional information needed to properly certify the enrollment as described in other institutional policies.

18. Textbooks and Supplies

The Campus Stores

TSTC Campus Stores offer a wide selection of books, tools, and supplies required for classes and labs. Visit a Campus Store to buy books. If you are an online student, please feel free to visit the Waco or Harlingen stores online, and items will be shipped to you.

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.

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.

Faculty Program Advisor

Program advisement will continue throughout the student's enrollment. All students are assigned a faculty program advisor based on their major, as well as an enrollment coach. Students are responsible for scheduling an appointment with a faculty program advisor prior to registering for the subsequent semester. Faculty program advisors or enrollment coaches will inform students of any restrictions that may prevent them from registering. It is the student's responsibility to clear all restrictions.

Faculty program advisors can assist with:

- Program admission requirements, if applicable.
- Degree and certificate completion, and program changes.
- Licenses or certification for job placement.
- TSI compliance, as needed.
- Program completion time, course transfer and substitutions.
- Time commitment to lecture and lab.
- Opportunities for career assessment and advisement.
- First Year Seminar (TSTC 1101/TSTC 1102) requirement.
- Maintaining academic and financial aid standards of progress.
- Departmental participation policy.
- Dropping/adding class(es) or withdrawing from the College.
- Job placement, gainful employment information and job market expectations.
- Applying for graduation.

Students will meet with the program advisor each semester to make sure that the student is meeting all of the requirements to successfully graduate from the program.

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.

Performance-Based Education Mentors

Performance-Based Education (PBE) mentors serve as an additional resource for students in Performance-Based Education

programs. PBE mentors 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. PBE mentors 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

Testing Centers offer testing services to help students persist in their education. Additionally, we encourage our communities to use our services to support their educational and career goals. Testing Centers adhere to the National College Testing Association (NCTA) Professional Standards and Guidelines to maintain the integrity of our institution.

Hours of Operation

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

Please contact a Testing Center near you for test dates and times. Hours are subject to change and appointments are required. Walk-ins may be accommodated depending on seat availability and office hours.

Maintaining Academic Integrity

Continuous monitoring through video surveillance, walk-throughs and observation windows during testing acts as a deterrent against acts of misconduct or academic dishonesty. This proactive approach ensures that students are aware of the consequences of cheating, promoting a fair and honest testing environment. For information on the Testing Center policies, visit the Testing Center webpage.

Testing Accommodations

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

Academic Testing

Accommodated Exams: Accommodated exams are for enrolled students needing to take TSTC course exams at the Testing Center based on their testing accommodations. Testing accommodations are in effect only after the student has completed the accommodations process through the Access and Learning Accommodations (ALA) Office.

Proctored Exams: Some courses may require students to take proctored exams at the Testing Center. Proctored exams at the Testing Center ensure academic integrity by implementing security measures to prevent cheating.

Placement Testing

Texas Success Initiative (TSI) Assessment 2.0: The TSI Assessment 2.0 is designed to help higher education institutions determine if students are ready for college-level coursework in the general areas of reading, writing and mathematics. Enrollment Coaches play a crucial role in guiding students on whether they need to take the TSI Assessment 2.0. Before students take the assessment, they must participate in a mandatory Pre-Assessment Activity (PAA) unless already completed. The PAA aims to prepare students for the assessment by providing practice test questions.

College Level Examination Program (CLEP): The CLEP exam allows students to move ahead in their coursework based on what they already know. The exam covers diverse subjects like business, science, history, languages and literature. Veteran students take CLEP exams for free through DANTES. TSTC awards course credit for the following CLEP subject exams, providing the minimum score has been obtained on the specific subject. TSTC does not award credit for the CLEP General Exams. CLEP scores are valid for 10 years from the test date.

Additional Testing

The Testing Centers provide a variety of exams, including allied health and nursing admission exams like ATI TEAS and HESI. The centers also offer professional certification and licensing exams such as aviation, computer networking, surgical instrument specialist and phlebotomy technician. It's important to note that not all tests are available at every Testing

Center, so students should confirm the availability of their specific exam beforehand to ensure a smooth testing experience. For a complete list of exams, please visit the Testing Center webpage.

03. New Student Orientation

After the registration process, students receive information on the New Student Orientation (NSO) schedule for in-person sections or an online option. New Student Orientation is a great way to begin your TSTC journey. You will be introduced to campus resources and learn how to get involved with campus activities. For NSO details click here.

04. First Year Seminar Courses (TSTC 1101 and TSTC 1102)

All current TSTC students and all transfer students with fewer than 24 Semester Credit Hours (SCH) are required to take a first year seminar course, TSTC 1101 College Success or TSTC 1102 Professional Skills & Success. This one-credit-hour course will present students with the essential knowledge to accomplish their goals at TSTC. This course is the most important class a student will take at the college and provides a strong foundation for a student's academic and professional career by focusing on student development, soft skills, the utilization of campus resources and lifelong learning skills for academic and workplace success. Each program degree plan identifies which first year seminar course is required.

Only one successfully completed TSTC 1101 or TSTC 1102 is required. Dual credit students are exempt from taking this course.

Transfer students who have successfully completed more than 24 credit hours may be exempted from taking this required course. All students are responsible for providing official transcripts to the college to receive the exemption. Transcripts should be received no later than one week prior to the start of the semester. Students are responsible for updating their schedules after providing transcripts that show 24 or more hours of successfully completed credit or after an exemption has been approved.

The following programs require TSTC 1102:

- Architectural Design and Engineering Graphics Technology
- Architectural/Civil Drafting Technology
- Auto Collision and Management Technology
- Automation Control Technology
- Automotive Technology
- Avionics Technology
- Biomedical Equipment Technology
- Building Construction Technology
- Business Management Technology
- Chemical Dependency Counseling
- Computer Networking and Systems Administration
- Computer Programming Technology
- Culinary Arts
- Cybersecurity
- Diesel Equipment Technology
- Digital Media Design
- Drafting and Design Technology
- Electrical Power and Controls
- Electromechanical Technology
- Engineering Graphics and Design Technology
- Health Information Technology
- HVAC Technology
- Industrial Systems
- Instrumentation Technology
- Mechatronics Technology
- Medical Imaging Systems Technology
- Occupational Safety and Environmental Compliance
- Plumbing and Pipefitting Technology
- Precision Machining Technology
- Process Operations
- Robotics
- Solar Energy Technology
- Web Design and Development
- Wind Energy Technology
- Welding Technology

05. Nontraditional Services

Nontraditional occupations for females and males are defined as “a field in which either gender comprises less than 25 percent of the current enrollment.” Each TSTC campus provides services to assist qualifying students that are enrolled full-time in a declared nontraditional program of study leading to an associate degree, certificate or occupational skills award (in limited number of programs).

Services are funded through the Carl D. Perkins Vocational & Applied Technology Act and are contingent upon the availability of funds during the pertinent semester and the adherence to program policies.

How to Connect with ARC

For more information on services provided to nontraditional students, please consult the Advocacy & Resource Center (ARC) by emailing cultureofcaring@tstc.edu or visiting our Google site. Here you can find ARC staff contact information, campus ARC locations and the Request for Support Form. Students at all TSTC locations and TSTC Connect students can connect with an ARC staff member by contacting us.

06. Student Identification Cards

All new college-credit students are required to obtain TSTC identification (ID) cards when they register. ID cards are optional for dual credit students and students in Workforce Training & Continuing Education, depending on the course or program.

Students should carry these cards at all times. They must be presented for various purposes, such as cashing checks, paying fees, accessing library resources, to gain entrance into labs or as requested by authorized officials. Misuse of ID cards may result in disciplinary action.

08. Scholastic Information

01. Academic Integrity

TSTC expects all students to engage in scholastic pursuits in complete honesty and integrity. Any student found guilty of academic dishonesty is subject to disciplinary action. Academic dishonesty includes, but is not limited to, cheating on academic work, plagiarism and collusion.

Cheating: Activity that 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.
- Collaborating, without authority, or seeking aid from another student during an examination or assignment, or in preparing academic work.
- Using, buying, selling, stealing, transporting or soliciting, in whole or in part, the contents of an unadministered test, test key, homework solution or computer program.
- Substituting for another student or permitting another student to substitute for oneself 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 property of the college, or of another individual student, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct.
- 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 when the instructor has designated that the examination is not to be removed from the examination room or not to be returned to the student.
- 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 means claiming another’s work as one’s own without acknowledging its origin and doing so for credit.

Collusion means unauthorized collaboration with another person in preparing a written work offered for credit.

For more information and procedures regarding a violation, see theCode of Student Conduct, Section J, Violations of Academic Integrity.

02. Credentials

TSTC offers programs of study leading to stackable credentials. Students may earn an Occupational Skills Award (OSA), Level 1 Certificates, Level 2 Certificates, Core Curriculum Completer institutional certificate (CCC), Associate of Applied Science degrees (AAS), Associate of Science (AS) degrees, and/or Advanced Technical Certificates (ATC). High school students who attend participating partnering high schools, may participate and complete dual credit pathways while enrolled in high school. All programs are approved by the Texas Higher Education Coordinating Board.

Associate of Science (AS) Degree programs are designed specifically for students who reside in the Rio Grande Valley and are planning to pursue a bachelor's degree in the areas of biology, computer science, engineering, mathematics and/or physics. Programs may include the institution's approved academic core curriculum and prerequisites for a seamless transition into a baccalaureate program. Associate degree programs must incorporate TSTC's approved core curriculum unless an exemption exists. Graduates of these programs will receive an Associate of Science degree. TSTC Harlingen participates in the Texas Common Course Numbering System (TCCNS) to facilitate transfer work for freshman and sophomore level general academic coursework. [AS curriculum contains 60 Semester Credit Hours.]

Associate of Applied Science (AAS) Degree programs are designed to train technicians who work with professionals. The AAS is awarded for technical programs of study. These programs prepare technicians who are in demand in today's industry to work on a level between engineers and skilled craftsmen. Because technicians must be able to understand the profession and translate ideas into actual processes, the technical programs combine theory and laboratory classes with laboratory and shop experience. All graduates of associate degree programs must show they 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. [AAS curriculum contains 60 semester credit hours, other than Dental Hygiene AAS 68 semester credit hours.]



Advanced Technical Certificate (ATC) programs are comprised of 16-45 semester credit hours. A student must have an associate degree, baccalaureate degree or junior status in a baccalaureate degree program.

Certificate of Completion awards are offered for skill development programs. These programs are designed to produce the skilled workers needed by modern industry. Skill programs emphasize laboratory and shop experience rather than theory. Certificate programs teach students specific skills for entry-level careers. All graduates of certificate programs show that they are competent in oral communication and the use of computers by satisfactorily completing at least one course in which oral communications and basic computer skills are covered. Graduates of these programs receive certificates of completion.

Certificate 3 Enhanced Skills Certificate is an optional certificate associated with an AAS degree program that is intended to provide advanced training skills, identified by business and industry, which are not part of the AAS degree. It is comprised of a minimum of 6 semester credit hours and a maximum of 12 semester credit hours.

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

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

Core Curriculum Completer Certificate is awarded upon satisfactory completion of all elements and courses in the TSTC approved 42 semester credit hours Core Curriculum.

Occupational Skills Award (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. These short-term, skills-focused courses provide students with the basic technical skills needed to start an entry-level career. OSA awards consist of 9-14 semester credit hours for credit courses and 144-359 contact hours for workforce continuing education courses.

03. Degree and Certificate Plans

A degree or certificate plan includes a set of courses that are required to earn a specific degree or certificate. Electives are approved by the student's faculty advisor and indicated in the plan. Course credit may be earned at TSTC, transferred from another college or university, or awarded through examination.

Courses may be substituted if they are approved by the department designee or subject matter expert. No situation guarantees that a course substitution will be approved. Each request is decided on its own merit.

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.

A student is certified for graduation only when credit has been earned for all courses and all graduation requirements have been met. Any appropriate course substitution and/or transfer credit authorizations must be on file. The minimum grade point average (GPA) must also be met. Although advisors are available to assist, students are responsible for keeping track of their progress toward meeting program requirements. Contact the Enrollment Coach for assistance.

Additional Degrees and Certificates

Credit hours may be applied toward more than one degree and/or certificate, as long as those hours meet requirements of those credentials.

04. Change of Major

A student may change majors only between terms or prior to the 11th class day of a 15-week semester, the fifth class day of a 12-week semester, the fourth class day of a 10-week semester, or the fourth class day of a 6-week session. Students who wish to change programs should meet with an Enrollment Coach or a program advisor. Students must meet the entry requirements if specified. Students receiving financial aid should meet with the Enrollment Center before changing their major.

To change majors, students must follow these procedures:

1. Complete the change of major form, including obtaining all required signatures and return the completed form to the Enrollment Coach for processing or
2. Submit an electronic request via the college's Student Information System to Change Program of Study.
3. Students may be required to meet additional admission criteria for the new program/major.

05. Institutional Awards

TSTC offers technical training in defined skill sets which can be grouped in various combinations to meet specific job requirements for business or industry. These pathways are designed to allow students and/or incumbent workers to enter, exit and re-enter TSTC training while they continue to work or pursue further training.

Credits earned in these pathways may be applied to a college credit for an Occupations Skills Award, certificate of completion and/or Associate of Applied Science degree. TSTC also offers Associate of Science degrees at the Harlingen location only.

06. Course Load

Students in good standing may register for course loads equivalent to those specified in their instructional programs.

Students may register for less than normal loads but must register for a minimum of 12 credits to be considered full-time. Students who are making unsatisfactory progress or carrying excessive outside work may be required by the Director of Alignment or faculty advisors to register for less than normal loads.

Students may register for up to 18 credits with the approval of the faculty advisor. Enrollment for more than 18 credits requires approval of the appropriate department designee.

07. Classification

Students are classified as freshmen if they have earned less than 30 hours of college credit. They are classified as sophomores if they have earned 30 to 72 hours of college credit.

08. Grading Standards

TSTC measures student achievement of skills, knowledge and competencies through a system of grading standards. Four grades (A, B, C, D) indicate that credit was received and a grade was awarded. One mark (CR) indicates that credit was received but no grade was awarded. One grade (F) and various other marks indicate that no credit was received and no grade points were awarded.

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

The following system of final grades and marks applies to courses offered in a traditional format. Grades or marks are used by TSTC to report student performance for each course attempted and/or credited toward graduation.

Traditional Grading Standards

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

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
P	Pass/Meets Required Performance Level (For use in a developmental course or a specialized course and may be used, at the discretion of the College, for up to six credit hours in a program, except during critical extenuating circumstances, in which case more than six hours of Pass/Fail may be applied and additional course offerings may be available for Pass/Fail grading. The grade of "P" should only be applied to developmental or Technical WECM courses.	NC

Grade	Interpretation	Grade Points
IP	In Progress (For use when a student has not had sufficient time to complete the course due to extended illness or other circumstances beyond the student's control. A grade of IP will be changed to a grade of F if the student does not complete the course requirements by a date specified by the faculty member or within one year, whichever is less.)	NC
IM	Incomplete-Military Leave (For use by students who are called to active military service near the end of a term. A grade of IM will be changed to a grade of W if the student does not complete the course requirements within two years of the date the IM grade was awarded.)	NC
W	Withdrawal	NC
CR	Credit (Represents credit for courses that are accepted toward 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
AUD	Audit of Course	NC
S	Satisfactory (For use in Continuing Education courses and programs.)	NC
UN	Unsatisfactory (For use in Continuing Education courses and programs.)	NC
X	No Grade Assigned	NC
NP	No Pass (Represents a grade of "Unsatisfactory" and maybe used at the discretion of the College 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 attempted, but have no effect on student's GPA.)	NC
FA	Failing (prior to September 1988)	0
I	Incomplete (prior to September 1988)	NC
U	Unsatisfactory (prior to September 1988)	0
WF	Withdrew Failing (prior to September 1988)	0
WP	Withdrew Passing (prior to September 1988)	NC

NC: Not Calculated

Performance-Based Education (PBE) Grading Standards

Technical Courses:

Grade	Interpretation	Grade Points
A	Excellent/Superior Performance Level	4
B	Above Required Performance Level	3
F	Failure to Meet Performance Requirements	0
IM	Incomplete-Military Leave (For use by students who are called to active military service near the end of a term. A grade of IM will be changed to a grade of W if the student does not complete the course requirements within two years of the date the IM grade was awarded.)	NC
W	Withdrawal	NC
CR	Credit (Represents credit for courses that are accepted toward 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
AUD	Audit of Course	NC
S	Satisfactory (For use in Continuing Education courses and programs.)	NC
UN	Unsatisfactory (For use in Continuing Education courses and programs.)	NC
X	No Grade Assigned	NC
NE	The grade of NE represents a grade of "No Credit Earned." The grade of "NE" is non-punitive and is not calculated in grade-point averages. Grade of "NE" can be assigned to a student who enrolls in performance-based courses that is over the 12.00 SCH (full-time status) in one term and who has not had sufficient time to complete the course due to the registration date.	NC
NA	The grade of “NA” represents a grade of “Not Applicable.” 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 a student has not yet reached the midpoint of the course.	NC

NC: Not Calculated

Academic, Developmental Education and First Year Seminar Courses:

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
IM	Incomplete-Military Leave (For use by students who are called to active military service near the end of a term. A grade of IM will be changed to a grade of W if the student does not complete the course requirements within two years of the date the IM grade was awarded.)	NC
W	Withdrawal	NC
CR	Credit (Represents credit for courses that are accepted toward 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
AUD	Audit of Course	NC
S	Satisfactory (For use in Continuing Education courses and programs.)	NC
UN	Unsatisfactory (For use in Continuing Education courses and programs.)	NC
X	No Grade Assigned	NC

NC: Not Calculated

Note: Students who have transcribed courses from a traditional program and move into a PBE program will receive credit for their previously transcribed courses. Grades received in the original course(s) will transfer into the PBE program as determined by the program administrator.

Notification of Grades

Students are expected to monitor their academic progress. Student grades are available upon course completion, and students can view grades by accessing their Student Information System portal. Students should review the grade reports for accuracy. All requests for review or correction must be submitted to the enrollment coach within 12 months of the close of the semester in which the course was taken.

Grade Changes

Student grades are among the most important records kept by the College. Policies and procedures ensure the privacy and integrity of student grade records and, at the same time, provide students a process to appeal final course grade decisions.

The following policies and procedures must be followed to request a grade change.

- A grade change must be requested within 12 months of the issuance of a grade.
- A grade may be changed due to an error, a student completing coursework previously graded “IP” (In Progress), or a fact-supported finding by appropriate members of the administration or appeal committee operating in accordance with established college procedures.
- A grade cannot be changed 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, noting the reason for the grade change and signed by the student’s instructor, appropriate department designee and the Office of the Registrar.
- Upon receipt of the completed and signed grade change form or request via Workday, the Office of the Registrar makes the official change to a student’s transcript record.
- If submitted via paper form, a copy of the change of grade form is placed in the student’s permanent file for audit purposes.

09. Grade Point Averages

Grade points earned for each course are determined by multiplying the number of points for each grade by the number of credit hours that the course carries. For example, a student who takes a three-hour course and earns an “A” accumulates 12 grade points for that course (3 hours x 4 points for an A = 12 points). A student’s grade-point average is computed 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 the grade-point average (GPA).

Term Grade-Point Average

The Term GPA is computed 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

The Cumulative GPA is computed for all TSTC college-level courses using all grades and grade points earned since enrolling at TSTC. Developmental education courses are excluded from the Cumulative GPA calculation. The Cumulative GPA is used to qualify students for graduation and for graduation honors.

Standards of Progress Grade-Point Average

A Term and Cumulative Standards of Progress GPA is computed using all TSTC college-level and developmental education courses. The Standards of Progress GPAs are used for determining scholastic standing, term scholastic honors and financial aid eligibility. See “Financial Aid Standards of Academic Progress” in the Financial Aid section for more information.

10. Scholastic Standing

TSTC’s scholastic standards are based on a philosophy of advancing student progress toward successful course and program completion. The criteria for scholastic standing are designed to monitor student progress so that faculty and staff can intervene and assist students who have difficulty meeting minimum requirements. Scholastic standing is computed at the end of each enrollment period and is based on the Standards of Progress (SOP) term and cumulative GPAs.

Good Standing

A student who maintains minimum 2.00 standards of progress cumulative and term grade point averages will be in good academic standing.

Scholastic Probation

A student whose standards of progress cumulative or term grade point average is below 2.00 at the end of an enrollment period is placed on scholastic probation. A student is removed from scholastic probation when the standards of progress cumulative and term grade point averages are 2.00 or higher.

Scholastic probation is a serious warning that the quality of the student's work must improve in order for the student to continue enrollment in the College. Students on scholastic probation are encouraged to meet with a program advisor or enrollment coach prior to registration to discuss options to improve grade point average.

Scholastic Suspension

A student on scholastic probation whose Standards of Progress term GPA and cumulative GPA are still below a 2.00 will be suspended for a time period designated by the College (a minimum of one semester). A suspended student may obtain an application for a waiver of a suspension from the Helping a TSTC Student Succeed (HATSS) Mentoring Program representative. A student who is granted a waiver or re-enters the College after having been suspended shall be placed on scholastic probation status and shall be subject to the minimum requirements governing scholastic probation.

11. Scholastic Honors

Term Scholastic Honors

Full-time students as of the end of term who earn a standards of progress term grade point average of 3.50-3.99 shall be recognized as part of the "Vice Chancellor's Honor Roll" with the notation of "Scholastic Excellence" on the official transcript.

Full-time students as of the end of term who earn a standards of progress term grade point average of 4.00 shall be recognized with the notation of Chancellor's Honor Roll on the official transcript.

In addition, students may be recognized on the TSTC website, see Honor Recognition Awards.

Graduation Scholastic Honors

Graduation honors will be awarded to students who graduate with an Associate Degree, Applied Associate Degree or Certificate of Completion (credit based) program based on the following cumulative grade point averages:
Board of Regents Honors: 4.00
With Honors: 3.50–3.99

Graduation honors will be listed on the official transcript.

12. Transcript of Credit

The transcript of credit is an official statement of the student's complete academic record accumulated at TSTC. Upon a written or online request to any TSTC campus, the Enrollment Center will release official transcripts to the student or to a third-party that is authorized by the student to receive the transcript. Normally, the minimum time for processing such requests is 24 hours. However, transcripts requested at the end of a term or during holidays may take longer for processing.

Students who request transcripts prior to the end of a term, with current courses and grades to be included in the transcripts, must clearly note the current work as part of the request. Official transcripts may be withheld due to any financial debt, pending disciplinary process or other holds that prevent the release of transcripts.

13. Repeat Courses

It is the policy of Texas State Technical College to allow students to repeat a course only when the initial grade earned was below a grade of "A."

When a student repeats a course in which the grade earned was below an "A," the first grade earned will not be calculated into the cumulative grade point average. The last grade issued (regardless of whether higher or lower than the first grade) will be calculated into the cumulative grade point average. See Statewide Operating Standard (SOS) ES 4.15 - Repeat Courses and GPA Calculation.

09. Graduation and Commencement

01. Graduation Requirements

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.

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.

Exception to this requirement may be approved in extenuating circumstances by the Associate Vice Chancellor for Instructional Alignment & Innovation.

02. Graduation Procedures

The registrar or their designee will certify that the student has met graduation criteria and requirements.

Students are notified of their eligibility for graduation when they achieve the following requirements for the applicable degree or certificate:



1. All required coursework is satisfactorily completed.
2. At least 25% of the total required credit hours for the program earned at TSTC.
3. The student’s cumulative grade point average is 2.0 or higher.
4. Grading requirements:
    a. Course taught in traditional format: The student’s grades in all major courses are C or better. Courses with a grade of "Pass" may be counted in satisfaction of degree requirements. This minimum grade requirement may vary for some TSTC health-related programs.
    b. Course taught in PBE format: The student's grades in all major courses are B or better.
    Note: Students who have transcripted courses from a traditional program and move into a PBE course will receive credit for their previous transcripted course, if applicable, as determined by the program administrator.
5. All transfer credits accepted by TSTC and applied to the degree or certificate have been credited according to approved procedures for evaluation and award of credit.
    Note: All transfer credits are evaluated by the Office of the Registrar using the Texas Common Course Numbering System (TCCNS) Transfer Guide for courses offered at state institutions. Courses that are not listed in the TCNNS, that are from an out-of-state institution or that are from a foreign institution shall be forwarded to the appropriate department/subject-matter experts for further review and approval. Students shall be responsible for providing the necessary documentation about the transfer course(s). 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 Creditfor additional information.
6. The student has no pending disciplinary issues as defined in the TSTC Catalog and Student Handbook.

Note: Settlement of all financial obligations to TSTC must be made prior to graduation. If any business is pending with TSTC by commencement, TSTC withholds the official TSTC transcript until clearance approval.

03. Graduation Honors

Students receiving an Associate Degree, Applied Associate Degree or Certificate of Completion (credit based) who earn Cumulative GPAs of 4.0 receive TSTC Board of Regents Honors.

Students receiving an Associate Degree, Applied Associate Degree or Certificate of Completion (credit based) who earn Cumulative GPAs of 3.50 to 3.99 receive Honors.



04. Commencement Ceremonies

Participation is voluntary; however, candidates for graduation are encouraged to celebrate their accomplishments by participating in a commencement ceremony. Students not planning to attend the commencement ceremony may pick up their diplomas, covers, cords and/or Board of Regent medallions at the Enrollment Center once certification of degrees has been completed. There is also an option to have their graduation items mailed to them at the address in the College's administrative database after certification.

Candidates for graduation participating in the commencement ceremony must wear only TSTC designated regalia (cap, gown, tassel) which may be purchased at the TSTC Campus Store.

Students requiring accommodations for commencement will need to make arrangements with Access and Learning Accommodations prior to the ceremony.

05. Diploma Reprint Request

To request a reprint of a diploma, students must complete the diploma reorder form and submit for processing at registrars@tstc.edu. The diploma reorder form can be obtained through the Office of the Registrar.

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 Chief Academic Officer or designee.
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 local 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.

Allied Health

Aviation

Computer & Information Technology

Construction & Maintenance

Engineering & Manufacturing

Environmental & Safety

Hospitality

Online Programs

Transportation

02. Degree & Certificate Options

Associate of Science

The Associate of Science degree is specifically designed for the benefit of students transferring to a four-year university. TSTC offers this degree in the areas of biology, computer science, engineering, math and physics.

Associate of Applied Science

Technical programs of study offered at TSTC award the Associate of Applied Science degree. These programs prepare technicians who are in demand in today’s industry to work on a level between engineers and skilled craftsmen.

Certificates of Completion

Skill development programs offered at TSTC award certificates of completion. These programs are designed to teach students specific skills needed for entry-level jobs. This is accomplished through specialized training in the particular skills area.

Advanced Technical Certificate

An advanced technical certificate is generally designed for individuals who have already completed a two-year Associate of Applied Science degree and are seeking advanced, specialized preparation in a particular career to supplement their degree.

Occupational Skills Award

TSTC offers an occupational skills award. These short-term, skills-focused courses provide students with the basic technical

skills needed to start an entry-level career.

Core Curriculum Completion Certificate

A core curriculum completion certificate is awarded to all students completing the TSTC general education core. 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.

03. Money-Back Guarantee

TSTC's Money-Back Guarantee (MBG) program reinforces our commitment to prepare and place highly skilled, technically competent students in the workforce.

Programs eligible for the MBG program include:

- Diesel Equipment (Heavy Truck, John Deere Construction & Forestry, and Off-Highway)
- Electrical Lineworker
- Electrical Power & Controls
- Industrial Systems
- Instrumentation
- Precision Machining
- Process Operations
- Robotics
- Welding

Enroll in the Program

Students are eligible to enroll if they are in their first semester at TSTC, in an MBG-approved program working toward their Certificate or Associate of Applied Science degree (AAS), and eligible to work in the U.S. Visit the Career Services office to enroll during the first semester of the program.

Refund Amount

Only tuition dollars paid out of pocket are eligible. If a student used any student loans, TSTC will reimburse the student's lending agency.

04. Course Information

Developmental Education Courses

TSTC provides courses and learning activities designed to help students improve their reading, writing and math skills in order to prepare them for success in college-level courses. Developmental education courses are not counted as credit toward graduation, but rather are used along with credit courses for determining course load and satisfactory academic progress for financial aid.

General Education Courses



Associate of Applied Science (AAS) degree programs must contain a basic core of five general education courses. This basic core must contain a minimum of 15 semester credit hours and include at least one course from each of the following areas: Humanities/Fine Arts, Social/Behavioral Sciences and Natural Sciences/Mathematics. In addition, TSTC requires all AAS programs to include one course from the Communication/Writing component. General education core courses are specified within each associate degree plan.

Associate of Science (AS) degree programs must incorporate the college's approved academic CORE curriculum (see listing of general academic Core courses) unless an exemption exists. A list of exemptions defined by the Texas Higher Education Coordinating Board to offer specialized academic associate degrees is maintained by the Curriculum Department.

General education is an integral component of a degree program through which students 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 cognitive skills and effective learning opportunities for students. Such general education courses do not focus on skills, techniques and procedures specific to a student's occupation or profession.

Purpose

General education courses are basic to the purpose of TSTC and represent a commitment to offer breadth as well as depth to a student’s technical education program of study. TSTC’s inventory of general education courses offers a comprehensive general education program because:

1. Employers are interested in hiring technically trained graduates who, with an appropriate grounding in science (natural, behavioral and social), mathematics and technology, can communicate effectively, work well with others, make appropriate decisions, adapt to change and, in many cases, continue their education.
2. The general education courses provide foundational and thorough education that do not focus on specific skills, techniques, procedures or vocations.
3. General education courses assist in developing the ability to think critically, use logical reasoning in analyzing and solving problems and appreciate cultural diversity.
4. Many of our students need assistance in becoming prepared for college studies in the technical and general education components of their studies.
5. The general education courses are required to meet accreditation standards of regional, state and occupational groups requiring a broad range of knowledge when obtaining a degree or certification, and they fulfill the requirements agreed upon in articulation agreements with other colleges and universities.

The General Education Department strives to deliver courses that impart common knowledge, intellectual concepts and attitudes every person should have for career and life roles in addition to providing some of the basic competencies needed by technical students. The General Education Department seeks to provide students 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 the student’s participation in social, technological and cultural environments. These courses 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 the technical programs of study. These college-level courses are in the areas of communications, human relations, mathematics, natural science, social and behavioral sciences, business and humanities. These related studies courses in the certificate programs have numbers from the Workforce Education Course Manual as recognized by the Texas Higher Education Coordinating Board and 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 academic skills, teach positive study habits, develop

basic skill competencies necessary for major program success and allow students to explore career options of the college's major programs. These courses seek to make students better prepared to complete their studies in their major programs of study. Finally, these courses support skills that must be acquired for students to successfully meet the requirements of TSTC's Texas Success Initiative.

Humanities 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."

Provided is a list of general education courses by category, and minimum hours per category, that will satisfy the 15 semester hour basic core requirement for any TSTC AAS degrees. These courses are taught by TSTC General Education Department and/or 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

Behavioral/Social 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
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

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
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
Anyone with questions regarding transfer credit should contact the enrollment center and those with questions regarding special partnerships should contact the Educational Partnerships Office.

Additional courses may be accepted on transfer from other colleges.

Questions on the transferability of outside courses to meet the Humanities/Fine Arts elective, the Natural Sciences/Mathematics elective, Behavioral/Social Science elective, Communication/Writing elective or General Education elective requirements should be addressed to the Director of Alignment for Academic Core/Designated AS Programs.

Academic Core Courses



The following is a list of General Education courses offered by TSTC General Education departments and/or programs used to satisfy the 42 semester hour Academic Core Curriculum Certificate (CCC) and the general education CORE component for AS degrees.

TSTC's Harlingen campus offers the Texas Core Curriculum, a core package 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. More information on course content and lecture and lab hours is included in the course descriptions section of this catalog.

Selection of courses within each category must be based upon the student's demonstrated abilities, desired major and intentions for graduation. Not all courses are offered every semester. Students must attain a "C" or better in all Academic Core courses to be eligible for certificate of completion. Additional hours may be taken beyond the minimum shown.

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
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)
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 the course may also be taken as an elective beyond 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
BCIS 1305 Business Computer Applications
BUSI 1301 Business Principles
BUSI 2301 Business Law

CHEM 1105 Introductory Chemistry Laboratory I (Lab)

COSC 1301 Microcomputer Applications

COSC 1336 Programming Fundamentals I

COSC 1337 Programming Fundamentals II

COSC 2325 Computer Organization

COSC 2336 Programming Fundamentals III
ENGL 2307 Creative Writing
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
GEOG 1303 World Regional Geography
MATH 2305 Discrete Mathematics (MATH 2413*)
TECA 1354 Child Growth and Development
(*Course Prerequisites)

Prerequisites and Corequisites

Students must complete designated prerequisite courses before registering for certain courses and must take corequisite courses during the same term. Such requirements are indicated as part of the course descriptions. Students are responsible for taking courses in sequence and at the proper level. Failure to adhere to prerequisite and corequisite requirements may result in the students being withdrawn from the courses.

Credit Award for Assessments and Training

Credit awards for TSTC courses based on credit by examination or nontraditional training and experiences is available to students who plan to enroll at TSTC and to currently enrolled students. TSTC awards credit for various examinations published by the College Board, including the College Board Advanced Placement Program (AP) and the College-Level Examination Program Subject Exams (CLEP-S). TSTC also awards credit for training received while in the United States Armed Services, for credit earned through the International Baccalaureate Diploma Program and for credit earned in high school dual enrollment courses. Students may also be eligible to receive credit awards for other types of training and experience subject to review and approval by the appropriate college official.

General Rules and Regulations

The total number of semester credit hours awarded for Credit Awards may vary depending upon the student’s program of study; however, the total credit awarded (including transfer credits) cannot exceed 75% of the total credits required for the student’s declared program of study. At least 25% of the total credits in a TSTC student’s certificate or AAS degree plan must be earned through regular SCH instruction at a TSTC campus or at another institution of higher education in partnership with TSTC.

While credit may be awarded by TSTC for external exams and training, this credit may not satisfy requirements for a specific program of study. Students should check with program advisors to determine if accepted Credit Awards will meet program requirements.

A grade of CR (credit) will be assigned for any course in which Credit Awards are received. This grade is not computed in the grade point average, and the credit does not count toward calculation of student load for a term. The student is responsible for obtaining documentation of external exam scores and/or other training and submitting it to the Enrollment Center at a TSTC campus. Scores for the College Examination Program (CLEP) and Advanced Placement (AP) examinations, as well as other Credit Award documentation, should be received prior to enrollment for use in course advisement and placement.

Students must complete the appropriate Credit Award Request form with appropriate documentation to initiate the Credit Award process. Payment of any fees associated with Credit Award program must be received before credit can be posted to the student’s transcript.

Cooperative Education

Most certificate and degree programs offer students opportunities to participate in cooperative training with industry for at least one semester. Students in cooperative experiences earn up to 12 credit hours working at off-campus jobs related to their fields of study. This phase of training is a cooperative effort between the student, industry and TSTC to provide valuable work experience. Cooperative education is competitive, enabling some qualified students to earn income to help support their education. Students who are interested in participating in cooperative experiences should discuss the opportunities with their director of alignment.

Advanced Placement

Advanced Placement (AP) exams are offered by the College Board to students who complete AP courses while enrolled in high school. The exams cover a variety of subject areas including business, science and mathematics, history and social sciences, foreign languages, and composition and literature. For additional information regarding AP exams, see ES 2.10 Credit Award for Assessment and Training.

Credit for Military Training

Students who received training while in the United States Armed Services may receive credit for that training, provided appropriate documentation is provided and the training is equivalent to a course or courses offered by TSTC. Credit awarded for military training is based on the 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 specific subject area.

The Military Registries provide quality assurance and policy guidance to the U.S. Army, Navy and Marine Corps in support of the Army/ACE Registry Transcript Service (AARTS) and the Sailor/Marine/ACE Registry Transcript (SMART). More than 2,300 colleges and universities recognize these ACE-endorsed transcripts as official documentation of military experiences and accurate records of applicable ACE credit recommendations.

Students who wish to receive credit for military training should obtain a transcript from the Defense Activity for Non-Traditional Education Support (DANTES). This agency maintains the educational records of the service members who have completed DANTES Subject Standardized Tests (DSSTs), CLEP examinations, USAFI (United States Armed forces Institute) and a high school equivalency exam.

Before July 1, 1974, the results of courses and tests taken under the auspices of USAFI (United States Armed Forces Institute, disestablished 1974) are also available from the DANTES Program:

DANTES Program
The Chauncey Group International
P. O. Box 6605
Princeton, NJ 08541-6605

International Baccalaureate Diploma Program (IBD)

Students who have received an International Baccalaureate Diploma (IB) may receive TSTC course credit for the following exams with scores of four or higher on either standard level (SL) or higher level (HL) examinations. Students who have taken IB exams but do not have an IB diploma may receive credit for scores of five or higher on higher level (HL) examinations only.

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

Credit Award for Continuing Education and Experiential Learning

Students who have successfully completed continuing education (CE) courses offered by a TSTC campus are eligible to apply for semester credit hour technical course credit. CE coursework must be demonstrated to be substantially the same as the equivalent semester credit coursework. Students taking a CE training that leads to an industry-recognized credential, licensure or certification can utilize the credential to request college credit. Students must sign and submit a Continuing Education Hours Course Equivalency Evaluation form to the instructional administrator of the appropriate technical program in which the course(s) are managed.

Experiential learning allows students to receive college credit for equivalent educational experiences acquired through earlier schooling situations, work/on-the-job training or life experiences. Upon approval of the appropriate director of alignment and/or designated subject matter expert, a student may develop a petition for a course or courses offered by TSTC to gain college-level credit. Petitions are reviewed by the appropriate director of alignment and/or designated subject matter expert and submitted to the associate vice chancellor for Instructional Alignment & Innovation for approval.

Students with applicable skills and knowledge may also receive credit for technical courses in which proficiency is determined by comprehensive examination. These challenge exams are designed and written by qualified faculty and may be administered in the technical department or testing center. Students must pay a Challenge Exam testing fee prior to the test. The Challenge Exam testing fee will be approved by the Board of Regents (BOR) and will not be refundable regardless of the outcome of the assessment.

More specific information on credit award for continuing education units and experiential learning may be obtained from Quality Management. Testing center and/or evaluation fees may apply.

Audited Courses

Students may audit courses with permission from the course instructors. Students auditing courses must adhere to the same class requirements as those students taking the courses for credit. Audited courses are not considered when determining a credit hour load, and a grade of “AUD” is shown on the students’ grade reports. Students may take courses for credit after auditing them but may not receive credit by examination or use audited courses as course substitutions in degree or certificate plans. Students who audit courses will be charged state and designated tuition and an audit fee specified in the Tuition and Fees section of this catalog. Contact the Enrollment Center for more information.

Schedule Changes

The published academic calendar outlines the dates during which schedule changes may occur. Students may add or drop courses or change sections before classes begin by contacting their enrollment coach or program enrollment coach. After classes begin, all students may change their schedules by obtaining course schedule change forms available from the Enrollment Center, instructors and/or lead instructors. The completed forms must be submitted to the Enrollment Center by the deadline published in the TSTC college academic calendar. Changes are effective only when this process has been completed.

Drops and Withdrawals



Students may drop courses or withdraw from the college by completing a course schedule change form, obtaining the appropriate approval signatures and submitting the form to the Enrollment Center. The effective date is the date that the course schedule change form is received by the Enrollment Center. Deadlines for course drops and withdrawals from the college are published in TSTC's academic calendar.

See “Refunds for Changes in Enrollment” in the Refunds section for more information.

Courses that are dropped prior to the official census dates do not appear on the student’s transcript. After the official census dates, students who drop courses or withdraw from the institution receive marks of “W” (Withdrawal) provided that the forms are received on or before the published deadline. Students who withdraw from the institution may be asked to meet with a college representative.

Under section 51.907 of the Texas Education Code, “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.” This statute was enacted by the state of Texas in spring 2007 and applies to students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later. Any course that a student drops is counted toward the six-course limit if “the student was able to drop the course without receiving a grade or incurring an academic penalty; the student’s transcript indicates or will indicate that the student was enrolled in the course; and the student is not dropping the course in order to withdraw from the institution.” Some exemptions for good cause could allow a student to drop a course without having it counted toward this limit, but it is the responsibility of the student to establish that good cause.

Students who have completed at least 75% of the term and who are called to active military service may request an excused absence rather than withdrawal from their courses. Students who request leave based on military service will be given grades of “IM” in all courses and will have two years from the end of the term to complete course work. Grades of “IM” awarded to students called to military service will be changed to “W” grades if the required course work is not completed by the end of the two-year period.

Students who withdraw from the college must ensure that all library books and laboratory equipment are returned and all financial obligations are settled before they leave.

Administrative withdrawals may be utilized by Student Learning or Administrative Offices as deemed necessary to withdraw a student. Students who are administratively withdrawn are subject to TSTC's Refund and Grading Policy.

Student Participation

Students are responsible for their own class attendance and participation. Faculty members may establish requirements for student participation in specific learning activities both in and out of the classroom and may consider these requirements when determining final grades.

Faculty member or college administrator may submit a request to withdraw a student from one or more courses who is not meeting the required participation due to the development of unforeseen events beyond the student's control. These events may include serious illness, death in the immediate family, changes in condition of employment or military deployment. Administrative withdrawals are subject to TSTC's Refund and Grading Policy.

Student Absence and Religious Holidays

Under Texas Education Code 51.911, a student who is absent from class for the observance of a religious holiday is allowed to take an examination or complete an assignment scheduled for that day within a reasonable time period, as established by the faculty member. The student must give written notice by submitting a completed absence request form to the instructor within the first 10 days of the term. Contact the Enrollment Center for more information.

Transfer of Credit

The transfer of course credit from TSTC to other Texas colleges and universities is facilitated by the Texas Higher Education Coordinating Board (THECB) Academic Course Guide Manual and Workforce Education Course Manual. In general, students may submit an official TSTC transcript to another college or university for consideration of transfer credits. Acceptance of credits is at the discretion of the receiving institution. Contact the appropriate director of alignment for more information.

Resolution of Transfer Disputes for Lower Division Courses

The following procedures specified in Texas Higher Education Coordinating Board Rules (Chapter 4, Subchapter B, Section 4.27) shall be followed by institutions of higher education in the resolution of credit transfer disputes involving lower-division courses:

1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied, and shall include in that notice the reasons for denying the credit. Attached to the written notice shall be the procedures for resolution of transfer disputes for lower-division courses as outlined in this section, accompanied by clear instructions outlining the procedure for appealing the decision to the commissioner.
2. A student who receives notice as specified in paragraph 1 of this subsection may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution.
3. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with board rules and guidelines.
4. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the sending institution may notify the commissioner in

writing of the request for transfer dispute resolution, and the institution that denies the course credit for transfer shall notify the commissioner in writing of its denial and the reasons for the denial.

The commissioner or the commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

Each institution of higher education shall publish in its course catalogs the procedures specified in all subsections of Section 4.27 in the Texas Higher Education Coordinating Board rules.

The board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the commissioner or the commissioner's designee.

If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that the two institutions are unable to come to a satisfactory resolution, the receiving institution may notify the commissioner, who may investigate the course. If its quality is found to be unacceptable, the board may discontinue funding for the course.

05. Flexible Program Options

Performance-Based Education (PBE)

Some programs of study are offered in a Performance-Based Education (PBE) format, TSTC's version of Competency-Based Education (CBE). In PBE programs, student success is dependent on mastery of course skills and competencies based on an A,B, F grading scale. Some PBE programs are offered entirely online, while others are offered in the hybrid format, with lecture content online and in-person, scheduled, hands-on lab sessions. The self-guided characteristics of PBE instruction may allow students in certain programs to accelerate through a course and program.

Online Learning

Online courses and programs offer students the opportunity to complete coursework via the internet on personal computers. Each TSTC online program may have specific program requirements.

Depending on whether the online program is offered in a Performance Based Education (PBE) or traditional format, will determine whether students have the opportunity to work through course material in a self-guided manner with the opportunity to accelerate. Students who take online learning courses complete course requirements and communicate with instructors through the College's Learning Management System (LMS). Some online courses may require specific software or proctored exams. Please refer to course syllabi for this information. Virtual tutoring, through TSTC's Office of Student Success is available for some online courses.

The Student Online Learning Orientation (SOLO) course is recommended for all students new to online instruction at TSTC. The course provides instructions on the College's LMS and strategies for succeeding in the online environment. Contact the Office of Online Learning for information on the SOLO course. In most cases, tuition for online learning courses is the same as on campus courses. The Tuition and Fees section of this catalog provides more details. Students planning to take only online learning courses should notify the TSTC Enrollment Center so that the appropriate information and advising can be arranged.

Day, Evening and Weekend Courses

The majority of college credit courses are taught on weekdays during the day, with selected courses on available campuses offered during the evenings and/or on weekends. Workforce Training and Continuing Education courses are scheduled throughout these time periods. Contact the Workforce Training Office for details.

06. Dual Credit

The TSTC Dual Credit program provides an opportunity for high school students to earn college credit while still in high school. High school partners must have a Memorandum of Understanding with TSTC and meet applicable eligibility requirements for students to enroll in courses. Active dual credit students are to abide by the rules and regulations set forth in the TSTC Catalog and Student Handbook. Contact the Dual Credit Office for more information.

07. Workforce Training & Continuing Education

TSTC offers a range of workforce training and continuing education courses (CE) and programs. Credit in these courses and

programs is awarded as “Continuing Education Units” (CEUs), or Clock Hours, upon successful completion of course and program objectives. Courses may be offered to the general public or in a customized format for businesses and industries to meet specific workplace needs. Typical curriculum offerings include:

- Training and retraining programs that respond to requests or needs of business or other institutions and agencies.
- Specialized customized training courses, workshops, seminars and clinics.
- Training for industrial start-up or expansion programs.
- Workforce training to train for new careers and to provide skill updates, professional development, personal improvement and recreation.

Admission and Registration

The majority of CE courses and programs have no admission requirements; however, all participants are required to complete a registration form with basic demographic information. Some specialized programs may require demonstrated skills, competencies and some program requirements prior to enrollment.

Tuition and Fees

CE courses vary in price depending on the length of the course, special equipment or labs used in training and other factors. Customized CE training courses may be billed directly to the sponsoring business or industry.

Unless the course or student is sponsored by a business or agency, payment of all tuition and fees is required three business days prior to the first class meeting.

Class Records and Certificates for CEU Programs



Students completing CE courses receive one CEU for every 10 hours of participation in a Workforce Training & Continuing Education course or program.

Grades of Satisfactory “S” or Unsatisfactory “U” are typically awarded in CE classes. Other types of grades may be awarded depending on the requirements of the course sponsor. Students who successfully complete CE courses may request a certificate certifying the number of CEUs awarded.

CEUs earned in classes taught by TSTC may be converted to semester hour (college) credit that is applicable to a certificate of completion or associate degree. Refer to the Credit Award for Assessments and Training section of this catalog for more information.

Class Records and Certificates for Clock Hour programs

Students completing CE courses receive one hour for every hour of participation in a Workforce Training & Continuing Education course or program.

The following is the grading scale used for clock hour programs:

A: 90–100
B: 80–89
C: 75–79
D: 70–74
F: 0–69

Hours earned in classes taught by TSTC may be converted to semester hour (college) credit that is applicable to a certificate of completion or associate degree. Refer to the Credit Award for Assessments and Training section of this catalog for more information.

Satisfactory Pursuit of Program

Students must complete each course with at least a C or better to successfully complete the program (if applicable). Students who do not have acceptable classroom attendance or fail to meet learning objectives with a potential to not meet the grade requirement may be removed from the program.

Good Standing = C or better.
Probation = less than C.
Suspension = 3rd attempt of same course not meeting C or better.

Refund Policy for CE Courses

A. Students who voluntarily terminate their enrollment prior to the first day of class will receive a 100% refund.
B. Students who voluntarily terminate their enrollment after the first day of class, but before the third day of class will receive a 70% refund and no credit will be issued for the course.
C. Students who voluntarily terminate their enrollment after the third day of class will receive a 0% refund and no credit will be issued for the course.
D. Students that are forcefully terminated due to attendance and/or other authorized by administration will not receive a refund or credit for the course.
E. The institution reserves the right to cancel a continuing education course due to low enrollment, instructor unavailability, or other unforeseen circumstances. In such cases, students will be notified promptly, and a full refund of tuition fees will be issued.

CE Attendance Policy

CE students must typically hold a minimum of 90% attendance per course in order to maintain satisfactory progress unless a program's external governing agency requires differently. Such modification will be listed in the course syllabus.

Customized Training for Business and Industry

TSTC has a representative to respond to requests from businesses and other institutions or agencies to develop and offer specialized training for employees. Training may be provided at the college or at the sponsor's site of choice. For more information on specialized business and industry training, contact the Workforce Training & Continuing Education Office at workforcetraining@tstc.edu.

08. College Readiness

College Readiness Programs offer students the educational support needed to make the successful transition into college. These programs include Upward Bound, Upward Bound Math & Science, Educational Talent Search and a variety of other summer programs. All students who participate in any of these College Readiness Programs are expected to adhere to the rules and regulations set forth in this Catalog/Handbook. Specific programs may have additional policies and rules by which participants must abide.

11. Student Services

01. Student Housing

The College considers housing an added service for its students.

Occupancy in student apartments is assigned on a first-come, first-served basis.

The facilities are conveniently located at the College within walking distance of classroom buildings, laboratories and recreation facilities.

Visit tstc.edu/campus-housing to view housing options, photos and room layouts.

Housing Reservations

Because facilities are limited, the prospective student should complete a campus housing application as soon as possible, at least one semester in advance of the expected enrollment date. The application must be completed and returned with deposit, the Release of Background Information Form and the nonrefundable application fee. The deposit can be made by cash, credit card, check or money order payable to Texas State Technical College.

The deposit must be paid before the student is placed on the housing assignment list. If the student decides not to enroll

or live in campus housing, the deposit will be refunded. The deposit will be retained until the student properly clears/vacates housing, minus any appropriate cleaning fees or charges owed.

All rates are subject to change without notice due to economic conditions beyond the control of the College.

Housing Assignments

Returning students have priority in housing assignments. However, they must reserve their own residence for future occupancy according to the policy of their assigned facility.

Confirmation of housing reservations for available spaces will be made in writing to each applicant. When capacity is reached, additional applicants will be notified in writing that spaces are not available.

The student may request a certain space and/or roommate, and all possible consideration will be given to each request. The college reserves the right to assign students to specific spaces.

Students must remain in the facilities assigned to them unless permission for change is obtained from Housing. Moving without permission may result in eviction from campus housing. Housing reserves the right to move students to another space in order to conserve energy, for safety reasons, to conduct repairs or remodel, and for other reasons that are in the best interest of the College.

Missing Housing Resident Notification

If a member of the college community has reason to believe that a student who resides in on-campus housing is missing, he/she should immediately notify the TSTC police or security department. TSTC police will generate a missing person report and initiate an investigation.

Should TSTC Police determine that the student has been missing for more than 24 hours, they will notify the student's emergency contact or a confidentially identified individual.

In addition to registering an emergency contact, students in on-campus housing have the option to identify, confidentially, an individual to be contacted by TSTC in the event the student is determined to be missing for more than 24 hours.

If a student is less than 18 years old and is not an emancipated individual, federal law requires that TSTC notify a parent or guardian within 24 hours of when a student is confirmed missing.

Housing Regulations

Housing regulations are provided to each tenant in their contract and in Housing's Student Housing Handbook. The tenant may move into their assigned facilities in accordance with said facilities regulations. Move-in policy varies according to facility as well as campus. The tenant will terminate the lease and must vacate the residence if he/she ceases to be a TSTC student.

When the student properly vacates his or her assigned residence, the unused portion of advance rent will be refunded following inspection by Housing staff and the return of all room keys. However, no refunds will be made during the last 30 schools days of the semester.

A portion of the housing deposit will be withheld to defray costs of apartment cleaning and/or repair or replacement of lost items where tenant liability is obvious. Remaining portions of the housing deposit will be withheld to defray the cost of any rent or fees due.

All rental rates are based on the TSTC approved fee schedule.

Housing Accommodations for Students with Disabilities

Students with disabilities that require accommodations for TSTC housing must contact Access & Learning Accommodations in a timely manner for further guidance on the accommodations process. Students with disabilities are encouraged to self-disclose when initiating the housing application process. Please see the Access & Learning Accommodations section to find contact information for these services.

02. Access and Learning Accommodations

Students with Disabilities

The TSTC Access and Learning Accommodations (ALA) office serves as a resource for students who may experience barriers due to a disability (long-term or short-term).

Students seeking accommodations or services should make contact with the ALA office in a timely manner to self-report and begin the interactive process with an ALA staff person. Students may also be asked to provide supporting documentation from an individual qualified to diagnose the disclosed disability.

ALA will then collaborate with college personnel to develop appropriate accommodations to ensure equal access to all programs, activities and services at TSTC.

ALA also coordinates with community assistance programs and serves as the liaison for Texas Workforce Solutions.

To make contact with the ALA office, please email adarequest@tstc.edu or a representative from your campus.

The goal of the Americans with Disabilities Act of 1990 (ADA) and the Amendments Act of 2008 (ADAAA) is to guarantee that individuals with disabilities are given equal opportunity for full participation, independent living and economic self-sufficiency. In post-secondary education, individuals with disabilities are provided reasonable and appropriate accommodations to ensure equality in obtaining an education. Accommodations are based on the need of the individual and are reviewed on a case-by-case basis. Such reasonable accommodations do not include personal services, lack of preparation or lack of time management skills.

Service and Emotional Support Animals on Campus Grounds

Texas State Technical College allows individuals to bring animals on college property in accordance with federal laws and in other situations subject to the rules outlined below. At the same time, TSTC recognizes the health and safety risks potentially created by unrestrained animals on campus.



Definitions

Emotional Support Animal: An animal that is necessary to afford a person with a disability an equal opportunity to use and enjoy a dwelling when there is an identifiable relationship or nexus between the person’s disability and the assistance the animal provides.

Service Animal: A dog individually trained to do work or perform tasks for a person with a disability. Examples of such work or tasks include guiding people who are blind, alerting people who are deaf, pulling a wheelchair and alerting/protecting a person who is having a seizure. The provision of emotional support, well-being, comfort or companionship does not constitute work or tasks for the purposes of defining a service animal.

Service Animal in Training: A dog undergoing training by an approved trainer who is an agent of a reputable organization and competent to provide training for assistance animals and/or their handlers.

Procedures

Animals brought on campus must be under the complete control of the owner at all times and present no hazard to people or property. The wearing of a muzzle by a dog shall not be regarded as control by its owner. Dogs and cats brought to campus must have a valid license as evidence of current rabies vaccinations and fulfill all local requirements applicable to animals or they may be subject to removal from campus. In all cases, the owner of the animal is responsible for the animal’s behavior.

In general, TSTC will not ask about the nature or extent of a person’s disability, but may make two inquiries to determine

whether an animal qualifies as a service animal. TSTC may ask:

- If the animal is required because of a disability and;
- What work or task the animal has been trained to perform.

Animals on campus grounds must be secured to a leash, cord, chain or similar direct physical control of a maximum length of 6 feet, the other end of which is restrained by a person. If this constraint interferes with a service animal's work or if the individual's disability prevents using these devices, the individual must maintain control of the animal through voice, signal or other effective controls. The physical constraint of the animal does not apply to service or support animals kept within an individual's college housing assignment.

Animals must not be tethered to a stationary fixture or tree when left unattended. TSTC may take reasonable efforts to remove an animal confined in a vehicle when there appears to be imminent danger to the animal due to temperature conditions or inadequate ventilation. TSTC is not liable for any associated repair/damage costs to the vehicle for this action and the animal's owner assumes full responsibility.

TSTC retains the right to take action to remove any animal from the college premises if the safety of others, destruction of property or disturbance warrants such removal. The removal of any animal and any necessary cleaning, repairs and/or pest control will be done at the expense of the owner. The owner may also be subject to disciplinary action and this action may also extend to cases involving service and support animals. TSTC may not permit service animals when the animal poses a substantial and direct threat to health or safety, or when the presence of the animal constitutes a fundamental alteration to the nature of the program or service. TSTC will make those determinations on a case-by-case basis.

Some people may have allergic reactions to animals that are substantial enough to qualify as disabilities.

TSTC will consider the needs of both persons in meeting its obligations to reasonably accommodate all disabilities and to resolve the problem as efficiently and expeditiously as possible. Students requesting allergy accommodations should contact the Access and Learning Accommodations office.

Service Animals

The college permits service animals into campus buildings where other animals would typically not be permitted. This practice follows Titles II and III of the Americans with Disabilities Act Amendment Act (ADAAA).

The service animal must have been trained as a service animal in the work or tasks directly related to the person's disability. Individuals are permitted to bring his or her service animal in all areas of the campus, including any place of public accommodation. Individuals living in college housing will be permitted to have no more than one service or support animal. A student must seek registration for a service animal to reside in college housing space. Information and procedures to gain approval may be found at the housing office for your campus.

Service animals in training on campus are allowed if the individual is an approved trainer, who is an agent of an organization recognized as reputable and competent to provide such training, and the individual submits proof to the Access and Learning Accommodations Office that he or she is the approved trainer as required in Texas Human Resources Code Dec. 121.003. Individuals participating in an internship off campus must refer to the entity's ADA designee for any inquiries regarding the requirements for service animals in training to enter their facility.

Emotional Support Animals

In accordance to the Fair Housing Act of 1988 and the U.S. Department of Housing and Urban Development, the college permits an individual with a disability to keep an emotional support animal within his or her college housing and on college grounds. The emotional support animal is not allowed to accompany the student into other public buildings on campus, including the dining area.

All animals must comply with the city code of ordinances of the campus where the student resides, and will be considered for approval on a case-by-case basis by the TSTC Access and Learning Accommodations Office.

Animals defined as "dangerous wild animals" in the Texas Health and Safety Code §822.101 (big cats, apes, bears, hybrids of these animals), primates, high-rabies-risk animals (bats, fox, raccoon, coyote), venomous animals and domestic animals with unknown health history are not allowed.

The Code says a "dangerous wild animal” means:

- A lion;
- A tiger;
- An ocelot;
- A cougar;
- A leopard;
- A cheetah;
- A jaguar;
- A bobcat;
- A lynx;
- A serval;
- A caracal;
- A hyena;
- A bear;
- A coyote;
- A jackal;
- A baboon;
- A chimpanzee;
- An orangutan;
- A gorilla; or
- Any hybrid of an animal listed in this subdivision.

In addition to the above mentioned, the college reserves the right to remove an emotional support animal if:

- It poses a direct threat to the safety of others or causes significant property damage;
- Its presence results in an undue burden or fundamental alteration of a college's program;
- It creates an unmanageable disturbance or interference with the college community, and/or
- The student does not comply with the conditions set forth by the Access and Learning Accommodations office and the Student Housing Office.

Criteria for Emotional Support Animals in Housing

Typically, an emotional support animal is recommended to an individual with a disability by a health care or mental health professional and is an integral part of a person’s treatment process. Individuals living in college housing will be permitted to have no more than one emotional support animal. The Access and Learning Accommodations office manages requests related to a support animal within the student’s college housing assignment. Requests made by faculty or staff residing in housing should be directed to the Housing Department and Human Resources office.

Animal Etiquette

To the extent possible, the handler should ensure that the animal does not sniff people, restaurant tables or the personal belongings of others. Also, the animal should not display any behaviors or noises that are disruptive to others, unless part of the service being provided to the handler. Furthermore, it is the handler’s responsibility that the animal does not block an aisle or passageway for fire egress. Violation of this on behalf of an individual may result in disciplinary action.

Public Etiquette Toward Service or Emotional Support Animals

It is OK to ask someone if she/he would like assistance if there seems to be confusion. However, faculty, staff, students, visitors and members of the general public should avoid the following: petting a service animal, as it may distract them from the task at hand; feeding the service animal; deliberately startling a service animal; and separating or attempting to separate a handler from his/her service animal. Individuals found in violation of this may be subject to disciplinary action.

Waste Cleanup Rule

Cleaning up after the animal is the sole responsibility of the handler. In the event that the handler is not physically able to clean up after the animal, it is then the responsibility of the handler to make arrangements to have someone available who is capable of cleaning up after the animal. The person cleaning up after the animal should abide by the following guidelines: always carry equipment sufficient to clean up the animal's feces whenever the animal is on campus, and properly dispose of waste and/or litter in appropriate containers. TSTC may impose a financial responsibility on the handler in the event TSTC staff is needed to cleanup.

Exemptions

Animals involved in authorized research, K-9 animal (police dog), animals being temporarily held by Environmental Health and Safety, fish contained in aquariums or animals used for performance on premises or involved in college sponsored activity.

Appeal Process

An individual may appeal the decision to the college ADA coordinator. The process for appeal can be found in SOS ES 3.26 Students with Disabilities.

Grievance Procedure for ADA-Related Complaints

Primary responsibility for ensuring compliance with the ADAAA rests with the college's ADA/504 coordinator.

The release of and access to all student-related educational records will be in compliance with the Family Educational Rights and Privacy Act (FERPA).

TSTC students who believe that they have been denied equal access in the form of appropriate accommodations, modifications, auxiliary aids, effective communication or experienced discriminatory harassment as described in Section 504 of the Rehabilitation Act of 1973 or The Americans with Disabilities Act of 1990 have a right to file a grievance. The TSTC procedure for the filing of student-related grievances alleging violations of the ADAAA and Section 504 is as follows:

1. The student shall submit a written complaint to the Office of Access and Learning Accommodations or its designee as soon as the complainant becomes aware of the alleged violation, but no later than 10 working days after the alleged action occurred. The time for submitting a written complaint can be waived for good cause as determined by the Office of Access and Learning Accommodations or its designee. The written complaint must include the name and address of the person filing the complaint, a brief description of the alleged violation and any documents supporting the complaint. The Office of Access & Learning Accommodations or its designee shall assist the student in the interactive process in an effort to clarify and resolve the issue. At times, the ALA office or its designee may consult with the ADA coordinator, staff and/or other pertinent parties to assist in the resolution process.
2. The ALA office or its designee shall review the complaint and provide the student a response within 10 working days following receipt of the complaint. An extension of time may be made, not to exceed 15 working days, if the student is notified by the ALA office or its designee.
3. If the student is not satisfied with the decision of the ALA office or its designee, a written complaint may be submitted to the ADA coordinator within 10 working days of the decision provided in step two. The time for submitting a written complaint may be waived for good cause as determined by TSTC's ADA coordinator. The written complaint must include the name and address of the person filing the complaint and a description of the reason for the complaint. Upon receipt, TSTC's ADA coordinator shall review the complaint within 10 working days. An extension of time may be made, not to exceed 15 working days, if the student is notified by the ADA coordinator. When necessary, the ADA coordinator shall consult with the ALA office and/or the ADA compliance committee to assist in the resolution.

The ADA coordinator's decision shall be final at the college level.

If a complaint is not resolved at the college level, the student may choose to file a complaint with the Federal Office of Civil Rights. The Federal Office of Civil Rights will receive complaints and investigate as deemed appropriate.

Note: Accommodations can be requested at any time during the Student Appeals Process by contacting the Office of Access and Learning Accommodations.

Access and Learning Accommodations Contacts

West Texas:

Abilene, Breckenridge, Brownwood and Sweetwater
300 Homer K. Taylor Drive
Sweetwater, TX 79556
325-235-7311

East Williamson County
East Williamson County Higher Education Center

1600 Innovation Blvd.

Hutto, TX 78634
512-759-5907

Fort Bend County & New Braunfels
Brazos Center
26706 SW Freeway
Rosenberg, TX 77471
337-936-3739

Harlingen/Online Students
Student Services Bldg. EK, Room 216
1902 N. Loop 499
Harlingen, TX 78550
956-364-4520
TTY: 956-364-4526

North Texas
119 N. Lowrance Road
Red Oak, TX 75154
469-820-6811

Marshall
Administration Building, Room 150
2650 E. End Blvd. South
Marshall, TX 75671
903-923-3231

Waco
Student Services Center
3801 Campus Drive
Waco, TX 76705
254-867-3600

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

Access and Learning Accommodations Office
254-867-3600

adarequest@tstc.edu

03. Counseling Services

TSTC is committed to bolstering the wellness of its students and helping them find an optimal and safe environment in which to grow, develop and reach their full potential.

Counselors can promote positive mental health for improved personal, career and academic growth. In counseling, you can receive assistance from a caring professional who is not directly impacted by how you live your life or the choices you make. Regardless of what you share, our experienced counseling staff is on your side.

Counseling services are available for all currently enrolled TSTC students at all campus locations. Walk-ins are welcome, but having counseling sessions are dependent on availability. If another student has an appointment, then they will take precedence over any walk-ins except in a crisis situation. Services are available to students participating in online classes, and sessions can be scheduled for virtual appointments.

Drug and Alcohol Policy Statement

Texas State Technical College is a drug- and alcohol-free college and workplace. The unlawful manufacture, distribution, purchase, dispensation, possession or use of illegal drugs or alcohol by students and employees on college property, or as a part of any college-sponsored activity, is prohibited. Students violating any provision of the drug and alcohol policies are subject to disciplinary sanctions ranging from probation, suspension or expulsion to referral for prosecution. Employees who violate any provision of the drug and alcohol policies may be subject to disciplinary action up to termination.

Alcohol and Drug Use

Drug and alcohol use, misuse and abuse are complex behaviors with many outcomes at both the cultural and individual levels. Awareness of the dangerous effects of drug/alcohol use is imperative for an individual's well-being or survival. Negative consequences of drugs/alcohol may be exhibited through physical dependence (the body's learned requirement of a drug for functioning) or psychological dependence (the experiencing of persistent craving for the drug and/or a feeling that the drug/alcohol is a requirement for functioning).

Abuse of any drug/alcohol whether licit or illicit may result in marginal to marked, temporary to permanent physical and/or psychological damage, even death. Since many of the illicit drugs are manufactured and sold illegally, their content varies and may contain especially harmful ingredients or amounts. Regardless of the types of drug/alcohol utilized, a perceived need for the continued use is likely to ensue, resulting in dependence. Dependence on drugs and/or alcohol alters the user's psychological functioning. The acquisition of drugs and alcohol becomes the primary focus of the drug-dependent individual and often results in reduced job performance and jeopardizes family and other interpersonal relationships. Criminal behavior is frequently the means for financing a drug habit. Behavioral patterns often include violence and assault as the individual becomes increasingly drug/alcohol dependent. Social and psychological alienation and medical problems increase as the abuser becomes entrapped in drug/alcohol dependence. For more information on drug/alcohol counseling and referrals, please contact Counseling Services at your campus.

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.

The Conduct Officer has authority to sanction as seen fit for any violation of the Code of Student Conduct involving drugs and alcohol. For more information on the disciplinary process, review the Code of Student Conduct.

The Family Educational Rights and Privacy Act (FERPA) permits colleges and universities to inform the parents/guardians of students less than 21 years of age when their son/daughter has been found in violation of college alcohol and drug regulations.

Any student exhibiting signs of excessive drug/alcohol consumption will be transported via Emergency Medical Services (EMS) at the student's expense for medical attention. Refusal to cooperate with EMS personnel may result in arrest (by local/campus police) in order to ensure the student's health and safety.

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, visit the Drug Free Schools and Campus Act page on TSTC's website.

Counseling Services Contacts

Abilene, Breckenridge, Brownwood, Sweetwater
650 E. Highway 80
Abilene, TX 79601
325-734-3653

East 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
903-923-3318

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)

Texas State Technical College (TSTC) Advocacy & Resource Center (ARC) is dedicated to providing Texas-Sized Care and helping students develop transitional skills to help them achieve success in their academic, career and life goals in an inclusive environment that embraces the diversity of our students and community.

The ARC is designed to assist students with non-academic barriers and help the student to get back on the path toward graduation. The office functions as a resource and referral center. When life happens, we have resources that can help.

ARC Services

Food & Hygiene

The ARC assists students who are food insecure by offering snacks, nonperishable food and personal hygiene items. This service is free for all students. We believe hunger should not be an obstacle in reaching your academic goal. Donations of nonperishable food and personal hygiene items are always welcome.

Child Care Assistance

The ARC also provides referrals for child care. Some locations assist with child care stipends. Services are contingent to meeting the qualifications for each respective campus and child care servicing agency.

Transportation Assistance

Transportation stipends are available at all campuses through ARC for students who meet program qualifications.

Book & Tool Program

The ARC assists students with books and tools from the Lending Library. Priority is given to special population students, including non-traditional, out-of-workforce individuals, single parents, veterans and students with disabilities.

Additional Services

The ARC provides a range of additional assistance for students, including:

- Clothing.
- Counseling referrals.
- Housing assistance.
- Utility bill assistance.
- Community resource referrals.
- Emergency aid.
- Case management and life skills workshops.

Services for Students Who Are The Parent or Guardian of a Child Younger than 18 Years of Age

ARC staff members serve as liaison officers for current or incoming students at TSTC who are the parent or guardian of a child younger than 18 year of age. ARC can provide information to students regarding support services and other resources available to students at the institution including, but not limited to:

- Child Care Referrals.
- Child Care Assistance Stipends (services are contingent to meeting the qualifications for each respective 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, including programs related to food security, affordable housing and housing subsidies.
- Referrals to other support services offered by TSTC, such as tutoring, mentoring, counseling and more.
- Referrals for employment assistance.
- Other ARC services and referrals that can support the student's needs.

Services for Students Who Were Formerly in the Conservatorship of DFPS

ARC staff members serve as liaison officers for current and incoming students at TSTC who were formerly in the conservatorship of DFPS. ARC can provide information regarding support services and other resources available to the students at the institution and any other relevant information including, but not limited to:

- Referrals to the DFPS PAL caseworker for their region.
- Assistance navigating the foster care tuition waiver process.
- Referrals for scholarships.
- Emergency aid specifically 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 offered by TSTC, such as tutoring, mentoring, counseling and more.
- Other ARC services and referrals that can support the student's needs.

How to Connect with ARC

Learn more about the ARC and TSTC's Culture of Caring by emailing cultureofcaring@tstc.edu or visiting our website. Here you can find ARC staff contact information and the Request for Support Form. Students at all TSTC locations and TSTC Connect students can connect with an ARC staff member by contacting us.

Advocacy & Resource Center Locations

East Williamson County
1600 Innovation Blvd. (CR 108)
Hutto, Texas 78634

Fort Bend County

ITC 2nd Floor, Suite 234

26706 SW Freeway
Rosenberg, TX 77471

Harlingen

Student Services Center

1902 N. Loop 499
Harlingen, Texas 78550

Marshall
Housing Commons Building H, Room 101
2650 East End Blvd. South
Marshall, TX 75672

North Texas
119 N. Lowrance Rd
Red Oak, TX 75154

Waco
Student Services Building, Suite 136
3801 Campus Drive
Waco, Texas 76705

Abilene

650 E. Highway 80, Room 144
Abilene, TX 79601

Sweetwater

Student Center, Room 106

300 Homer K. Taylor Dr.

Sweetwater, TX 79556

Breckenridge (food pantry)

Technology Center

307 N. Breckenridge Ave

Breckenridge, TX 76424

Brownwood (food pantry)

Welcome Center

305 Booker St.

Brownwood, TX 76801

New Braunfels (food pantry)

TSTC & FAME Center

Student Lounge, Room 123

2189 FM 758

New Braunfels, TX 78130

05. Student Success

The Office of Student Success

The Office of Student Success coordinates and implements student success initiatives that provide students with opportunities to achieve their academic, career and personal goals.

Student Success initiatives include:

- The HATSS Mentoring Program (Helping A TSTC Student Succeed) provides mentoring through guidance, academic support and the delivery of information on academic and financial aid policies critical to students on scholastic appeal and/or financial aid suspension appeal. The program includes interventions designed to improve student success.
- The Tutoring Program offers free tutoring services in academic and technical subject areas to students across all TSTC campuses. Tutoring services are offered through live, virtual tutoring sessions, except on the Harlingen campus, where in-person tutoring is available in a limited number of courses.
- A referral system where students can be referred to campus and community resources.
- Seminars and workshops on academic policies, test-taking and learning strategies, leadership qualities, time management, organization, balancing work, school, and other responsibilities and related topics.
- GPA and completion rate forecasting to help students project where they stand academically at any point during the semester. This is especially helpful to students in the HATSS program, on scholastic probation and/or financial aid warning.
- Chancellor's & Scholastic Excellence Honor Roll. Every semester the Office of Student Success posts the names of all students meeting the criteria for Honor Roll on the TSTC Website. The Chancellor's Honor Roll requires that a student have a semester GPA of 4.0 and be a full-time student. The Scholastic Excellence Honor Roll requires that a student have a semester GPA of 3.5 to 3.9 and be a full-time student.

Helping a TSTC Student Succeed (HATSS) Mentoring Program

HATSS is a mentoring program for students on academic suspension and/or financial aid suspension Appeal (SAP Appeal). Students in the HATSS Mentoring Program are required to participate in different program interventions (orientation, mentor meetings, workshops, tutoring/study hours, etc.). HATSS students who fail to participate in the program interventions and who fail to demonstrate academic progress, risk being administratively withdrawn from all their classes, with the exception of students enrolled in Performance Based Education (PBE) courses. However, participation for students enrolled in Performance Based Education courses is still required and greatly beneficial to students, especially for any future appeals through the HATSS Mentoring Program. Students who participate in HATSS Mentoring Program interventions are more likely to succeed in their academic goals.

HATSS students who are administratively withdrawn, who fail the semester or who drop all their classes on their own will be suspended for the following semester. Thereafter, students who wish to return to TSTC will again be required to appeal through the HATSS Mentoring Program. Past participation in HATSS Mentoring Program interventions, or lack thereof, will be considered. Appeals are not guaranteed. HATSS students who participate in the program interventions and who meet certain standards of academic progress by the end of the semester will be referred to their Enrollment Coach for consideration for a financial aid appeal (when applicable) for the upcoming semester.

More information can be found on theHATSS Mentoring Program page on the Portal.

Tutoring Program

The Tutoring program at TSTC offers free tutoring services to all TSTC students. The program offers tutoring in technical and academic subject areas to help students achieve their academic and career goals. Students can request tutoring services by clicking tstc.edu/tutoring or on the "Need Tutoring" icon located at the top of the Student Portal landing page. Students can also access the tutoring schedule, tutoring FAQs, the MyTSTC video library and other resources by visiting our Tutoring Program Portal Page or by going to the Portal and clicking on the Student Learning drop-down menu. Tutoring services are delivered on an individual or group basis through live, virtual sessions conducted via Google Meets. The program offers evening and sometimes Saturday tutoring sessions in certain subjects. Limited in-person tutoring is available at the Harlingen campus only, at this time. Check the Statewide Tutoring Schedule on the Tutoring Program Portal Page for more details.

For more information, please contact Norma A. Salazar, statewide lead for Student Success, at 956-364-4557 or nasalazar@tstc.edu.

06. Career Services

Career Services is the place to go to hire or get hired. It is part of our mission to meet the workforce needs of this great

state. To that end, Texas State Technical College (TSTC) boasts a high job placement rate. We work diligently to connect industry statewide to our highly skilled and qualified TSTC students and alumni.

Through strategic partnerships with industry leaders within each technical program, Career Services provides opportunities for students/alumni to be successful in the job search process.

TSTC places a high priority on helping graduating students find fulfilling careers in their chosen field of study. The department empowers students and alumni to articulate and leverage their technical skills and real-life experiences to be competitive in the ever-changing job market. The philosophy of the college is that its job is not complete when the student finishes his or her studies but continues with assistance in securing employment TSTC provides career development services to all students and graduates. Every effort is made to assist students as they seek employment or to further their education.

Career Services may decline to post any job ads for any employer that fails to abide by the rules and procedures, outlined in the Principles for Professional Practice (provided by NACE-National Association of Colleges and Employers), and to comply with applicable laws in its job postings.

“Employment professionals will maintain equal employment opportunity (EEO) compliance and follow affirmative action principles in recruiting activities in a manner that includes the following:”

Recruiting, interviewing and hiring individuals without regard to race, color, national origin, religion, age, gender, sexual orientation or disability, and providing reasonable accommodations upon request;

1. Reviewing selection criteria for adverse impact based on the student’s race, color, national origin, religion, age, gender, sexual orientation or disability;
2. Avoiding the use of questions that are considered unacceptable by EEO standards during the recruiting process;
3. Developing a sensitivity to, and awareness of, cultural differences and the diversity of the workforce;
4. Informing campus constituencies of special activities that have been developed to achieve the employer’s affirmative action goals;
5. Investigating complaints forwarded by the Career Services Office regarding EEO noncompliance and seeking resolution of such complaints.

07. Student Leadership & Clubs

Clubs and Organizations

Students are encouraged to join or organize clubs with the guidance of a TSTC faculty or staff advisor. Some student clubs allow dual credit students to join. Clubs can be related to professional careers or nonacademic interests. The advisor is responsible for students’ actions in any activity sponsored by the organization or club. All clubs or professional organizations must be granted approval.

All officially recognized student organizations sponsoring social functions, fundraisers, and/or volunteer activities, either on or off campus, must coordinate and register such functions with the college. Student organizations and their advisors (sponsors) are responsible for compliance with TSTC policies and regulations and all applicable state and federal laws.

TSTC is judged by the actions of its students, on and off campus. Therefore, students will be responsible to college authorities for any questionable acts regardless of where they are committed.

Students interested in starting a new club or organization are encouraged to visit with the Student Engagement for further guidance.

Student Clubs/Organization Risk Management Policy
In accordance with Texas Education Code §51.9361, the advisor and president, or other designated officer, of each registered student organization shall attend a risk management program each academic year.

By law the training will include, but not be limited to, the following topics:

- 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 risk management policy.
- Issues regarding persons with disabilities.

Failure to comply may result in the student organization's recognition being withdrawn, withheld or denied by the administration or Board of Regents of the college.

Free Speech

As an institution of higher learning, TSTC is dedicated to maintaining a college community that values and encourages the free exchange of ideas. The college will honor the rights of free speech, expression, petition and peaceful assembly as set forth in the U.S. Constitution.

Contact the Office of Retention Services about specific guidelines.

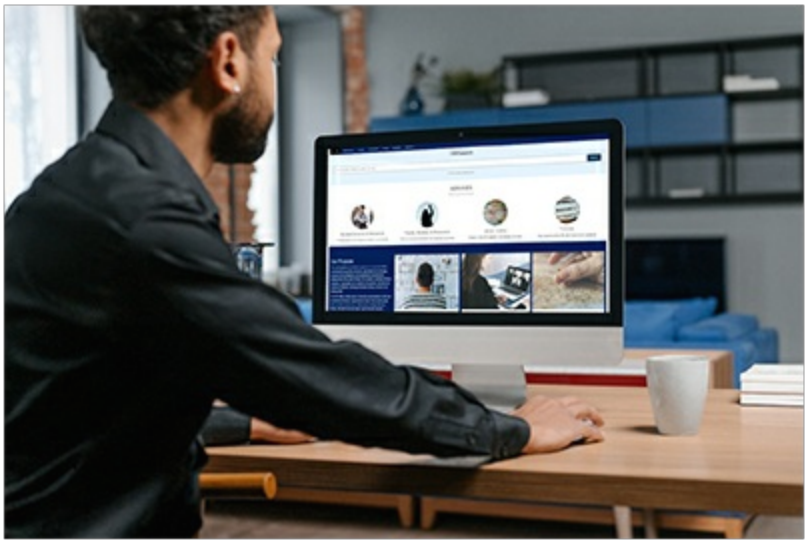
Student Travel

Official student travel is defined as travel involving one or more students traveling to an event or activity that is organized or sponsored by TSTC and is located more than 25 miles from the college or during which the students will be staying overnight. International travel is not permitted at TSTC. The faculty/staff member or student club advisor is responsible for ensuring that all TSTC rules and regulations are followed. During any trips requiring an overnight stay, the advisor(s) and students must stay in the same hotel facility/complex. Students and advisor(s) must travel together during any off campus trips. The faculty/staff member or club advisor must complete and submit an official student travel packet at least 10 days prior to the sponsored trip. For more information, please see the Student Organization Handbook.

Students in good standing, with at least a 2.0 GPA, and without holds on their account are eligible to travel. Each student will be evaluated on a case-by-case basis.

Students driving personal vehicles and/or transporting others in their personal vehicles on college trips must sign waivers and show proof of current liability insurance. Students will be required to ride in state vehicles or contracted transportation on long trips offered by the college. Those students traveling in a state vehicle sign a field trip release form. Students are not permitted to drive state vehicles. For more information, see Statewide Operating Standard (SOS) ES 3.22 Student Travel.

08. Library Services



Library Services combines subject specialists with an online library of electronic resources to foster learning and exploration in a diverse community. These materials support the College's curricula and programs, offering information literacy and lifelong learning skills while shaping the student to get hired

Students and employees have 24/7 access to electronic resources in the form of databases, websites, e-books, e-journals, e-audio and video streaming. Trained staff are available to assist in locating and using the online materials. Library services include but are not limited to research help, program/subject LibGuides, reference support, instructional videos, library events and tutorials.

For more information, visit tstc.libguides.com, email asklibrary@tstc.edu, text 254-332-2968, or chat/submit questions at tstc.libguides.com/askus. Click 254-332-2968 on your cell phone to save Library Service's phone number to your contacts.

09. TSTC Café

TSTC provides food service at various campuses. Meals are not offered on weekends. Please contact your local food service for hours of operation and cost.

Meal plans are offered on the Harlingen, Sweetwater and Waco campuses. Purchase of a meal plan is required for housing residents under age 21 for the first two semesters. Visit tstc.edu/campuses for details.

12. Campus Security and Safety

01. Annual Security Report (Clery Report)

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, originally known as the Student Right-to-Know & Campus Security Act, is a federal law that requires colleges and universities to publish an annual report by October 1 each year that contains data related to reports of crimes occurring on campus, at off-campus college facilities, residence halls and public property immediately adjacent to the campus. In addition, this report identifies specific policy statements.

The Campus Fire Safety Right-to-Know Act became federal law with the passage of the Higher Education Opportunity Act of 2008. The new law requires colleges and universities that maintain on-campus housing facilities to compile an annual fire safety report that gives students, parents and the public current information about fires in on-campus housing.

The Texas State Technical College (TSTC) Police Department maintains a crime log with summary information about crimes reported to the College Police, and also maintains a fire log that records, by date reported, any fire that occurs in an on-campus student housing facility. The crime log and fire log are open for public inspection during normal business hours.

It is the policy of TSTC to fully comply with the federal mandates of the Clery Act by collecting and furnishing the Annual Security and Fire Safety Report.

The Clery Report contains data regarding specific criminal offenses that occurred on campus during the most recent calendar year and the two preceding calendar years, as well as the number of arrests for crimes occurring on campus. The Clery Report also includes geographical breakdown, expanded definition of campus, reporting of hate-crimes and a public crime log. TSTC’s Annual Clery Report is available online.

Information provided by the state of Texas concerning registered sex offenders may be obtained through the Department of Public Safety's website. Additional information about college safety or information relating to state or federally mandated public information requirements can be found on TSTC's safety and security website.

02. Campus Carry

Texas State Technical College (TSTC) takes the issue of guns on campus very seriously. The safety and security of our students, employees and visitors is a top priority. In accordance with Texas Penal Code Section 46.03, the possession of any weapon is prohibited on the physical premises of TSTC except for a person licensed to carry under Subchapter H, Chapter 411, Government Code, who is carrying a concealed handgun in an area not designated as prohibited. TSTC is in compliance with SB11 of the 84th Texas Legislative session under the policies established by TSTC regarding the carrying of concealed handguns with a permit.

03. Racial Profiling Policy

It is the policy of the TSTC Police Department to police in a proactive manner and to aggressively investigate suspected violations of law. Police officers shall actively enforce state and federal laws in a responsible and professional manner, without regard to race, ethnicity or national origin. The right of all persons to be treated equally and to be free from unreasonable searches and seizures must be respected. Police officers are strictly prohibited from engaging in racial profiling as defined in this policy. Racial profiling is an unacceptable patrol tactic and will not be condoned. This policy shall be applicable to all persons, whether drivers, passengers or pedestrians.

The prohibition against racial profiling does not preclude the use of race, ethnicity or national origin as factors in a detention decision. Race, ethnicity or national origin may be legitimate factors in a detention decision when used as part of an actual description of a specific suspect for whom an officer is searching. Detaining an individual and conducting an inquiry into that person’s activities simply because of that individual’s race, ethnicity or national origin is racial profiling.

Examples of racial profiling include, but are not limited to, the following:

- Citing a driver who is speeding in a stream of traffic where most other drivers are speeding, solely because of the cited driver's race, ethnicity or national origin.
- Detaining the driver of a vehicle based on the determination that a person of that race, ethnicity or national origin is unlikely to own or possess that specific make or model of vehicle.
- Detaining an individual based upon the determination that a person of that race, ethnicity or national origin does not belong in a specific part of town or place.

The TSTC Police Department holds two basic principles based on the adoption of this definition of racial profiling: Police may not use racial or ethnic stereotypes as factors in selecting whom to stop and search, while police may use race in conjunction with other known factors of the suspect.

Racial profiling is not relevant as it pertains to witnesses, etc. Students who have questions or complaints about TSTC Police Department's racial profiling policies or procedures may call the local campus office.

Waco | North Texas | East Williamson County

Lieutenant Gary Moseley

1101 Airline Drive

Waco, TX 76705

254-867-3690 (office)

254-867-3410 (fax)

gary.moseley@tstc.edu

Harlingen | Fort Bend County | Marshall | Sweetwater | Abilene | Brownwood | Breckenridge

Lieutenant Eduardo Becerra

2201 Airport Dr.

Harlingen, TX 78550

956-364-4220 (office)

956-364-5171 (fax)

eduardo.becerra@tstc.edu

04. Parking & Transportation

Parking Permits

On-campus parking permits will not be required this academic school year. Student housing permits are available at the Student Housing Office.

Vehicle and Parking on Campus

Texas State Technical College (TSTC) assumes no responsibility for any vehicle or its content while the vehicle is parked or operated on College property.

Students are to follow all federal, state and campus statutes pertaining to the operation or parking of any and all vehicles. Any damage caused by any unauthorized activities will be charged to the offender's account. No repair work of any kind is to be done in any parking or common area. No vehicle may be left on jacks, logs, blocks, etc. Inoperable vehicles are not allowed on campus.

All vehicles are required to be in legal, operable condition to be parked on campus. Vehicles must have proper license, registration and parking permits (if applicable) while the vehicle is parked or operated on College property.

Parking on the grass, sidewalks, in front of trash dumpsters or any area marked restricted is prohibited. Those in violation

will be towed at the owner’s expense.

Eighteen-wheelers, trailers of any type, boats, recreational vehicles and all motorized off-road vehicles are prohibited on campus.

Any vehicle found in violation of these restrictions may be subject to a ticket, wheel lock or towing at the owner’s expense.

Operating any type of vehicle on campus is regulated by TSTC's police department and requires your cooperation with all guidelines and safe-driving practices. As a TSTC student or employee, it is your responsibility to be familiar with these regulations and abide by them at all times. Read over the regulations carefully so you will avoid traffic and parking violations during your stay on campus. Additional information about parking and traffic rules and regulations can be found at tstc.edu/student-life/safety-and-security.

05. Making a False Alarm or Report

A person commits an offense under Section 42.06, Texas Penal Code, if he or she knowingly initiates, communicates or circulates a report of a present, past or future bombing, fire, offense or other emergency that he or she knows is false or baseless and that would ordinarily: (1) cause action by an official or volunteer agency organized to deal with emergencies; (2) place a person in fear of imminent serious bodily injury; or (3) prevent or interrupt the occupation of a building, room, place of assembly, place to which the public has access, or aircraft, automobile or other mode of conveyance.

The offense under Section 42.06, Texas Penal Code, of making such a false alarm or report involving a public or private institution of higher education is a state jail felony.

06. Lost and Found

Lost and found items are turned over to the College Police Department or designated office, which make every effort to return the items to the owner.

Provisions will be made for lost and found property to be reclaimed at the College Police Department, the Security Department or designated office for each campus from 8 a.m. to 5 p.m., Monday through Friday.

Proper identification, such as a Texas driver’s license, must be provided and the property must be sufficiently identified to be reclaimed.

If an owner cannot be located, all abandoned or found property will be held for 30 days. After 30 days, unclaimed property will be disposed of in accordance with the Texas Code of Criminal Procedure Article 18.17.

Abilene

Associate Provost

325- 734-3632

Breckenridge

Associate Provost

254-559-7707

Brownwood

Associate Provost

325-641-3911

East 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

Riding bicycles, roller skates, in-line skates, scooters, hoverboards, Swagways, Segways, IO Hawks, Skywalkers or other similar self-balancing boards/scooters, skateboards and similar coasting devices will be allowed as long as all safety precautions are taken. All transport devices must be operated in a safe manner that prevents or mitigates personal injuries and promotes active transportation on college property. They may not be utilized in buildings or left in hallways, staircases, classrooms, lounges or where otherwise prohibited by a campus rule, regulation or signage. Use of any of these items in a manner that damages property or endangers or inconveniences vehicles or pedestrians is prohibited.

08. Health Regulations

Communicable Diseases

“Communicable disease means an illness that occurs through the transmission of infectious agent toxic products from a reservoir to a susceptible host,” according to the Texas Health and Safety Code, Sec. 81.003. Communicable diseases include, but are not limited to, measles, influenza, viral hepatitis-A (infectious hepatitis), viral hepatitis-B (serum hepatitis), human immunodeficiency virus (HIV), AIDS (acquired immune deficiency syndrome), AIDS-related complex (ARC), HIV infection (human immunodeficiency virus infection), meningitis, meningococcal infections and tuberculosis. The term “HIV infection” shall include AIDS, AIDS-related complex (ARC), and a positive test for the antibody to human immunodeficiency virus. HIV is the virus that causes AIDS (a result of HIV infection).

Texas State Technical College (TSTC) recognizes that communicable diseases are a serious threat to public health. In the

event of a communicable disease, TSTC works with notifying a health agency and in compliance with Texas Department and Health Services and county health department recommendations, and regulations for an educated response to issues concerning communicable diseases. Individuals with HIV or hepatitis will not be discriminated against in admission to academic programs, health care or access to facilities. Students with HIV or hepatitis may attend any function or event if they are physically capable and do not pose health risks to others.

Confidentiality

All information regarding the medical status of students is confidential and may not be released without the individual's consent, except otherwise provided by law.

Medical Judgment

Any decision that TSTC makes concerning a person who has a communicable disease shall be based on current and well-informed medical judgment, which includes the nature of the disease, risk of transmission to others, symptoms and special circumstances of the person. The decision that a person poses a threat will be based solely on knowledge of the duration of the risk; nature and severity of the potential harm; likelihood the potential harm will occur; and imminence of the potential harm.

Bacterial Meningitis Notification

State law (Texas Education Code section 51.9192) states that all students attending an institution of higher education are required to provide proof of a current bacterial meningitis vaccination.

Bacterial meningitis is a serious, potentially deadly disease that can progress extremely fast. It is an inflammation of the membranes that surround the brain and spinal cord and can infect the blood. The disease can be treated, but those who survive may develop severe health problems and severe disabilities.

Vaccinations that are effective against 70% of the most common types of bacterial meningitis are available and required by those living in close quarters and by college students ages 21 or younger (22 and older are exempt). For more information, please contact your health care provider, the Texas Department of State Health Services or the Centers for Disease Control and Prevention.

09. Campus Assessment, Response and Education (CARE) Team

The TSTC CARE (Campus Assessment, Response and Education) Team strives to promote campus safety and student success throughout the TSTC community. The CARE Team meets on a weekly basis to ensure that students are connected to the resources they need and that appropriate steps are taken to keep all TSTC campuses safe. Any concerns about a student should be reported to the CARE Team, whether it be a mental health concern, safety concern, behavioral concern or anything that may involve a student’s well-being.

To submit a CARE Team report, fill out the form at https://cm.maxient.com/reportingform.php?TexasStateTC&layout_id=10. This form is located on the TSTC Portal homepage by clicking on the Maxient icon.

In case of an emergency, call 911, your campus or local police/security department for immediate assistance. A CARE Team report can be filled out after immediate needs have been addressed.

Abilene

325-235-7400

Breckenridge

325-235-7400

Brownwood

325-235-7400

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 Security Department
903-923-3351

New Braunfels

956-364-4220

North Texas
254-867-3690

Waco

TSTC Police Department

254-867-3690

East Williamson County
254-867-3690

10. Pets on Campus

Texas State Technical College (TSTC) 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 and cleanliness. Pets are not allowed in college buildings, including offices, as well as residential, recreational and academic buildings. TSTC permits service and approved emotional support animals for people with disabilities to receive the benefit of the tasks these animals provide or the therapeutic support they offer in accordance with the requirements of federal law. See the Access and Learning Accommodations section for more details.

For more information, contact Access and Learning Accommodations (adarequest@tstc.edu) or the Housing Office.

13. Student Rights and Responsibilities

01. Student Rights and Responsibilities

As members of the college community, TSTC Students are entitled to certain rights associated with attending an institution of higher education. These rights are published online and found in SOS ES 3.23 Student Rights and Responsibilities.

Statement of TSTC Student Rights and Responsibilities

1. The right to freedom from discrimination on the basis of race, color, religion, gender, age, national origin, genetic information, sexual orientation, disability, veteran status or any other class that may be specified by laws or the United States Constitution.
2. The right to develop one's individual potential.
3. The right to expect a quality education.
4. The right to pursue an education without undue interference.
5. The right to be free from hazing, threats, stalking, violence and other harassing actions.
6. The right to petition the appropriate college unit or body for redress of grievances in accordance with college procedures.
7. The right to confidentiality of official records, transcripts, disciplinary records and other educational records consistent with the Family Educational Rights & Privacy Act (FERPA) of 1974 (Buckley Amendment).
8. The right to communicate with administrators, faculty and staff through appropriate processes.
9. The right to publish and distribute information through the appropriate forums subject to the standards of reasonable journalism and applicable regulations/statements of the United States Constitution, the Federal Communications Commission, and the college.
10. The right, in accordance with the law and with college procedures, to freedom of speech and assembly which are subject to the college's requirements for the maintenance and order and the protection of rights and privileges of other members in the college's community.
11. The right and opportunity to participate in the formulation of procedures directly affecting students through membership or appointment to appropriate committees as determined by the college, student leadership organizations, and other recognized groups within the college.
12. The right of access to designated college facilities through student organizations that are recognized/approved by the college for business meetings, special meetings, and programs open to the public in accordance with college procedures.

02. Academic Student Responsibilities

1. **Academic Freedom** - Students and all other members of the College's community are guaranteed the rights freely to study, discuss, investigate, teach, conduct research and publish as appropriate to their respective roles and responsibilities. In the classroom and in conference, students have the right within the scope of the course of study to state divergent opinions, challenge ideas and take reasoned exception to the data or the views offered.
   Responsibility - Students and faculty share the responsibility to protect and to preserve conditions that are conducive to the learning process including withholding judgment on matters of opinion, ensuring a fair hearing for divergent viewpoints and observing rules of courtesy in the classroom.

2. **Academic Standards** - Students have the right to know the standards of academic performance established for each course in which they are enrolled.
   Responsibility - Students are responsible for seeking clarification of any standard in question at the beginning of the term, for preparing assignments in advance of each class session and for learning the content of any course of study for which they are enrolled. Rules applying to academic dishonesty must be followed, including those related to plagiarism and cheating.

3. **Academic Evaluation** - Students have the right to be evaluated solely on an academic basis, without regard to issues of diversity, opinions or conduct in matters unrelated to academic standards. Students have the right to review tests and other written works after the instructor has evaluated them and are accorded protection through the Student Grievance Procedure against prejudiced or capricious academic evaluation.
   Responsibility - Students are responsible for bringing academic grievances to the attention of the instructor who performed the evaluation in an effort to resolve the issue. If the matter cannot be settled at this level, the grievance may be appealed in writing as outlined in the Student Grievance Procedure.

4. **Confidentiality** - Except when disclosure may be required by state or federal law, students have the right to confidentiality of information about views, beliefs and political associations shared privately with instructors, advisers or academic counselors. Judgment of a student's ability and character may be provided under appropriate circumstances, normally with the knowledge and consent of the student.
   Responsibility - Students have the responsibility to state clearly what type of personal information should not be disclosed to others.

5. **Academic Environment** - Students have the right to pursue an education without disruption or interference and to expect enforcement of norms for acceptable classroom behavior that prevents disruption of the teaching/learning process.
   Responsibility - Students may not disrupt class or any other collegiate process by any means whatsoever (including sideline conversations, comments, arguments, intentional noisiness or other activity which would hinder access to or utilization of academic information).

6. **Non-Discrimination** - Students have the right to learn in an environment where diversity is respected.
   Responsibility - Students are responsible for respecting diversity and for behaving courteously to faculty members and to other students in the classroom regardless of difference in 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 that would be in violation of any applicable federal, state or local law.

7. **Intellectual Property** - Students have the right to expect that presentation of material in a class will be in compliance with copyright law and that their own creative work will not be disseminated or published without their permission.
   Responsibility - Students who receive written notification from a faculty member that the information provided in his or her course is the faculty member's intellectual property shall not distribute, use for commercial purpose or create derivative works of the intellectual property without obtaining the express permission of the faculty member. Students shall not assume permission absent written notification from a faculty member. Students shall also respect and treat in similar manner the intellectual property of other students.

03. Title IX

Prohibiting Sexual Misconduct and Gender-based Discrimination

To ensure and maintain a workplace and an educational environment free of, and protected from, sexual misconduct and discrimination based on gender. Texas State Technical College (TSTC) does not tolerate and expressly prohibits sexual misconduct which includes, but is not limited to: sexual harassment, sexual assault, and/or sexual exploitation, stalking, dating and domestic violence. No person on the basis of sex, will be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity.

This practice applies to all members of the TSTC organization, including all employees, students and 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. Respondents are subject to disciplinary action, including possible suspension/expulsion from the College or separation of employment if found to be responsible.

Pertinent Information

Title IX of the Education Amendments of 1972 protects people 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.”

Definitions

Bullying: Repeated and/or aggressive physical or mental behavior that is intimidating or controlling.

Complainant: Individual making the complaint of sexual misconduct or gender discrimination.

Consent: Agreement to engage in sexual conduct or activity explicitly verbalized (saying “yes”) or given by active, willing participation by all parties involved.

Sexual consent cannot be given by anyone who is underage, who is under the influence of alcohol or drugs, or who is otherwise mentally impaired or incapable of giving knowledgeable, informed consent.

Cyber Bullying: Repeated and/or aggressive written, graphic or verbal harassment that is transmitted through any electronic/digital device.

Domestic Violence: Violent or aggressive behavior within the home, typically involving the violent abuse of a spouse or partner.

Education Program or Activity: Any location, event, or circumstance over which the recipient exercises substantial control over both the respondent and the context in which the sexual harassment occurs.

Gender Discrimination: Discrimination based on sex, including discrimination based on pregnancy, childbirth, false pregnancy, termination of pregnancy or recovery from any of these conditions. The federal Title IX regulation also prohibits a school from applying any rule related to a student’s parental, family or marital status that treats students differently based on their sex.

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: Lacking the ability or capacity to have a reasonable understanding of the situation one is in due to lack of sleep, disability, involuntary physical constraint or consumption of alcohol or drugs.

Informal Resolution: An alternative to the grievance process that may be offered and facilitated by the College following the filing of a formal complaint and upon the voluntary, written consent of the parties.

Preponderance of the Evidence: The majority of the evidence which would cause a reasonable person to draw a conclusion.

Respondent: Individual against whom the complaint of sexual misconduct or gender discrimination is made.

Retaliation: An adverse action taken to try to keep someone from opposing a discriminatory practice.

Sexual Misconduct:

A. Sexual Harassment – includes unwelcomed gender based verbal or physical conduct that sufficiently severe, persistent and pervasive. It has the effect of unreasonably interfering with, and/or denying or limiting someone's ability to participate in or benefit from the College's educational program and/or activities (hostile environment). It is based on power differentials (quid pro quo - "this for that") and can be the creation of a hostile environment and/or that of retaliation.
B. Nonconsensual Sexual Contact (or Attempts) – intentional sexual touching, however slight, with an object and/or body part(s) by an individual towards another individual that is without consent or done so forcefully.
C. Nonconsensual Intercourse (or Attempts) – any form of sexual intercourse (vaginal, oral or anal) regardless of how slight the penetration without consent. Also referred to as a sexual assault/rape.
D. Sexual Exploitation – obtaining a personal gain for one's self or for another by taking advantage of an individual in a sexual nature. Examples include, but are not limited to: invasion of sexual privacy, prostituting another person, nonconsensual video or audio taping of sexual activity, going beyond the boundaries of consent, engaging in voyeurism, knowingly transmitting a STD or HIV to another person, exposing one's genitals in nonconsensual circumstances or inducing another to expose their genitals, and sexually based stalking and/or bullying.
E. Acquaintance Rape – nonconsensual sexual intercourse (rape/sexual assault) by someone known to the complainant.
F. Sexual Violence – act penetrated against someone's will. Includes same sex violence/incidents.
G. Sexual Abuse – sexual interaction between an adult and a minor, including sexual intercourse, touching or contact.

Stalking: Repetitive behavior that involves calling, texting, emailing, following, and/or otherwise communicating with an unwilling individual and which interferes with the peace of the individual and/or the individual's community. It is behavior that is directed toward a specific individual or individuals that would cause a reasonable person to fear for his/her own or another's safety and/or causes one to experience substantial emotional distress.

Supportive Measures: Non-disciplinary, non-punitive individualized services offered as appropriate, as reasonably available, and without fee or charge to the Complainant or the Respondent before or after the filing of a Formal Complaint or where no Formal Complaint has been filed.

Complaints Involving Sexual Assault

TSTC recommends that victims of sexual assault report the offense immediately to TSTC Police Department/Security/Local Agency. Evidence of the assault should be preserved whenever possible. The victim should not bathe or shower and should not throw away or wash the clothes worn at the time of the assault. The victim will at all times be offered campus assistance in the reporting process and will, to the extent permitted by law, be offered anonymity, if requested. Please see the section on "confidentiality" below to ensure complete anonymity.

Procedures For Complaints Made By Students

Students who believe they have been subjected to sexual misconduct or gender discrimination shall report to and consult with the designated Student Title IX Coordinator/Representative (available through any Student Rights and Responsibilities office).

Any employee, including Resident/Community Assistants (RA/CAs), who has received a report or complaint from a student relating to sexual misconduct or gender discrimination shall immediately notify and refer that student to the designated Student Title IX Coordinator/Representative and submit a report utilizing the Sexual Misconduct and Gender Based Discrimination form.

A. The complaint may be oral or in writing, utilizing the Sexual Misconduct and Gender Based Discrimination form. After receiving the complaint/report, the designated Student Title IX Coordinator/Representative shall initiate a thorough, prompt and equitable inquiry. Immediate interim measures may be considered, if determined necessary. These may include Emergency Removal; *the college can act to remove a student Respondent entirely or partially from its education program or activities on an emergency basis when an individualized safety and risk analysis has determined 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 in conjunction with the CARE Team using its standard objective violence risk assessment procedures*, no contact orders or removal/change from campus housing. When issued, the involved parties shall be expected to adhere to the terms of the interim actions. Violations of interim measures shall not be tolerated and shall be addressed immediately. Students who violate such measures shall be subjected to further disciplinary action up to and including suspension and expulsion.
B. The Representative shall follow the procedures outlined in the TSTC Code of Conduct under “Disciplinary Procedures.” The only exception shall be the formal review process for both parties, which shall follow the steps outlined below under “Formal Review Process.” If the respondent is found responsible of the accusations, then the proper sanctions shall be imposed or mediation shall take place when it is acceptable to both parties. In incidents of sexual violence, mediation shall never be acceptable. If the complainant is found to have made a false accusation, then disciplinary sanctions may be imposed.
C. If the complaint involves actions of an employee at TSTC, the Representative shall immediately notify the designated Employee Title IX Coordinator/Representative, who shall initiate the employee investigation in accordance with the steps outlined in Operating Requirements No. 2 as noted in HR 2.4.15 Prohibiting Sexual Misconduct and Gender Based Discrimination.
D. In all cases, a prompt, fair and impartial process and resolution shall be afforded.
E. The Representative will report to the Title IX Coordinator for reporting purposes the date of the alleged misconduct, type of alleged misconduct, result of investigation, actions taken, if there was a formal review, results, and any other pertinent information. The complete investigation documentation shall be kept in the student’s disciplinary records for the duration of the records retention length.

Formal Complaint Process (for students only)

A request for a formal compliant process may be submitted in writing to the appropriate Title IX Coordinator/Representative by either the reporting party. The Title IX Coordinator shall arrange the Review Board (three TSTC employees) for a live hearing after the representative has conducted the necessary interviews. Mandatory Dismissal- The college shall dismiss a Formal Complaint if: the allegation does not describe conduct that would constitute Title IX Sexual Misconduct; the Title IX Sexual Misconduct did not occur in the College’s Education Program or Activity; or the Title IX Sexual Misconduct did not occur against a person in the United States.

A. The College shall convene the Review Board in a timely manner, usually within five business days, but in certain situations it may be longer. Both parties shall be notified in advance of the date, time and location of the review and the panelists. Both parties shall be afforded an opportunity to object to any member of the Review Board. This assures that the Title IX requirement to afford both parties a fair, impartial and objective review by unbiased decision makers.
B. Communication with both parties shall continue during this process. Within two business days prior to the date of the review, a list of witnesses and all documentation must be submitted to the Title IX Coordinator by both parties. The objective of the Review Board shall be to assess the investigation details collected and determine preponderance of evidence, as well as recommendations for sanctions.
C. Because these proceedings are not designed to be a legal or judicial hearing, the Review Board operates on the basis of “Preponderance of the Evidence.” The decision shall be made by majority vote.
D. Both parties will have the right to an assigned advisor. If a student brings an attorney for the review, he/she must provide sufficient notice (at least two business days) for TSTC to have an attorney present as well. Either attorney shall only serve in an advisory role and shall not be permitted to ask questions, present evidence or make arguments before the Review Board. The presence of an attorney may cause a delay in the process. If an attorney refuses to follow these requirements, the Review Board may remove him or her.
E. All reviews shall be closed.

Retaliation

Any form of retaliation by either party will not be condoned by the College and the College will take immediate action to rectify the situation and additional disciplinary action may occur, including separation from the College. Retaliation includes, but is not limited to: intimidation, discrimination, coerce or threats to either party.

Confidentiality

Privacy of individuals and confidentiality of information given will be maintained to the extent permitted by law throughout all phases of these procedures. TSTC strongly supports a complainant's interest in confidentiality in cases involving sexual misconduct. The College will try to honor this request except when the safety of the campus community is at risk or if it may create a nondiscriminatory environment for others. All employees, this includes Resident/Community Assistants (RA/CAs), are considered responsible employees and have the duty to report sexual misconduct to the proper Title IX Coordinator/Representative via the Maxient reporting system. The report must include the name of the person disclosing the sexual misconduct, the alleged perpetrator and all relevant facts regarding the incident, including date, time and location. In cases involving minors, state mandatory laws may require disclosure. Steps to ensure the complainant's protection will be taken.

Texas State Technical College will provide written notification to students and employees of dating violence, domestic violence, sexual assault/misconduct or stalking (whether the offense occurred on or off campus) of their rights and options.

Rights of the Complainant and Respondent

The college is committed to providing accessible, prompt, thorough and fair methods of investigation and resolution of incidents reported under this Policy to all college students. To this end, both the Complainant and Respondent are entitled to the following rights throughout the investigation and review processes.

1. To be treated with dignity by all persons involved in the investigation and disciplinary process.
2. To a prompt and thorough investigation of the allegations.
3. To a fair hearing.
4. To equal access to information, evidence and college resources, including information pertaining to counseling services.
5. To the necessary policies.
6. To participate or to decline to participate in the investigation or review process.
7. To have an advisor of their choosing present at all meetings and reviews.
8. To written notice of all meetings and formal reviews, including the time and place. Proper written notification shall be defined as delivery of mail to a student's email message sent to the email account established as his or her official email. Students shall be held responsible for the contents of mail sent to reported e-mail messages sent to their established email accounts. Students have the responsibility for providing the college with current email addresses and phone numbers.
9. To present information and/or witnesses on their behalf during the investigation and review process. The relevancy of witnesses shall be determined by the Title IX Coordinator or their designee during the investigation phase, and by the Title IX Review Board Chair for the formal review.
10. To choose not to present information against themselves. Students do not have to speak at any meeting, conference or hearing and no negative inference will be made should a student choose not to speak.
11. To hear and respond to all information presented against them.
12. To one (1) 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.
13. To adequate time to review the investigation report and any evidence that will be presented to the Title IX Review Board.
14. To notice of the charges (including what prohibited conduct is at issue) that will be presented to the Title IX Review Board and reasonable notice of the date and time of the formal review.
15. To have any unrelated past behavior excluded from the investigation and disciplinary process, as determined by the Title IX Coordinator.
16. To submit written materials to the Title IX Review Board relevant to the report, which may include a written impact statement by the Complainant and a statement of mitigating factors by the Respondent.
17. To be free from intimidation, harassment, bullying or any other form of retaliation throughout the investigation and disciplinary process.
18. To written notification of the results of the Review Board or other case resolution, including any sanctions imposed.
19. To be informed of their right to appeal and of the process for doing so.
20. To written notification of the outcome of the Review Board's finding related to preponderance of evidence and sanctions imposed, if applicable.
21. To privacy throughout the investigation and disciplinary process with respect to campus and other media, and from all other uninvolved parties.
22. To an opportunity to challenge the investigator(s), Title IX Coordinator, Title IX Review Board or any other staff or administrator involved in the investigation, hearing or appeal process for a possible conflict of interest.
23. To understand that information collected in the process may be subpoenaed in criminal or civil proceedings.
24. To have reasonable steps taken to prevent any unnecessary or unwanted contact with the other party(ies) during the investigation and hearing process. Additionally, the Complainant has the right to report the incident.

Request for Review of Title IX Review Board Decision

Both parties will have the right to request a review of the Title IX Review Boards decision on responsibility determination and any dismissal of a formal complaint or allegations therein to be presented to the Student Deputy Title IX Coordinator for determination.

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 the individual complainant or respondent, that affect the outcome of the matter; and/or
4. The sanction is disproportionate with the violations.

Review request should be submitted in writing to the Title IX Coordinator/Representative within three business from the decision rendered.

Reduce the Risk of Being Sexually Assaulted

1. Know your sexual intentions and limits. You have the right to say “NO” to any unwanted sexual contact. If you are uncertain of what you want, ask your partner to respect your feelings.
2. Communicate with your partner. Do not assume that someone will automatically know how you feel or will eventually “get the message” without you having to say anything. Just as it's okay to say “NO” to unwanted activities, it’s okay - and important - to give clear consent to activities you would like to engage in. Avoid giving “mixed messages;” back up your words with a firm voice and clear body language (e.g., if you consent, you can verbalize with "yes" or by your active participation).
3. Remember that some people think that drinking, dressing provocatively or going to your or someone else’s room is saying you are willing to have sex. Be clear upfront about your limits in such situations.
4. Listen to your gut feelings. If you feel uncomfortable or think you might be at risk, leave the situation immediately and go to a safe place.
5. If you feel you are being pressured or coerced into sexual activity, you have a right to state your feelings and/or leave the situation. If you are concerned about the other person becoming angry, it is okay to make up an excuse to leave or create time to get help.
6. Attend large parties with friends you trust. Agree to “look out” for one another. Leave with the group, not alone. Avoid leaving with people that you don’t know very well.

Texas State Technical College will provide written notification to students and employees regarding community-related services, victim advocacy, legal assistance, visa and immigration assistance, student financial aid and other services available for victims, both within the institution and in the community. In addition, the Title IX Coordinator/Representative will provide written notification to victims about options for, and available assistance in, changing academic, living, transportation and working situations along with information on protective measures. This information will be provided regardless of whether the victim chooses to report the crime to campus police or local law enforcement. This request can be made to the Title IX Coordinator/Representative.

To report an incident of Sexual Misconduct or Gender-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

Nicholas Brannan

Student Development Specialist

ntbrannan@tstc.edu

903-923-3245

Ronald Lopez

Student Development Specialist

ronald.lopez@tstc.edu

254-867-3925

Employee Title IX Representatives:

Cara Noyes

Sr. Human Resources Business Partner

cara.noyes@tstc.edu

254-867-4818

Julie Gonzalez

Sr. Human Resources Business Partner

julie.gonzalez@tstc.edu

956.364.4043

Student Title IX Deputy Coordinator
Adele Clinton

adele.clinton@tstc.edu

956-364-4302

Employee Title IX Deputy Coordinator

Amanda Oswalt

Sr. Human Resources Business Partner

amanda.oswalt@tstc.edu

254-867-4825

Title IX Coordinator for Students, Employees and Visitors
Edda Urrea
Sr. Executive 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

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

East Williamson County

East Williamson County Higher Education Center

1600 Innovation Blvd (CR 108)

Hutto, TX 78634

512-759-5907

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

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)

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: 956-873-2677

Weekends: 956-873-267

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.

Brownsville, Texas 78521

956-544-7412

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

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

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.0. 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

http://tx-elliscounty.civicplus.com/BusinessDirectoryII.aspx?lngBusinessCategoryID=22&PREVIEW=YES

Waco

TSTC Police

3801 Campus Drive

Waco, TX 76705

254-867-3690

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
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

Hendrick Health
325-670-2000
hendrickhealth.org

Regional Victim Crisis Center (24 hrs)
325-677-7895
http://regionalvictimcrisiscenter.org

Noah Project, Family Violence (24 hrs)
325-676-7107
http://noahproject.org

MHMR – Betty Hardwick Center (24 hrs)

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

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

Sweetwater Local 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

Bystander Intervention

Bystander Intervention is a philosophy and strategy for prevention of various types of violence, including bullying, sexual harassment, sexual assault and intimate partner violence. Simply put, it's when someone interrupts a potentially harmful situation. That includes stopping actions or comments that promote sexual violence.

TSTC encourages members of our community to speak up and say something if they see a potentially harmful situation.

Five Steps to Accountability

1. Notice the event.
2. Recognize it as a risky situation.
3. Take responsibility for helping in the situation.
4. Have the skills necessary to intervene.
5. Take Action!

Intervening in Any Situation

- Gather details about the situation.
- Ask for help from other bystanders or friends.
- Be sensitive and understanding.
- Intervene early and in a safe manner.
- Consider multiple options.
- Don’t be afraid to call for help! Resident Assistants (RA)/Community Assistants (CA), TSTC Police, local police at

911.

Nonemergency Intervention

- Don’t make assumptions about the people involved or the situation.
- Keep your eyes open for red flags.
- Set a goal or a plan.
- In conversations, keep in mind that it is about mutual respect.

Emergency Intervention

- Try to keep everyone calm.
- Know your exit strategies.
- Understand that situations can escalate quickly.
- Be clear and concise when asking for help.
- Keep yourself and others safe.
- Tell whoever isinvolved that you are committed to helping them.
- Encourage value-based decisions.

National Bystander Intervention Resources

A CALL TO MEN

www.acalltomen.org

hollaback!

www.ihollaback.org

Take Action

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

East Williamson County

Texas RioGrande Legal Aid

4920 N. I-35

Austin, Texas 78751

512-374-2700

800-369-9270

www.trla.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 RioGrande Legal Aid, Inc.

308 East Harrison Ave.

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

Student Financial Aid Assistance:

Jackie Adler, Executive Director of Financial Aid

254-867-3620

jackie.adler@tstc.edu

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

It is the practice of Texas State Technical College to encourage fair and efficient solutions for problems arising out of the student/college relationship. As responsible members of the college community, students and organizations/clubs are expected to maintain the highest level of academic and social conduct and are responsible for knowing TSTC's policies and standards. The Code of Student Conduct (the code) is reviewed every academic year, but it is a living document that can be modified to comply with federal, state or local law.

Definitions

Board of Regents – governing body of TSTC, appointed by the governor of Texas.

Code of Student Conduct (the code) – standards of conduct and procedures established to provide a full and fair opportunity for review of alleged misconduct.

College – Texas State Technical College.

College Premises – all buildings, facilities, land and other property that is owned, used, leased or controlled by the college.

Complaint – a statement of the essential facts constituting a violation of the code or policy of the college.

Conduct Officer – college official authorized to investigate alleged violations of the code and to administer the procedures and sanctions of the code.

Disciplinary Conference (Conference) – an informal conversation with the student to review the alleged violation(s) and give them an opportunity to respond directly and present relevant information, including witnesses, documents, etc.

Drug Paraphernalia – any equipment, product or material that is used for making, using or concealing drugs, regardless of that item's intended use at the time of its production.

Established Student Relationship – from the time of application for admissions to the college through an award of degree, which will include breaks of enrollment if the student continues to have an association with the college.

Notice of Complaint – the initial document that identifies alleged misconduct in violation of the code.

Review – a request made by a student who disagrees with the conduct officer's decision or sanction and requests that the Statewide Review Board evaluate the decision.

Review Administrator – chair/individual assigned to collect, schedule and be a liaison for the review process.

Preponderance of Evidence – the majority of the evidence would cause a reasonable person to support a conclusion (it is more likely than not it happened, 51% rule).

Residential Facilities – any facility operated by the college or under agreement by an outside agency, with sole purpose of providing housing for students.

Student – an individual who has established a relationship with the college for the purpose of taking a course or courses.

Statewide Review Board (Committee) – a group convened at the request of a student or student group to evaluate the conduct officer's decision or sanction placed on an individual.

Working Day – Monday through Friday, except for official college holidays or college closings.

Application

- The code shall provide an educational and non-adversarial process designed to resolve matters concerning student conduct. It is not designed to be a legal or judicial process.
- The code is designed to be reliable, fair and effective.
- Individuals who have established a student relationship with the college are subject to the code.
- The code shall apply to all aspects of campus life, including those in the classroom, on college property, in residential facilities and at an off-campus sponsored activity. It may also apply to conduct that occurs off-campus.
- The code shall operate by preponderance of evidence. (The majority of the evidence would cause a reasonable person to support a conclusion.)
- Disciplinary records shall be maintained by the conduct officer or designee of the local campus in accordance with the college's records and retention policy.
- The college's disciplinary process shall proceed during the pendency of any related criminal or civil proceedings and shall not be subject to reconsideration even if related charges are dismissed or otherwise resolved.
- Student clubs/organizations shall be expected to conduct themselves in a manner consistent with the college's function as an educational institution. Student clubs/organizations must observe all international, federal, state or local laws, as well as the college's policies, including the code, both on-campus and off-campus.

Prohibited Conduct

The Conduct Officer may initiate disciplinary proceedings against a student for violations of the code. Specific examples of prohibited conduct subject to disciplinary action include, but are not limited to, the following:

A. Acts Violating Statewide Operating Standards (SOS), and College Policies.
B. Acts of Dishonesty
    1. Intentionally furnishing false or misleading information to the college or a college official.
    2. Forging, altering, falsifying or misusing any college document or instrument of identification.
    3. Intentionally interfering with any election process.
C. Acts Affecting the College Community
    1. Engaging in disruptive behavior or activity, including, but not limited to, such acts defined in the Texas Education Code.
    2. Failure to comply with the reasonable directive(s) of a college employee, which includes resident/community assistants.
    3. Failure to heed an official summons within the designated time or failure to identify oneself to an institutional representative in response to a request.
    4. Violation of a rule or regulation relating to residence life policies, a breach of a housing contract/lease or motor vehicle regulations.
    5. Gambling in any form.
    6. Failure to fulfill financial or contractual obligation(s) to the college.
    7. Engaging in or use of obscene, lewd or vulgar language, behavior and display regardless of the medium.
    8. Violating the TSTC Pet Policy.
D. Acts Affecting Property or Service
    1. Theft or attempted theft of property or services.
    2. Possession of stolen or lost property.
    3. Destruction or damage to college property or the property of others.
    4. Unauthorized possession, duplication or use of access devices to college property or the property of others.
    5. Unauthorized entry onto or use of college or individual's premises, equipment or resources.
E. Acts Affecting Computing Resources or Technology
    1. Unauthorized access, use or misuse of college computing resources, systems or data.
    2. Disrupting college computer operations or the availability of computing resources.
    3. Using another individual's identification, password or other credentials.
    4. Unauthorized use or sharing of copyrighted materials through electronic means.
    5. Initiating or contributing to attacks against external networks or college systems.
    6. Use of college computers to access lewd, offensive or pornographic material.
    7. Transporting copies of college programs, records or data to another person or computer without written

authorization.

8. Using the college's computer resources for personal gain.

F. Acts Affecting Health, Safety or Welfare
   1. Engaging in physical or verbal abuse, domestic violence, threats, intimidation, harassment, bullying, coercion, physical/electronic stalking or any other conduct that threatens or endangers the health, safety or welfare of another person.
   2. Possession, use, sale or distribution of any quantity, whether usable or not, of an illicit drug (including synthetic), narcotic, controlled substance, illegal drug paraphernalia or equipment. This includes medication not prescribed to oneself.
   3. Public intoxication, use, possession or distribution of an alcoholic beverage(s).
   4. Being under the influence of alcohol, an illicit drug, narcotic, synthetic or controlled substance.
   5. Providing minors or any other individual intoxicating beverages in violation of any state, federal or local law.
   6. Hazing, as defined by the Texas Education Code, including engaging in, soliciting, encouraging, directing, aiding or voluntarily submitting in behavior that could cause physical, mental or emotional harm to another or is considered humiliating or degrading.
   7. Engaging in acts of gender discrimination, sexual misconduct, abuse, assault or harassment.
   8. Engaging in speech, either orally or in writing, that is directed to incite, produce lawless action or intimidate another.
   9. Possession or use of a dangerous weapon, defined as any instrument, device or object capable of inflicting physical harm. Examples of a dangerous weapon include unlicensed firearms, explosive, devices, dangerous chemicals, illegal length knives, fireworks, compressed air guns, pellet guns, stun or zip guns, tasers, BB guns, paintball guns, batons, nunchucks, etc.
   10. Misuse or tampering of fire or other life safety equipment or interfering with any college or public safety function.
   11. Reporting a false emergency or threat.
   12. Smoking inside campus buildings or designated nonsmoking areas. Smoking means the lighting or carrying of a lighted cigar, cigarette, pipe or similar device, including an e-cigarette.
   13. Engaging in acts which violate TSTC, Centers for Disease Control and Infection (CDC), and/or Occupational Safety and Health Administration (OSHA) safety and/or wellness guidelines.
   The Office of Student Rights and Responsibilities reserves the right to contact parents/guardians or identified responsible parties related to any student safety concern or serious student issue. Federal legislation allows a college to notify parents/guardians of student (who are under the age of 21, regardless of dependency) misconduct that results in the student being found responsible for violating the alcohol/drug policy on campus. Notification to parents/guardians is at the discretion of the conduct officer in the event he/she feels there is a concern to be conveyed to parents/guardians.

G. Acts Violating Law
   1. Engaging in conduct that constitutes a criminal offense under federal, state or local law whether convicted or not, and regardless of whether the incident happened on campus or off campus.
   2. Breaching the peace or abetting or inciting another to breach the peace.
   3. Disorderly conduct as defined by state law or any activity that includes, but may not be limited to, physical or verbal abuse, injury to another person, indecent displays or use of indecent language, nonconsensual acts of sexual contact/assault or disrespect for the rights and privileges of others.

H. Facilitating Acts of Misconduct
   1. Planning or facilitating an act of misconduct.
   2. Being present during the commission of an act of misconduct, supporting/encouraging the act or not reporting the act to the appropriate officials.

I. Acts interfering with the Disciplinary Process
   1. Failure to comply with a request to schedule and attend a conference with the conduct officer within a designated time.
   2. Failure to comply with sanction(s) imposed under the code or by the college.
   3. Falsifying or misrepresenting information at any stage of the disciplinary process.
   4. Knowingly initiating a false complaint to a college official.
   5. Attempting to discourage a person's participation in or use of the disciplinary process.
   6. Harassment, intimidation, coercion, bribery or retaliation against a college official or person involved in the disciplinary process.

J. Violations of Academic Integrity
   Includes, but is not limited to, cheating, plagiarism, collusion, falsifying academic records, any act designed to give unfair advantage to the student or any attempt to commit such an act.
   1. Cheating: Activity that includes, but is not limited to:
      a. Copying from another student's assignment, test or other academic work.
      b. Possessing material, such as class notes or textbooks, during a test that is not authorized by the instructor of record.
      c. Collaborating, without authority, or seeking aid from another student during an examination or assignment, or in preparing academic work.
      d. Using, buying, selling, stealing, transporting or soliciting, in whole or in part, the contents of an unadministered test, test key, homework solution or computer program.
      e. Substituting for another student or permitting another student to substitute for oneself to take a test or prepare other academic work.

f. Paying, offering money or other valuables to 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.
g. Falsifying laboratory reports and/or other academic work offered for credit.
h. Taking, keeping, misplacing or damaging property of the college, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct.
i. Willfully failing to comply with instructions given by a person administering a test.
j. Discussing, without express permission from the instructor of record, the contents of an examination with another student who will take the examination.
k. Divulging the contents of an examination for the purpose of preserving questions for use by another when the instructor has designated that the examination is not to be removed from the examination room or not to be returned to the student.
l. 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.

2. Collusion: 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.
3. Falsifying Academic Records: Activity that 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.
4. Plagiarism: Activity that includes, but is not limited to, the appropriation, buying, receiving as a gift or obtaining by any means another's work and the submission of another's work as one's own academic work offered for credit.

Disciplinary Procedures

The conduct officer or designee shall have primary authority and responsibility for administering student discipline. The Conduct Officer or designee shall assess all suspected and reported violations of the Code. Complaints regarding alleged misconduct must be submitted to the Student Rights and Responsibilities Office as soon as possible after the alleged violation.

After completing an initial inquiry, the Conduct Officer or designee may:

- Dismiss the allegations as unfounded.
- Summon the student for a conference.
- Dismiss, upon completion of the conference, the allegations or impose disciplinary sanctions.
- Impose immediate interim action if the continued presence of the student poses a danger or perceived threat to persons or property or a disruption of the academic process of the College.

Notice of Complaint

- The conduct officer or designee shall deliver a notice summarizing the alleged misconduct either by mail, hand delivery or electronic means. All students are responsible for maintaining a current physical mailing address with the College. If documents are sent electronically, the student's official TSTC email address shall be used.
- The conduct officer or designee shall give notification of a date by which the student has to complete the conference. If the conference is not completed by that date, the student automatically waives his/her right to a conference, and the Conduct Officer or designee shall make a decision based solely on the information at hand.

Notice of Disciplinary Findings

- If it is determined that the greater weight of evidence or preponderance of evidence indicates that a student engaged in a violation of the Code, then the Conduct Officer or designee shall deliver a Notice of Disciplinary Findings.
- The Notice of Disciplinary Findings shall include information regarding the Review process.
- This notice shall inform the student of the findings, any imposed sanctions or restrictions and the student's right to appeal, if applicable.

Sanctions for Misconduct

Admonition – Oral or written reprimand.

Discretionary sanctions – These include work assignments, service to the college, etc.

Disciplinary probation – Probation indicates that the student has engaged in unacceptable behavior and that a period of observation is needed to substantiate that behavior has improved. Additional conditions may be imposed during the probationary period, such as counseling, educational seminars/courses, etc. An additional violation may result in more severe action.

Withholding of grades, official transcript, certificate of completion, or degree.

Suspension of rights and privileges – This type of suspension includes, but is not limited to, participation in intramurals/recreation center, participation in extracurricular activities, election to office, restrictive building or area access, revocation of housing or visitation privileges, etc.

Administrative withdrawal from course(s).

Bar against readmission – This action is for a specific period of time and/or may involve the student's drop from current enrollment entirely or from enrollment in one or more courses.

Restitution – This action requires reimbursement for damages to property or for misappropriation of property. Restitution may be achieved either monetarily or by specific duties.

Failing grade or other academic penalty.

Denial of degree – A denial shall become part of the student’s permanent record.

Revocation of a degree, grade or certification – A revocation shall become part of the student’s permanent record.

Suspension – A suspension shall result in the student’s removal from the college for a specified period of time. A suspended student shall be administratively withdrawn from TSTC, prohibited from entering the college’s premises, and blocked from future registration until approval is granted by the Conduct Officer or his/her designee. Suspension shall become a part of the student’s permanent record and may be removed at the completion of the sanction, at the student’s request.

Expulsion – This action results in permanent removal from the college. An expelled student shall be administratively withdrawn from TSTC and prohibited from entering the college’s premises. Expulsion shall become part of the student’s permanent record.

Other penalties as seen fit by the appropriate administrator at the college.

Non-Academic Transcript Notation – In accordance with Texas state law under House Bill 449, postsecondary educational institutions are required to include on the student’s transcript, official or unofficial, a disciplinary notation stating that the student has been expelled.

Review Process

- Only sanctions that include restrictions, loss of privileges, withholding/revocation of grades or degrees, suspension or expulsion shall be reviewed by the Statewide Review Board. All Title IX cases will follow the Sexual Misconduct Policy and the policies and procedures of the Title IX Review Board.
- A student shall have three working days to request a review from the Review Administrator.
- The student shall be notified within five working days of the time, date and location of the review by the Review Administrator. Any delays due to



extenuating circumstances shall be documented, and all parties shall be notified accordingly.
- At least two working days prior to the hearing, a list of witnesses and documentation must be provided to the Review Administrator.
- The Conduct Officer or designee shall present the College's case followed by the student's presentation. Each party shall have the opportunity to present testimony and evidence in support of his position. The Statewide Review Board shall be allowed to question both parties and request additional information or clarification.
- Review procedures shall be confidential and closed to the public.

Statewide Review Board (Committee)

- The Committee shall consist of five (5) members of the campus community, to include a Chairperson who also serves as the Review Administrator, three (3) faculty/staff, and two (2) students. The Chairperson and the faculty and staff members shall be approved by the Executive Management Council. Designated students selected to serve on the Committee must be currently enrolled and must be in good disciplinary standing.
- The Chairperson shall direct proceedings of the review and participate fully in all reviews, to include voting.
- The objective of the Committee is to review the findings and sanctions originally imposed by the Conduct Officer or designee. The Committee may not impose more severe penalties.
- The decision shall be made by majority vote. All votes shall be recorded by secret ballot and tabulated by the Chairperson.
- The findings and conclusions of the Committee shall be final.
- The Chairperson will have three (3) working days to provide written results of the review to all involved.

General Rules for Reviews

- Reviews are informal proceedings, and traditional rules of the courtroom evidence shall not apply. However, the conduct officer or his/her designee must show preponderance of evidence and that the sanction imposed was reasonable based upon the circumstances.
- An advisor, attorney or support person for the student may be present for the review; however, the advisor, attorney or support person may not make statements, represent the accused or question witnesses.
- If an attorney accompanies a student for the review, the attorney shall not be permitted to present evidence before the Committee. The college reserves the right to counsel in the event it is deemed necessary. The time frame for scheduling a review may be extended if the college elects to retain counsel.

Academic Dishonesty Procedures

Procedures for discipline due to academic dishonesty will first be considered and reviewed by the instructor of record.

Notice of Complaint

- The instructor of record shall give advance written notice to the student to inform of the alleged violation and to request a meeting at a designated date, time and location. The instructor shall notify the student of the alleged violation and provide the student an opportunity for explanation.
- If the student chooses not to attend the meeting, the student automatically waives his/her right to a conference, and the faculty member will make a decision based solely on the information at hand.

Notice of Disciplinary Findings

- The instructor shall assess and render academic sanctions by completing the Academic Integrity Discipline Report Form. The student shall receive a copy of the completed form.
- The completed Academic Integrity Discipline Report Form shall inform the student of the findings, any academic sanctions imposed and the student's right to a review, if applicable. The faculty member shall report the violation and sanctions by submitting the form to the Student Conduct Officer via the official incident reporting system.

Academic Sanctions

- May include reduced or failing grade on an assignment or examination.
- May include reduced or failing grade in a course.
- May be rendered in addition to other disciplinary measures imposed by TSTC.
- Further disciplinary sanctions may occur if circumstances warrant or multiple academic dishonesty violations.

Review Process

Students may request a review of the instructor's decision to the Statewide Review Board. A written, final decision will be provided to the student by the Provost, Associate Provost or designee within five working days of the Statewide Review

Board’s formal findings letter.

05. Amnesty for Alcohol and Drug Emergencies

Alcohol poisoning and drug overdose are serious and life threatening medical emergencies. Students may encounter this type of emergency during their time at Texas State Technical College. Sometimes students are afraid to seek emergency medical care when alcohol poisoning or drug overdose is suspected because they do not want to get themselves or others in trouble. In order to encourage students to seek emergency medical care, TSTC has instituted the Student Amnesty for Alcohol and Drug Emergencies.

Amnesty means current TSTC students can avoid formal college disciplinary action and the creation of a formal disciplinary record when they call for help for an alcohol- or drug-related medical emergency.

Student Amnesty for Alcohol and Drug Emergencies applies in the case of the following:

- 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. Student(s) will be referred to the Student Rights and Responsibilities office and will be evaluated for amnesty.
2. Student(s) eligible for amnesty will still be required to participate in an educational component and may be referred for an individual consultation. However, they will not face formal disciplinary action.
3. Student(s) who decline or fail to attend the educational component or fail to comply will become subject to formal disciplinary action.

There are limitations to this program, and 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 Emergencies provides protection against formal disciplinary action by the college, whereas the Texas 911 Lifeline legislation provides protection against legal action.

Amnesty for Victims of Sexual Misconduct (Title IX/VAWA)

TSTC encourages reporting of Title IX incidents involving sexual misconduct which includes sexual harassment, sexual assault, dating violence and/or stalking. Sometimes victims are hesitant to report to college officials because they fear that they themselves may be charged with policy violations. TSTC recognizes that an individual who has been consuming alcohol (including underage consumption) or drugs at the time of an incident may be hesitant to make a report because of potential consequences for that conduct. To encourage reporting, an individual who makes a good faith report of a Title IX offense that was directed at them or another person, or who participates in an investigation as a witness, will not be subject to disciplinary action by TSTC for a conduct or policy violation that is related to and revealed in the sexual misconduct report or investigation, unless it is determined that the violation was serious and/or placed the health or safety of others at risk. Amnesty does not preclude or prevent action by police or other legal authorities. Refer TSTC Title IX website for more information.

06. Compact With Texans

Texas State Technical College (TSTC) is a public coeducational institution of higher education offering courses of study in technical education leading to the award of Certificates and Associate of Applied Science Degrees. TSTC also provides 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, East Williamson County and Waco
Griselda Sanchez, Student Development Specialist
griselda.sanchez@tstc.edu
325-235-7311

Harlingen, Fort Bend, Online Students, Marshall, New Braunfels and North Texas
Janette Gomez, Senior Student Development Specialist
janette.gomez@tstc.edu
956-364-4383

TSTC campuses are located at Abilene, Brownwood, Breckenridge, East Williamson County, Fort Bend County, Harlingen, Marshall, New Braunfels, North Texas, Sweetwater and Waco. TSTC serves students from more than 220 counties in Texas, and TSTC graduates may begin their careers in high-paying jobs across the state or continue their education at colleges and universities.

TSTC 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 Texas State Technical College faculty and staff to provide 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,

Courteous in all of our dealings,

Responsive to customers' 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

It is the practice of Texas State Technical College to seek fair, efficient and equitable solutions for problems that arise out of the student/college relationship and to allow any student to be heard when he/she feels that his/her rights have been violated or that an action taken by an employee of the College is unfair.

This procedure is available to all students to present complaints concerning disagreement or dissatisfaction arising out of the student/college relationship.

The filing of a student grievance is not to be interpreted as a way to change existing school policy or rules. The policy, rules or regulations of the College are of themselves not subject to a grievance process, only their implementation. This student grievance procedure is simply a way for the student to indicate that either:

1. An action taken by a school official or employee is inappropriate, improper or too harsh; or
2. He/she is being treated differently from other students.

Most questions or complaints can be resolved through routine channels. Students are encouraged to discuss questions or complaints with the instructor or employee with whom the question or complaint has arisen. Complaints received verbally and resolved through routine channels are not considered official written complaints and are not subject to this procedure.

The right of a student to prompt an equitable resolution of the complaint filed shall not be impaired by the student's pursuit of other remedies, such as filing of a grievance with the responsible federal department or agency. The Student Grievance and Complaint Procedure is posted to the college website, see SOS ES 3.24 Student Grievances and Complaints

Nonacademic Grievance Procedures

A. Initial Contact – The student must first contact the parties responsible for the action or decision that is the basis of the grievance. Students are encouraged to resolve the matter through discussions with the relevant College personnel most directly associated with the matter. College personnel with whom a concern is raised by a student shall address the matter in an open and professional manner and take reasonable and prompt action to resolve it informally. The initial contact should occur within 10 working days from the date of the action or decision that is the basis of the grievance.
B. Representative – If unsuccessful in resolving the problem, the student must contact the representative assigned to his/her local campus. The representative's name is available online in the TSTC Catalog and Student Handbook. The representative shall assist the student by:
    1. Reviewing the grievance policy with the student. The representative shall also provide the student with a copy of or a link to this SOS ES 3.24 Student Grievances and Complaints.
    2. Providing the student with theEffective Customer Service form (PDF) so that a formal written grievance may be submitted. The form is also available online in the TSTC Catalog and Student Handbook. The student shall include a summary of the nature of the grievance on the form or in an attached writing.
    3. Acknowledging receipt of the grievance in writing within five working days. The notice is intended to inform the student that the matter is receiving attention and to provide the student with an estimate of the length of time needed to resolve the issue.
C. The grievance shall be submitted to the immediate supervisor or designee of the party whose actions are being grieved. The immediate supervisor or designee shall propose a resolution consistent with TSTC policies and with applicable local, state and federal laws. The immediate supervisor or designee shall notify the student and representative of the resolution within 15 working days from receipt of the grievance. The immediate supervisor shall also provide the student with a written copy of the proposed resolution.
D. If dissatisfied with the proposed resolution, the student may request that the Statewide Review Board Committee review the grievance. This request must be made in writing to the representative within three (3) working days of receipt of the letter outlining the proposed resolution and must specify what in the resolution is unsatisfactory. The committee shall meet within 10 working days of receiving the student's request to review all available documentation. The Statewide Review Board Committee shall provide its written decision to both the student and the employee within five (5) working days from the date of the review. In the event that extenuating circumstances prevent the Statewide Review Board Committee from completing its investigation and/or report within five (5) working days, the student shall be notified of a new time frame. The Statewide Review Board Committee's decision shall be final.

Academic Grievance Procedures

A. Initial Contact – The student must first contact the parties responsible for the action or decision that is the basis of the grievance. Students are encouraged to resolve the matter through discussions with the relevant College personnel most directly associated with the matter. College personnel with whom a concern is raised by a student shall address the matter in an open and professional manner and take reasonable and prompt action to resolve it informally. The initial contact should occur 10 working days from the date of the action or decision that is the basis of the grievance.
B. Representative – If unsuccessful in resolving the problem, the student must contact the representative assigned to his/her local campus. The representative's name is available online in the TSTC Catalog and Student Handbook. The representative shall assist the student by:
    1. Reviewing the grievance policy with the student. The representative shall also provide the student with a copy of or a link to this SOS ES 3.24 Student Grievances and Complaints.
    2. Providing the student with theEffective Customer Service form (PDF) so that a formal written grievance may be submitted. The form is also available online in the TSTC Catalog and Student Handbook. The student shall include a summary of the nature of the grievance on the form or in an attached writing.
    3. Acknowledging receipt of the grievance in writing within five working days. The notice is intended to inform the student that the matter is receiving attention and to provide the student with an estimate of the length of time needed to resolve the issue.
C. The grievance shall be submitted to the Provost's office or designee of the party whose actions are being grieved. The Provost or designee shall propose a resolution consistent with TSTC policies and with applicable local, state and federal laws. The Provost or designee shall notify the student and representative of the resolution within 15 working days from receipt of the grievance. The Provost or designee shall also provide the student with a written copy of the proposed resolution.
D. If dissatisfied with the proposed resolution, the student may request that the Statewide Review Board Committee review the grievance. This request must be made in writing to the representative within three (3) working days of receipt of the letter outlining the proposed resolution and must specify what in the resolution is unsatisfactory. The committee shall meet within 10 working days of receiving the student's request to review all available documentation. The Statewide Review Board Committee shall provide its written decision to both the student and the employee within five (5) working days from the date of the review. In the event that extenuating circumstances prevent the Statewide Review Board Committee from completing its investigation and/or report within five (5)

working days, the student shall be notified of a new time frame. The Statewide Review Board Committee's decision shall be final.

Review Procedures

1. The Chair of the Statewide Review Board Committee will be responsible for assembling the committee to hear the review.
2. The decision of the Statewide Review Board Committee is final.
3. In extenuating circumstances, the time frame(s) may take longer than expected and the student with the grievance will be notified with a new time frame.
4. The Statewide Review Board Committee has a maximum of five working days from the date of the review to respond to the student and employee with a decision in writing.

Compact With Texans Complaint Handling Procedures

A. The Effective Customer Service Form must be completed and submitted to the campus representative. The form and the representative's name are available online in the TSTC Catalog and Student Handbook.
B. The representative shall acknowledge receipt of the grievance in writing within five (5) working days. The notice is intended to let the student know the matter is receiving attention and to provide the student with an estimate of the length of time needed to resolve the issue.
C. The representative shall contact the immediate supervisor about the complaint. The supervisor shall review the complaint and interview the employee and/or any witnesses, if applicable.
D. The immediate supervisor shall provide a letter within 15 working days to the complainant that addresses the complaint and what actions, if any, were taken by TSTC. This letter shall also acknowledge that the complaint has been addressed and resolved in a reasonable time period and in a manner consistent with TSTC policies and with applicable local, state and federal laws.

Student disciplinary decisions that involve severe disciplinary penalties are not subject to the Student Grievance Policy but should be run through the student conduct process.

Discrimination of a student or a Title IX grievance will be handled in accordance with SOS HR 2.4.15 Prohibiting Sexual Misconduct and Gender-Based Discrimination.

08. Family Educational Rights and Privacy Act (FERPA)

TSTC complies with the Family Educational Rights and Privacy Act (FERPA) and informs students of their rights in its handling of student records. Students' rights covered by the act are as follows:

1. The right to inspect and review the academic record within 45 days after the day Texas State Technical College receives a request for access.
   A student should submit, to the Office of the Registrar or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The school official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the school official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right of a student to petition the college to amend or correct any part of his/her academic record that is believed to be inaccurate, misleading or in violation of the privacy or other rights of the student. When the college decides it will not amend or correct a student's record, the student has a right to a hearing to present evidence that the record is inaccurate, misleading or in violation of the privacy or other rights of the student.
   A student who wishes to petition to amend or correct a record may submit a written statement to the custodian of student records identifying the part of the record the student wants changed and specifying why it should be changed. If the college decides not to amend the record as requested, the college will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment.
3. The right to provide written consent before the college discloses personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

   Texas State Technical College discloses education records without a student's prior written consent under the exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by Texas State Technical College in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person approved by and under contract to TSTC in a faculty position; a person or company with whom the college has contracted (such as an attorney, auditor or collection agent); a person appointed by the governor and confirmed by the state Senate as a member of the Texas State Technical College Board of Regents; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

   A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibilities for Texas State Technical College.

Upon request, the college may also disclose educational records without student written consent to the following:

a. parents of an eligible student who claim the student as a dependent for income tax purposes (form available in the Enrollment Center);
b. in order to comply with a judicial order or a lawfully issued subpoena;
c. appropriate parties in a health or safety emergency;
d. an alleged victim of any crime of violence or non-forcible sex offense; the disclosure may only include the final results of any institutional disciplinary proceeding with respect to that alleged crime or offense, regardless of whether the institution concluded a violation was committed;
e. the general public if the institution determines as a result of a disciplinary hearing that the student committed a crime of violence or non-forcible sex offense in violation of the institution's rules or policy or state or federal law, as authorized by state law;
f. parents of a student under the age of 21 regarding a college's determination that the student violated federal, state or local law, or institutional policy governing the use or possession of alcohol or a controlled substance.

4. The right of a student to consent to release of semester credit hours taken at other institutions to the Texas Higher Education Coordinating Board.
5. The right of any person to file a complaint with the Family Education Rights and Privacy Act Office, Department of Education, Family Policy Compliance Office, 400 Maryland Ave. SW, Washington, DC 20202-4605, if TSTC violates the FERPA.

Directory Information

Under the Family Education Rights and Privacy Act of 1974, the following is designated by TSTC as directory information and may be made public unless the student desires to withhold all or any portion of it: 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 most recent previous educational agency or institution attended by the student. A currently enrolled student may prohibit the release of directory information by completing an appropriate request form in the Enrollment Center during registration or within the first five class days of each term. Under the Privacy Act of 1974, official records are not open to the public and will not be divulged without consent from the student. Minors attending the college have the same right regarding their records as adult students. If a student is still a legal dependent of a parent or guardian, the parent has the right to access the records of the dependent student provided the parent can establish this dependency as defined by the Internal Revenue Code of 1954, section 152. This request must be made in person at the Enrollment Center by providing a copy of the most recent federal income tax return and required picture identification.

If you have any questions concerning disclosure of information contact the Office of the RegistrarStudent Privacy and FERPA updates are available at TSTC's website.

Use of Student Photographs and Signatures for Publications

It is the policy of Texas State Technical College to utilize images or signatures of students for promotion or advertising purposes after obtaining the student's written permission to do so. A release form shall be obtained for each set of student images or signatures retained for use by the college. The release form shall be maintained in the student's permanent academic record file. Other copies may be maintained elsewhere at the college's decision.

14. Faculty Listing

01. Faculty

TSTC faculty bring to the classroom years of industry experience and education.

Listed below are instructor's names, position, qualifying credentials and educational discipline.

tstc.edu/course-schedules.

Abke, Jason

Instructor

Journeyman Lineman

Electrical Lineworker

Abshier, Charles

Instructor

Associate of Applied Science

Diesel Mechanics Technology

Adams, Jonathan

Instructor

Associate of Applied Science

Culinary Arts

Aguila, Myriam

Instructor

Master of Education

Education and Training

Ahumada, Manuel

Instructor

Associate of Applied Science

Welding Technology

Alba, Guillermo

Instructor

Associate of Applied Science

Mechatronics Technology

Alcoser, Alex

Instructor

Master of Science

Cybersecurity

Alderman, Christi

Instructor

Bachelor of Science

Developmental Math

Alferez, Juan

Instructor

Associate of Applied Science

Electromechanical Technology

Allen, Austin

Instructor

Associate of Applied Science

Welding Technology

Alvear, Christina

Instructor

Master of Science

Nursing

Anderson, Hunter

Certified Flight Instructor

Bachelor of Science

Aircraft Pilot Training Technology

Anthony, Richard

Instructor

Bachelor of Arts

Aviation Maintenance

Antilley, Lance

Instructor

Associate of Applied Science

Industrial Systems

Araguz, Edgar

Instructor

Bachelor of Science

Aircraft Maintenance

Aranda, Alex

Instructor

Certificate of Completion

Welding Technology

Ardalani, Kyumars

Associate Professor

Master of Science

Mathematics

Ardalani, Shwan

Instructor

Bachelor of Business Administration

Business Management Technology

Arnold, Claudia

Instructor

Bachelor of Arts

First Year Seminar

Avila, Jose

Instructor

Associate of Applied Science

Automotive Technology

Avila, Manuel

Master Instructor

Bachelor of Arts

Drafting & Design Technology

Baesler-Ridge, Christopher

Instructor

Master of Arts

English

Bailey, Jeremy

Instructor

Associate of Applied Science

Mechanical Engineering

Baize, Truman

Instructor

Journeyman Lineman

Electrical Lineworker

Bakus, Matthew

Instructor

Certificate of Completion

Welding Technology

Barnes, Erik

Instructor

Certificate of Completion

Welding Technology

Barrera, Alberto

Instructor

Associate of Applied Science

Mechatronics Technology

Barrientos, Rolando

Instructor

Journeyman Lineman

Electrical Lineworker

Baugh, John

Instructor

Bachelor of Science

Instrumentation Technology

Bayliss, Mark

Instructor

Journeyman Lineman

Electrical Lineworker

Bazan, Pedro

Associate Professor

Master of Science

Mathematics

Benitez, Edelmiro

Instructor

Bachelor of Applied Technology

Business Management Technology

Benson, Russell

Instructor

Associate of Applied Science

Wind Energy Technology

Bibb, Jimmy

Instructor

Certificate of Completion

Plumbing & Pipefitting Technology

Bice, Lucia

Instructor

Master of Education

English

Biddy, Jonathan

Instructor

Bachelor of Arts

Navy Instructor

Blackburn, Ashley

Instructor

Bachelor of Science

Health Sciences

Blackshear, Yvonne

Instructor

Bachelor of Science

Computer Networking and Systems Administration

Blake, Gary

Instructor

Associate of Applied Science

Aviation Maintenance

Blosser, James

Instructor

Associate of Applied Science

Industrial Maintenance

Boer, James

Instructor

Associate of Applied Science

Welding Technology

Bohannon, Brian

Instructor

Certificate of Completion

Patisserie & Baking

Borden, Alley

Instructor

Bachelor of Science

Physics with Computer Science

Bowles, Roger

Professor

Bachelor of Science

Biomedical Equipment Technology

Brannen, David

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Braswell, Mark

Instructor

Associate of Applied Science

Surgical Technology

Brem, Lance

Instructor

Associate of Applied Science

Electrical Power and Controls

Breshears, Thomas

Instructor

Associate of Applied Science

Automotive Technology

Briggs, Hiley

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Briggs, Matt

Instructor

Associate of Applied Science

Emergency Medical Services

Brock, Jake

Instructor

AOS-Associate of Occupational Science

Wind Energy Technology

Brock, Jerod

Instructor

Associate of Applied Science

Diesel Equipment Technology-Construction Specialization

Brooks, Duston

Instructor

Bachelor of Business Administration

Computer Science

Brooks, Sarah

Instructor

Bachelor of Science

Health Information Technology

Brown, Linnea

Instructor

Master of Science

Nursing

Browning, Yvonne

Associate Professor

Master of Arts

Government

Bruce, Christopher

Instructor

Certificate of Completion

Combination Welding

Bryant, Elizabeth

Instructor

Master of Arts

Social Sciences

Bryant, James

Instructor

Master of Science

Nursing

Bryant, Joel

Senior Instructor

Bachelor of Science

Cybersecurity

Bufkin, Debra

Instructor

Master of Arts

Mathematics

Bullock, Jaron

Instructor

Associate of Applied Science

Aircraft Airframe & Powerplant Technology

Bunting, Cicillia

Teaching Lab Assistant

Associate of Applied Science

Culinary Arts

Burbank, Lloyd

Instructor

Associate of Applied Science

Diesel Equipment Technology

Burchett, Joshua

Instructor

Associate of Applied Science

Industrial Systems

Burke, Mason

Instructor

Certificate of Completion

Electrical Lineworker

Burnette, Jarmere

Instructor

Alternative Credentialing via Work Experience

Weldiing technology

Buterbaugh, Stacie

Instructor

Bachelor of Science

Commercial Art & Advertising

Byrd, James

Instructor

Bachelor of Business Administration

Diesel Equipment Technology

Cabarubio, Ayla

Instructor

Associate of Applied Science

Culinary Arts

Cabrera, Jorge

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Calderon, Eutiquio

Instructor

Bachelor of Science

Wind Energy Technology

Campbell, Clint

Instructor

Associate of Applied Science

Auto Body Repair

Campbell, Jena

Instructor

Bachelor of Science, Doctor of Philosophy

Biology, Marine Biology

Cantu, Becka

Instructor

Associate of Applied Science

Building Construction Technology

Capetillo, Oziel

Instructor

Associate of Applied Science

Biomedical Technology

Capps, Robert

Instructor

Associate of Applied Science

Aviation Maintenance

Carithers, Eric

Instructor

Associate of Applied Science

Electrical Lineworker

Carroll, Rebecca

Instructor

Associate of Applied Science

Drafting & Design Technology

Carter, Rose

Instructor

FAA-Certified Flight Instructor/Pilot

Certified Flight Instructor

Case, Cody

Instructor

Journeyman Lineman

Electrical Lineworker

Castillo, Charles

Instructor

Master of Science

Biology

Cermeno, Vivienne

Instructor

Bachelor of Science

Dental Hygiene

Cernosek, Brandon

Instructor

Associate of Applied Science

Welding Technology

Cervantez, Rudy

Instructor

Associate of Applied Science

Automotive Technology

Chaffin, Tony

Instructor

Master of Science

Building Construction Technology

Chaney, Edward

Instructor

Associate of Applied Science

Industrial Systems

Chapman, Haley

Instructor

Master of Business Administration

Business Management Technology

Chavez, Leonardo

Instructor

Associate of Applied Science

Computer Networking and Systems Administration

Chavez, Ramiro

Instructor

Associate of Applied Science

Aircraft Airframe Technology

Cherry, Aaron

Instructor

Doctor of Philosophy

Psychology

Childs, Howard

Professor

Doctor of Education

Developmental Math

Chirino, Hermes

Instructor

Master of Science

Chemistry

Chrisman, Michael

Instructor

Journeyman Lineman

Electrical Lineworker

Christensen, Clayton

Instructor

Associate of Applied Science

Robotics

Christian, Andrew

Instructor

Associate of Applied Science

Computer Networking and Systems Administration

Christian, Bryan

Instructor

Certificate of Completion

Network Info Management Technology

Christian, Curtis

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Chung, James

Instructor

Associate of Applied Science

Wind Energy Technology

Clark, Bryan

Instructor

Associate of Applied Science

Drafting & Design Technology

Clark, Douglas

Instructor

Bachelor of Science

Aviation Technology Mg

Claus, Edna

Professor

Doctor of Philosophy

Business Management Technology

Clawson, Savannah

Instructor

Associate of Applied Science

Instrumentation Technology

Cockrell, Thomas

Instructor

Associate of Applied Science

Electrical Power and Controls

Cockrum Burke, Kristin

Instructor

Associate of Applied Science

Welding Technology

Coffman, Steven

Instructor

Associate of Applied Science

Computer Science

Coldiron, Joan

Instructor

AS-Associate of Science

Nursing

Collins, Curtis

Instructor

Associate of Applied Science

Industrial Systems

Colunga-Hernandez, Norma

Associate Professor

Master of Science

Electrical Engineering

Contois, Scott

Instructor

Master of Science

Mathematics

Contreras-Gonzalez, Adriana

Instructor

Associate of Applied Science

Emergency Medical Services

Cooper, Meagan

Instructor

Associate of Applied Science

Laser-Electro Optics

Cooper, Michael

Instructor

Associate of Applied

Science Electronic Technology

Cordero, Joshua

Instructor

Associate of Applied Science

Computer Networking Security

Coronado, Frank

Instructor

Master of Arts

Psychology

Cortez, Adrienne

Staff

Associate of Applied Science

Surgical Technology

Cottrell, Ralph

Instructor

Bachelor of Science

Industrial Safety

Cowart, Susan

Instructor

Master of Arts

English

Cram, Nick

Instructor

Bachelor of Science

Process Operations

Crawford, Bobby

Instructor

Associate of Applied Science

Electrical Engineering

Creps, Emma

Instructor

Associate of Applied Science

Culinary Arts

Croft, Brian

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Cross, Jared

Instructor

Certificate of Completion

Aircraft Airframe & Powerplant Technology

Cross, Thomas

Instructor

Associate of Applied Science

Aviation Maintenance

Cureton, Mark

Instructor

Certificate of Completion

Refinishing & Repair Specialist - Auto Collision

Curtis, John

Instructor

Associate of Applied Science

Diesel Equipment Technology

Czajkowski, Anthony

Instructor

FAA License

Airframe & Powerplant

Dalgetty, Jamie

Instructor

Associate of Applied Science

Welding Technology

Davalos Aguilar, Jose

Instructor

Certificate of Completion

Plumbing & Pipefitting Technology

Davila, Yonatan

Instructor

Associate of Applied Science

Welding Technology

Davis, Chasey

Instructor

Associate of Applied Science

Culinary Arts

Davis, Duane

Instructor

TLCB HVAC License

Heating Ventilation and AC

Dawe, Jon

Master Instructor

Associate of Applied Science

Automotive Technology

Deanda, Candelario

Instructor

Certified Lineman

Electric Lineworker

De la Cerda, Callie

Instructor

Master of Arts

Psychology

De la Fuente, Maria

Instructor - Dual Credit

Bachelor of Science

Family & Consumer Sciences

De Leon, Kimberly

Instructor

Associate of Applied Science

Computer-Aided Drafting and Design

Deleon, Rodney

Instructor

Journeyman Lineman

Electrical Lineman

Deadmon, Jeremy

Instructor

Associate of Applied Science

Electrical Power and Controls

Deibert, Alexander

Instructor

Associate of Applied Science

Welding Technology

Del Angel, Maria

Instructor

Master of Education

Professional Skills-English

Delgado, Jenny

Instructor

AS-Associate of Science

Biology

Delgado, Ryan

Instructor

Associate of Applied Science

Electrical Power and Controls

Delong, Ivy

Instructor

Bachelor of Science

Chemical Dependency Counseling

Denman, Blake

Instructor

Alternative Credential Experiential

Welding Technology

Derks, Raleigh

Instructor

Associate of Applied Science

Welding Technology

Desjardins, Tony

Instructor

Doctor of Education

Education and Training

Desper, Jeffrey

Instructor

Additional Courses Taken

Automation and Controls Technology

Diabate, Ismael

Instructor

Associate of Applied Science

Instrumentation & Process Control Technology

Diamond, Mark

Instructor

Bachelor of Business Administration

Culinary Arts

Diaz, Daniel

Instructor

Associate of Applied Science

Industrial Systems

Dickerson, Brandon

Instructor

Associate of Applied Science

Electrical Construction

DiLullo, Christopher

Instructor

Associate of Applied Science

Industrial Occupations

Dionne, Jacob

Instructor

Associate of Applied Science

AdvAutoTech w/High Performance

Dixon, James

Instructor

Associate of Applied Science

Electrical Power and Controls

Dobbs, Matthew

Instructor

Associate of Applied Science

Diesel Equipment Technology

Dorazil, Bryan

Instructor

Associate of Applied Science

Air Conditioning Residential

Doughty, David

Instructor

Associate of Applied Science

Aviation Maintenance

Dulock, Mary

Instructor

Associate of Applied Science

Drafting & Design Technology

Durham, Jarriet

Instructor

Associate of Applied Science

Industrial Maintenance

Edwards, Ronald

Instructor

Associate of Applied Science

IT/Networking & Security Management

Ellwood, Russell

Instructor

Master of Science

Mathematics

Elston, Jeffrey

Instructor

Associate of Applied Science

Welding Technology

Engel, David

Instructor

Associate of Arts

General Studies

Epley, Luke

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Escamilla, Eva

Instructor

Bachelor of Science

Mathematics

Escamilla, Javier

Instructor

Associate of Applied Science

Welding Technology

Esparza, Juan

Instructor

Associate of Applied Science

Welding Technology

Espinosa, Cecilia

Instructor

Bachelor of Science

Building Construction

Esquivel, Erica

Instructor

Master of Education

Education & Training

Ewing, Todd

Instructor

Master of Science

Biomedical Equipment

Ferguson, Shannon

Senior Instructor

Bachelor of Applied Technology

Web Design & Development

Ferguson, William

Instructor

Associate of Applied Science

Aircraft Airframe & Powerplant Technology

Fernandez, Cesar

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Filut, Richard

Instructor

Bachelor of Business Administration

Business Administration

Flener, Samara

Instructor

Associate of Applied Science

Welding Technology

Flores-Jinez, Jenaro

Instructor

Associate of Applied Science

Mechatronics Technology

Follis, Daniel

Instructor

Associate of Applied Science

Cybersecurity

Folz, David

Instructor

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

Ford, Abigail

Master Instructor

Master of Arts

English

Formacio-Serna, Emmanuel

Instructor

Bachelor of Science

General Medicine

Foster, Brandon

Instructor

Associate of Applied Science

Diesel Engine Technology

Fowler, Maxie

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Francia, Joseph

Instructor

Associate of Applied Science

Welding Technology

Fritz, Stacy

Instructor

Bachelor of Science

Multidisciplinary Studies

Fulbright, Christie

Instructor

Master of Science

Mathematics

Fuller, John

Instructor

Alternative Credential in Experiential

Welding

Gaither, Garnet

Master Instructor

BFA-Bachelor of Fine Arts

Art

Galenbeck, Jiggs

Instructor

Associate of Applied Science

Aircraft Systems Maintenance

Garcia, Javier

Instructor

Certified Lineman

Electrical Lineworker

Garrick, Abriel

Instructor

Master of Arts

English

Garvin, David

Instructor

Master Electrician

Solar/Electrical Energy Technology

Garza, Gabriel

Instructor

Bachelor of Arts

Digital Media Design Technology

Garza, Rene

Instructor

MFA-Master of Fine Arts

Art

Gathright, Sean

Instructor

Associate of Applied Science

Aviation Maintenance

Gay, Michael

Master Instructor

Master of Arts

Biology

Getman, Marta

Associate Professor

Master of Arts

Psychology

Glenn, Joshua

Instructor

Associate of Applied Science

Automotive Technology

Glomb, Kenneth

Instructor

Bachelor of Business Administration

Electric Power and Controls

Godfrey, Darrell

Instructor

Bachelor of Science

Parks and Recreation Management

Gomez, Arturo

Instructor

Certificate of Completion

Welding Technology

Gonzales, Amy

Instructor

Master of Education

Counseling & Guidance

Gonzales, Sarah

Instructor

Master of Arts

English

Gonzalez, Isaac

Instructor

Associate of Applied Science

Machining Tech

Gonzalez, Joe

Instructor

Associate of Applied Science

Information Management Technology

Gonzalez, Marilee

Instructor

Bachelor of Science

Dental Hygiene

Goolsbee, Asa

Instructor

Certificate of Completion

Welding Technology

Graham, William

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Gray, Claude

Instructor

Associate of Applied Science

Building Construction Technology

Gremillion, Lance

Instructor

Bachelor of Arts

Automotive Technology

Griffin, Erica

Instructor

Associate of Applied Science

Process Technology

Grimes, Jeremy

Instructor

Journeyman Lineman

Electrical Lineworker

Guajardo, Aron

Instructor

Associate of Applied Science

Mechatronics Technology

Guajardo, Leo

Instructor

Associate of Applied Science

Aviation Maintenance

Guerrero, Manuel

Instructor

Associate of Applied Science

Welding Technology

Guerrero, Veronica

Instructor

Certificate of Completion

Licensed Vocational Nurse

Guevara, Victor

Instructor

Certificate of Completion

Automotive Mechanic

Guinn, Lyle

Instructor

Associate of Applied Science

Mechanical Engineering

Gutierrez, Jesus

Instructor

Master of Arts

English

Harley, David

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Harper, Dean

Instructor

Associate of Applied Science

Instrumentation Technology

Haugh, Jesse

Instructor

Associate of Applied Science

Diesel Equipment Technology

Hayes, Bradley

Instructor - Adjunct

Associate of Applied Science

Diesel Equipment Technology

Henderson, David

Instructor

Associate of Applied Science

Diesel Equipment Technology

Hensley, John

Instructor

Master of Science

First Year Seminar

Hermes, Ryan

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Hernandez, Christopher

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning

Hernandez, Jessie

Instructor

Associate of Applied Science

Surgical Technology

Hernandez, Luis

Instructor

Doctor of Philosophy

Chemistry

Hernandez, Marisol

Instructor

Master of Science

Biology

Hertel, Amy

Instructor

Bachelor of Science

Cybersecurity

Hightower, JoLynn

Master Instructor

Bachelor of Business Administration

Accounting

Hildebrandt, Jesse

Instructor

Certificate of Completion

Auto Collision-Repair & Refinishing

Hill, Cody

Instructor

Certificate of Completion

Welding Technology

Hinojosa, Patricia

Instructor

Master of Science

Instructional Design & Tech

Hinojosa, Vanessa

Instructor

Master of Science

Nursing

Hodge, Jerroll

Instructor

Associate of Applied Science

Welding Technology

Hodges, Riley

Instructor

Alternative Credential Experiential

Electrical Lineman

Hogue, James

Instructor

Master of Science

Information Management Technology

Hollingshead, Phyllis

Master Instructor

Bachelor of Science

Computer Science

Hollis, Christina

Instructor

Bachelor of Arts

Digital Imaging Technology

Hope, Stephen

Instructor

Certificate of Completion

Master Welder

Hosseinpour, Mehrdad

Master Instructor

Master of Education

Adult Education

Houston, Brandon

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Hugghins, Steven

Instructor

Associate of Applied Science

Electrical Power and Controls

Human, Lucretia

Instructor

Master of Education

Dental Hygiene

Humphrey, David

Instructor

Master of Arts

Writing, Rhetoric & Discourse

Hutcherson, Russell

Instructor

Associate of Applied Science

Welding Technology

Hutchings, Joe

Instructor

Master Plumber

Plumbing and Pipefitting

Ivy, James

Instructor

Associate of Applied Science

Diesel Equipment Technology - Heavy Truck

Jaimes, Richard

Instructor

Associate of Applied Science

Welding Technology

James, Jesse

Instructor

Master of Science

Biology

Jenkins, Larry

Instructor

Bachelor of Science

Industrial Systems Technology

Johndrow, Paul

Instructor

Master of Science

Mathematics

Johnson, Luther

Instructor

Associate of Applied Science

Welding Technology

Jones, Billie

Instructor

Associate of Arts

Liberal Arts

Jones, Casey

Instructor

Bachelor of Science

Computer Programming

Jones, Demetri

Instructor

Associate of Applied Science

Industrial Systems Management

Jones, Desiree

Instructor

Associate of Applied Science

Visual Communication/Digital Design

Jones, Ronald

Instructor

Associate of Applied Science

Electrical Lineworker

Jones, Ross

Instructor

Certificate of Completion

Aircraft Airframe & Powerplant Technology

Juarez Jr, Andres

Instructor

Associate of Applied Science

Tool and Die Technology

Juarez, Alvaro

Instructor

Associate of Applied Science

Precision Machining Technology

Kahl, Carlyn E.

Master Instructor

Master of Arts

History

Kahler, Kent

Instructor

Associate of Applied Science

Diesel Equipment Technology

Kaltenbach, Patrick

Instructor

Certificate of Completion

Auto Collision & Management Technology

Keener, Curtis

Instructor

Associate of Applied Science

Occupational Safety and Environmental Compliance

Keith, Melinda

Instructor

Bachelor of Science

Mathematics

Kimberley, Patricia

Senior Instructor

Associate of Applied Science

Information Processing Technology

Kirk, Richard

Professor

Doctor of Education

Psychology

Kirkpatrick, Suzy

Instructor

Associate of Applied Science

Drafting & Design Technology

Kluck, Kevin

Instructor

Associate of Applied Science

Diesel Equipment Technology

Knudsen, Martin

Associate Professor

Master of Science

Occupational Safety and Environmental Compliance

Kolar, James

Instructor

Associate of Applied Science

Electrical Power Technology

Kotowicz, James

Instructor

Associate of Applied Science

Diesel Equipment Technology

Kotzur, Velma

Associate Professor

Master of Arts

Sociology

Kraska, Rebecca

Instructor

Bachelor of Science

Business Management

Kunkel, Kyle

Instructor

Certificate of Completion

Welding Technology

Labanieh, Yahya

Instructor

Master of Science

Cybersecurity

Lairson, Michael

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Lara, Agustin

Instructor

Associate of Applied Science

Cybersecurity

Larrazolo, Francisco

Instructor

Master of Education

Developmental Math

Larson, Richard

Instructor

MSVE -Master of Science in Vocational Education

Occupational Education

Leija, Eldwin

Instructor

Bachelor of Science

Automation & Controls Technology

Leija, Raymundo

Instructor

Certificate of Completion

Auto Collision Repair

Leining, Harry

Instructor

Alternative Credentialing Experiential

Precision Machining

Liedtke, Tyson

Instructor

Associate of Applied Science

Automotive Technology

Limas, Ricardo

Instructor

Associate of Applied Science

Machining Tech

Lloyd, Tony

Instructor

Associate of Applied Science

Electrical Power and Controls

Longoria, Ray

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Love, Christopher

Instructor

Associate of Applied Science

Cybersecurity

Love, James

Instructor

Associate of Applied Science

Electrical Lineworker

Lovelace, Robert

Master Instructor

Associate of Applied Science

Instrumentation Technology

Lovell, Daniel

Instructor

Master Electrician

Solar Electrical Technology

Loya, Miguel

Instructor

Associate of Applied Science

Drafting & Design Technology

Lozano, Jose

Instructor

Associate of Applied Science

Computer Science

Lucas, Christopher

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Lynch, Corey

Instructor

Associate of Applied Science

Automotive Technology

Lynn, Elizabeth

Instructor

Master of Science

Nursing

Lynn, Philip

Instructor

Bachelor of Science

Business Administration

Magboo, Ramiro

Instructor

Master of Science

Mechatronics Technology

Mankey, Jonathan

Instructor

Associate of Applied Science

Network Security

Marquez, Salvador

Instructor

Associate of Applied Science

Welding Technology

Marshall, Tracy

Senior Instructor

Associate of Applied Arts

Auto Collision

Martin, Daniel

Instructor

Associate of Applied Science

Nursing

Martin, Darrell

Instructor

Bachelor of Applied Arts & Sciences

Industrial Systems Maintenance

Martin, Eric

Instructor

FAA License Airframe & Powerplant Mechanic

Airframe & Powerplant Maintenance

Martin, Heath

Instructor

Associate of Applied Science

Instrumentation & Electrical Sys.

Martin, John

Instructor

Certificate of Completion

Automotive Technology

Martin, Jordyn

Instructor

Bachelor of Science

Nursing

Martin, Linda

Senior Instructor

Bachelor of Science

Instrumentation Technology

Martin, Michael

Instructor

Bachelor of Applied Science

Instrumentation Technology

Martin, Victoria

Instructor

Master of Science

Dental Hygiene

Martinez, Albert

Instructor

Associate of Applied Science

Industrial Maintenance

Martinez, Alfredo

Instructor

Associate of Applied Science

Building Construction Technology

Martinez, Eufemio

Instructor

Certificate of Completion

Gas Metal Arc Welding

Martinez, Luis

Instructor

Associate of Applied Science

Emergency Medical Services

Martinez, Raymond

Instructor

Alternative Credentialing Experiential

Welding

Mast, Jason

Instructor

Doctor of Philosophy

Physics

Matus, John

Instructor

Associate of Applied Science

Instrumentation Technology

Mayo, Corey

Instructor

Associate of Applied Science

Computerized Controlled Systems & Robotics

McCaslin, Steven

Instructor

Associate of Applied Science

Emergency Medical Services

McCracken, Joel

Instructor

Associate of Applied Science

Industrial Electronics

McCuen, Douglas

Instructor

Certificate of Completion

Heating, Ventilation, & Air Conditioning (HVAC) Technology

McGinnis, John

Instructor

Bachelor of Science

Computer Science

McKee, Philip

Instructor

Certificate of Completion

Repair & Refinishing Specialist - Auto Collision

McLennan, Stuart

Instructor

Bachelor of Science

Cybersecurity

McMahan, Brandon

Instructor

Associate of Applied Science

Instr/Comp Ctrls & Robotics

McMichael, Thomas

Instructor

Certificate of Completion

Diesel and Heavy Truck Mechanics

Medina, Frank

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Medrano, Adrian

Instructor

Associate of Applied Science

Computer Networking and Systems Administration

Medrano, Judy

Instructor

Master of Science

Nursing

Mendez, Mike

Instructor

Journeyman Lineman

Electrical Lineworker

Mesa, Joe

Instructor

Alternative Credentialing Experiential

Precision Machining

Miller, Herschel

Instructor

Associate of Applied Science

Building Construction Technology

Miller, Philip

Instructor

Associate of Applied Science

Welding Technology

Millington, James

Instructor

Bachelor of Science

Computer Network Administration

Mills, Matthew

Instructor

Associate of Applied Science

Automotive Technology

Mitchell, Dustin

Instructor

Additional Courses Taken

Electrical Lineworker

Mitchell, Robert

Instructor

Bachelor of Science

Electrical Lineworker

Mocuta, Marcel

Instructor

FAA License Airframe & Powerplant Mechanic

Airframe & Powerplant Maintenance

Molini, Frank

Instructor

Certificate of Completion

Welding Technology

Moncus, Connie

Instructor

Master of Business Administration

Business Management Technology

Monk, Leslie

Instructor

Associate of Arts

Liberal Arts

Moore, Joe

Instructor

Associate of Applied Science

Computer Servicing Technology

Moore, Kenneth

Instructor

Associate of Applied Science

Welding Technology

Morman, Robert

Instructor

Associate of Applied Science

Nursing

Morrow, Jason

Instructor

Associate of Applied Science

Environmental Technology

Moss, Steven

Associate Professor

Master of Arts

History

Montoya, Tony

Instructor

Journeyman Plumber

Plumbing and Pipefitting

Morelock, William

Instructor

Alternative Credentialing Experiential

Building Construction

Murphy, David

Instructor

Bachelor of Science

Industrial Engineering

Murphy, Michael

Master Instructor

Bachelor of Arts

Developmental Mathematics

Murrell, Brenda

Instructor

Bachelor of Science

Drafting & Design Technology

Myers, James

Instructor

Associate of Applied Science

Architectural/Civil Drafting Technology

Myers, Jessica

Instructor

BAS-Bachelor of Applied Science

Dental Hygiene

Nacianceno, Adrian

Instructor

Associate of Applied Science

Aircraft Powerplant Technology

Nagel, Michael

Instructor

Alternative Credentialing Experiential

Welding Technology

Nauman, Sam

Associate Professor

Master of Science Developmental

Mathematics

Necessary, Bryan

Instructor

Associate of Applied Science

Electrical Systems Technology

Nelson, Cameron

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Neufeld, Martha

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Newhart, Angel

Instructor

Associate of Applied Science, Bachelor of Science

Aircraft Pilot Training Technology

Nguyen, Dien

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Nicholas, Gregory

Instructor

Certificate of Completion

Master Welder

Nicholson, Cally

Instructor

Master of Science

Psychology

Nieto, Javier

Instructor

Master of Science

Computer Science

Nixon, Daniel

Instructor

Associate of Applied Science

Instrumentation Technology

Nizigiyimana, Deogratias

Instructor

Associate of Applied Science

Precision Machining Technology

Nunez, Edward

Instructor

Associate of Applied Science

Electrical Lineworker

O'Neal, Patricia

Instructor

Bachelor of Science

Mathematics

Obare, Charles

Instructor

Master of Science

Mathematical Sciences

Oliver, Nathan

Instructor

Certificate of Completion

Master Welder

Owens, Jonathan

Instructor

Associate of Applied Science

Cybersecurity

Palacios, Emanuel

Instructor

Associate of Applied Science

Computer Networking and Systems Administration

Palady, Jayme

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Palomino, Jennifer

Instructor

Doctor of Philosophy

Physics

Panayoton, Dimitri

Instructor

Certificate of Completion

Aircraft Airframe Technology

Park, Imbok

Instructor

Doctor of Nursing Practice

Nursing

Parker, William

Instructor

Certificate of Completion

Machining Tech

Parks, Shelley

Instructor

Bachelor of Arts

Basic Skills & Developmental/Remedial Education

Parsee, Jerome

Instructor

Master of Arts

Sociology

Pate, John

Instructor

Associate of Applied Science

Computer Information System

Pavelka, Jakob

Instructor

Associate of Applied Science

Welding Technology

Pawelek, Adrian

Instructor

Associate of Applied Science

Culinary Management

Peace, Johnny

Instructor

Alternative Credentialing Experiential

Diesel Equipment technology

Peine, Mickle

Instructor

Associate of Applied Science

Instrumentation Technology

Pena, Jose

Instructor

Associate of Applied Science

Automotive Technology

Pennington, Wallace

Instructor

Bachelor of Business Administration

Computer Information System

Perez III, Tomas

Instructor

Associate of Applied Science

Associate Degree in Nursing

Pesnell, James

Instructor

Associate of Applied Science

Welding Technology

Peters, Douglas

Instructor

Associate of Applied Science

Computer Science

Peterson, Matthew

Instructor

Associate of Applied Science

Diesel Equipment Technology

Phillips, Andrew

Instructor

Bachelor of Business Administration

Computer Science

Phillips, Danial

Instructor

Certificate of Completion

CNC Machining & Manufacturing

Phillips, Daniel

Instructor

Associate of Applied Science

Diesel Equipment Technology

Pickens, Richard

Instructor

Associate of Applied Science

Automotive Technology

Pierce, Joe

Master Instructor

Bachelor of Arts

Journalism

Pittman, Christopher

Instructor

Certificate of Completion

Diesel Technology

Pitts, Ronnie

Instructor

Associate of Applied Science

Emergency Medical Services

Pizano, Samuel

Instructor

Associate of Applied Science

Computer-Aided Drafting and Design

Place, David

Instructor

Master of Science

Digital Media Design

Plough, Mark A.

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Polansky, George

Instructor

Certificate of Completion

Basic Plumbing

Polster, Elaine

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Porras, Paul

Instructor

Associate of Applied Science

Culinary Arts

Porter, Chris

Instructor

Associate of Applied Science

Building Construction Technology

Poston, Gregory

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Powledge, Troy

Instructor

Associate of Applied Science

Electronic Technology

Price, Edward

Instructor

Associate of Applied Science

Heavy Truck Technology

Price, Justin

Instructor

Associate of Applied Science

Drafting & Design Technology

Procopio, Jennifer

Instructor

Master of Science

Psychology

Proctor, Winona

Instructor

Master of Science

Nursing

Purcell, Teresa

Instructor

Associate of Applied Science

Economics

Purnell, Shirin

Staff

Bachelor of Arts

Media Production

Pustejovsky, Andrew

Instructor

Master Electrical

Electrical Construction

Pyatt, William

Instructor

Alternative Credentialing Experiential

Electrical Power and Controls

Ramirez, Beyda

Instructor

Bachelor of Science

Health Information Technology

Ramirez, Maria

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Ramirez, Priscilla

Instructor

Master of Science

Education Technology

Ramirez, Ruben

Instructor

Associate of Applied Science

Emergency Medical Services

Ramirez, Victor

Senior Instructor

Master of Science

Architectural Design & Engineering Graphics Technology

Ramirez, Yolanda

Instructor

Bachelor of Applied Technology

Surgical Technology

Ray, David

Instructor

Associate of Applied Science

Culinary Arts

Rayson II, Patrick

Instructor

Certificate of Completion

Electrical Lineworker

Rebando, Joey

Instructor

Alternative Credentialing Experiential

Building Construction

Reyes, Adrienne

Instructor

Master of Science

Nursing

Reyes, Carlos

Instructor

Associate of Applied Science

Electronic Technology

Reyna, Jesus

Instructor

Alternative Credentialing Experiential

Auto Collision & Management Technology

Reyna, Jose

Instructor

Associate of Applied Science

Diesel Equipment Technology

Reynolds, Thomas

Instructor

Master of Education

Aviation Maintenance

Rhoades, Julie

Master Instructor

Bachelor of Business Administration

Computer Information System

Rice, Charlene

Instructor

Master of Science

Nursing

Rico, Raquel

Instructor

Master of Education

Dental Hygiene

Rivas, Isaac

Instructor

Associate of Applied Science

Welding Technology

Rivera, Martha

Instructor

Associate of Applied Science

Food Service, Culinary Arts

Roach, James

Instructor

Associate of Applied Science

Electronic Technology

Roberts, Samuel

Instructor

Associate of Applied Science

Industrial Maintenance

Rodriguez, Frank

Instructor

Bachelor of Science

Mathematics

Rodriguez, Janie

Instructor

Master of Science

Nursing

Rodriguez, Javier

Instructor

Alternative Credentialing Experiential

Wind Energy Technology

Rodriguez, Jennifer

Associate Professor

Master of Fine Arts

Art

Rodriguez, Joaquin

Instructor

Associate of Applied Science

Welding Technology

Rodriguez, Rene

Instructor

Associate of Applied Science

Building Construction Technology

Romo, Jaime

Instructor

Master of Science

Physics

Rosa, Hector

Instructor

Associate of Applied Science

Building Construction Technology

Ruble, Sherri

Senior Instructor

Associate of Applied Science

Computer Networking and Systems Administration

Ruiz, Apolinar

Instructor

Associate of Applied Science

Precision Machining Technology

Russell, Nancy

Associate Professor

Master of Science

Art

Salas, David

Instructor

Bachelor of Science

Nursing

Saldivar, Eduardo

Instructor

Master of Science

Biology

Saldivar, Raul

Instructor

Associate of Applied Science

Welding Technology

Salinas, Christon

Instructor

Master of Arts

Political Science

Salinas, Dominic

Instructor

Associate of Applied Science

Emergency Medical Technician

San Pedro, Anna

Senior Instructor

Master of Science

Surgical Technology

Sanchez, David

Instructor

Bachelor of Applied Arts & Sciences

Biomedical Equipment Technology

Sanchez, Edward

Instructor

Associate of Applied Science

Welding Technology

Sanchez, Mario

Instructor

Certificate of Completion

Industrial Maintenance

Sanders, Aeisha

Instructor

Bachelor of Science

Biology

Sanders, Devin

Instructor

Associate of Applied Science

Biomedical Equipment - Medical Imaging Systems Specialization

Sargent, John

Senior Instructor

Master of Arts

Architectural Design & Engineering Graphics Technology

Sauceda, Heather

Instructor

Associate of Applied Science

Nursing

Scalley, Timothy

Instructor

Associate of Applied Science

Emergency Medical Services

Schaaf, Connie

Instructor

Doctor of Education

Chemical Dependency Counseling

Scheler, Carol

Senior Instructor

Bachelor of Science

Computer Networking and Systems Administration

Schier, Joshua

Instructor

Associate of Applied Science

Networking & IT Security

Schmitt, Bruce

Instructor

Associate of Applied Science

Automotive Technology

Scruggs, Cathy

Instructor

Associate of Applied Science

Emergency Medical Services

Seamanski, Jon

Instructor

Associate of Applied Science

Building Construction Technology

Senn, Jonathan

Instructor

Associate of Applied Science

Aviation Maintenance

Serrato, Agapito

Instructor

Master of Science

Chemistry

Sexton, Sharon

Associate Professor

Master of Education

Psychology

Shearer, Samuel

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Shields, Robert

Instructor

Associate of Applied Science

Electrical Technology

Shorter, Linda

Senior Instructor

Associate of Applied Science

Drafting & Design Technology

Silva, Elvia

Master Instructor

Associate of Applied Science, Master of Education

Industrial Data Processing Sociology

Simien, Joseph

Instructor

Associate of Applied Science

Refrigeration and AC Technology

Simonetti, James

Instructor

Alternative Credentialing Experiential

Electromechanical Technology

Skinner-Creeks, Andrea

Instructor

Bachelor of Science

Biology/Chemistry

Skinner, Tyson

Instructor

Associate of Applied Science

Computer-Aided Drafting and Design

Slagle, Steven

Instructor

Bachelor of Science, Master of Arts

Political Science

Smyth, Griffin

Instructor

Associate of Applied Science, Certificate of Completion

Welding Technology, Combination Welding

Snyder, Timothy

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Soto, Arnoldo

Instructor

Associate of Applied Science

Electromechanical Technology

Sparks, Charles

Instructor

Associate of Applied Science

Electronics Engr Tech

Speckels, Jim

Instructor

Master of Arts

Developmental English

Stallard, Ethan

Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Stampley, Josh

Instructor

Associate of Applied Science

Drafting & Design Technology

Stanislaw, Brandon

Instructor

Certificate of Completion

Welding/Combination Welding

Staton, Kevin

Instructor

Associate of Applied Science

Electrical Power and Controls

Stepp, Arnold

Instructor

Associate of Applied Science

Electrical Power and Controls

Stevens, Karen

Associate Professor

Associate of Applied Science

Computer Networking and Systems Administration

Stewart, Heather

Instructor

Master of Arts

English

Stimmel, Jannifer

Instructor

Associate of Applied Science

Auto Collision & Management Technology

Stotts, Katrina

Instructor

Associate of Applied Science

Health Information Technology

Strange, Joseph

Instructor

Associate of Applied Science

Automotive Technology

Strunck, John

Instructor

Associate of Applied Science

Welding Technology

Suggs, Robert

Instructor

Associate of Applied Science

Diesel Equipment Technology

Sulak, Elaine

Senior Instructor

Master of Science

Education and Training

Sutton, Jase

Instructor

Master of Arts

History

Szymoniak, Steven

Instructor

MMaster of Business Administration

Business Management Technology

Taliancich, William

Senior Instructor

Master of Arts

English

Tamez, Amanda

Instructor

Bachelor of Science

Mathematics

Tamez, Leo

Instructor

Certificate of Completion

Diesel Equipment Technology

Tawney, Jarrod

Instructor

Certificate of Completion

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Taylor, Kathy

Instructor

Bachelor of Science

Nursing

Teat, Jacob

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Thomas, Miranda

Senior Instructor

Master of Science

Biology

Thomas, Thurman

Instructor

Associate of Applied Science

Electrical Construction

Thompson, Jamie

Instructor

Associate of Applied Science

Chemical Dependency Counseling

Timmons, Darin

Instructor

Master Electrician

Solar/Electrical Technology

Toledo, Angel

Instructor

Certified Lineman

Electrical Lineworker

Torres, Tony

Instructor

Bachelor of Science

Web Design

Townsend, Juanita

Instructor

Master of Arts

Communications

Trainor, Linda

Instructor

Bachelor of Science

Developmental English

Tucker, David

Instructor

Associate of Applied Science

Electrical Power and Controls

Tull-Mincher, Anthony

Instructor

Bachelor of Science

Biomedical Equipment

Turner, Heather

Senior Instructor

Master of Education

Developmental Math

Turner, Justin

Instructor

Associate of Applied Science

Culinary Arts

Uresti, Juan

Instructor

Associate of Applied Science

Welding Technology

Uribe, Luis

Instructor

Master of Science

Biology

Useforge, Zachary

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Usery, Jacob

Instructor

Bachelor of Science

Computer Networking

Valadez, Micaela

Instructor

Master of Arts

History

Valdez, Magaly

Instructor

Associate of Applied Science

Computer-Aided Drafting and Design

Valenta, Kyler

Instructor

Associate of Applied Science

Instrumentation Technology

Valentine, Matthew

Instructor

Associate of Applied Science

Diesel and Heavy Truck Mechanics

Van Demark, Adam

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Vargas, Rick

Instructor

Associate of Applied Science

Building Construction Technology

Vasquez, Jose

Instructor

Associate of Applied Science

Auto Collision Technology

Vasquez, Troy

Instructor

Alternative Credentialing Experiential

Electrical Lineman

Vavra, JJ

Master Instructor

Bachelor of Arts

Digital Media Design Technology

Velasquez III, Bonifacio C.

Instructor

Associate of Applied Science

Electronics Engineering Technology

Vera, Jose

Instructor

Master of Science

Mathematics

Verzal, Victor

Instructor

Alternative Credentialing Experiential

Electrical Lineworker

Vetiaque, Rose-France

Instructor

Bachelor of Science

Nursing

Vidler, Douglas

Instructor

Associate of Applied Science

Industrial Maintenance

Viera, Edgard

Instructor

Associate of Applied Science

Aircraft Pilot Training

Villarreal, Everardo

Instructor

Master of Science

Chemistry

Villarreal, Monica

Instructor

Master of Arts

Communications

Villarreal, Santiago

Instructor

Associate of Applied Science

Digital Media Design Technology

Vinson, Max

Instructor

Associate of Applied Science

Process Operations

Vorderkunz, Alex

Instructor

Associate of Applied Science

Biomedical Equipment Technology

Wade, Curt

Instructor

Associate of Applied Science

Electrical Power and Controls

Walders, Larry

Instructor

Associate of Applied Science

Electrical Power and Controls

Walker, John

Master Instructor

Bachelor of Science

Nuclear Engineering Technology

Walters, Wade

Certified Flight Instructor

Associate of Applied Science

Aircraft Pilot Training Technology

Ware, Steven

Instructor

Bachelor of Science

Developmental Math

Warnasch, Craig

Instructor

Associate of Applied Science

Heating, Ventilation, & Air Conditioning (HVAC) Technology

Washington, John

Associate Professor

Master of Business Administration

Computer Networking and Systems Administration

Watkins, Susie

Associate Professor

Master of Arts

Computer Programming

Weakley, Brian

Instructor

Associate of Applied

Science Electronic Technology

Weaver, Billy

Instructor

Associate of Applied Science

Air Conditioning & Refrigeration Technology

Weir, Shannon

Instructor

Associate of Applied Science

Diesel Equipment Technology

Werchan, Matthew

Instructor

Associate of Arts

Welding Technology

Wheelock, David

Instructor

Certificate of Completion

Wind Energy Technology

White, Anneliese

Associate Professor

Month Master of Arts

English

White, Joshua

Instructor

Associate of Applied Science

Diesel Mechanics

Whitworth, Terry

Instructor

Associate of Applied Science

Biomedical Technology

Wiersema, Joshua

Instructor

Certificate of Completion

Welding Technology

Wilfert, Mark

Instructor

Bachelor of Science

Occupational Safety

Wilganowski, Kathryn

Instructor

Associate of Applied Science

Computer Science

Wilkey, Jerry

Instructor

Associate of Applied Science

Industrial Maintenance

Williams, George

Instructor

Associate of Applied Science

Automotive Technology

Williams, Jeffrey

Instructor

Associate of Applied Science

Industrial Systems

Williams, Samuel

Instructor

Associate of Applied Science

Welding Technology

Williamson, Steven

Instructor

Associate of Applied Science

Industrial Maintenance

Williamson, Troy

Associate Professor

Master of Arts

Mathematics

Wilmeth, Carl

Instructor

Associate of Applied Science

Welding Technology

Wimberley, Christa

Instructor

Master of Science

Biology

Wimer, Jacob

Instructor

Alternative Credentialing Experiential

Heating, ventilation & Air Conditioning

Winchester, Timothy

Instructor Alternative Credentialing Experiential

Diesel Equipment Technology

Wines, David

Instructor

Bachelor of Science

Animal Science

Wingate, Jenny

Instructor

Bachelor of Science

Nursing

Withers, Paul

Senior Instructor

Associate of Applied Science

Elec/Comp Cont/Rbtcs

Woodgate, Clifton

Instructor

Alternative Credentialing Experiential

Precision Machining Technology

Wornat, William

Instructor

Certificate of Completion

Master Welder

Wright, Atly

Instructor

Aircraft Pilot Training Technology

Wright, Charli

Instructor

Alternative Credentialing Experiential

Welding Technology

Wyche, Sessia

Instructor

Master of Science

Mathematics

Yezak, Ashley

Instructor

Associate of Applied Science

Welding Technology

Yoder, Billy

Instructor

Associate of Applied Science

Diesel Heavy Truck Mechanic

Zoerner, Patrick

Instructor

Associate of Applied Science

Wind Energy Technology

Zoleta, Miguel

Instructor

Associate of Applied Science

15. Workforce Training & Continuing Education

Automotive Service Technician



- 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:

workforcetraining@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

Credentials: Snap-On Sheet Metal Industry Certification, TSTC Certification of Completion

For more information, please contact:

workforcetraining@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

Tuition & Fees: $750

For more information, please contact:

workforcetraining@tstc.edu

Carpentry Program

- 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 ccupational 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:
workforcetraining@tstc.edu

Certified Cable Wiring Systems Installer

● CLASS DELIVERY: In Person and Online
● CLASS DURATION: 24 Hours In Person and 24 Hours Online
● CLASS SIZE:



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:
workforcetraining@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, and 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.
- 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:
workforcetraining@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 more practical insight into the industry and how the frontline worker fits into that environment.

Campus Location(s): Online

Cost: $2,700

Credentials: MSSC Certified Logistics Technician 4.0 Certification, TSTC Certificate of Completion

For more information, please contact:

workforcetraining@tstc.edu

Certified Nurse Assistant (CNA)



The CNA program is designed to assure the successful certification of the CNA student, by preparing the student in providing optimal patient care. The TSTC Workforce Training & Continuing Education 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

Tuition & Fees: $1,600

For more information, please contact:

workforcetraining@tstc.edu

Certified Production Technician



- CLASS DELIVERY: In Person or 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.

Student learning outcomes:

- 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:

- 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

Cost: $2,500

Credentials: MSSC Certified Production Technician Certification, TSTC Certification of Completion

For more information, please contact:

workforcetraining@tstc.edu

Commercial Driver's License

- CLASS DELIVERY: In Person
- CLASS DURATION: 160 Hours
- CLASS SIZE: 4 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 Harlingen and Fort Bend County 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 driving record, pass a DOT physical and drug screen as required by the Department of Transportation.

Campus Location(s): Abilene*, Fort Bend County,* Harlingen* and Marshall*

* *Current DPS approved testing sites*

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:

workforcetraining@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.
- 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:

workforcetraining@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.
- 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:
workforcetraining@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:

workforcetraining@tstc.edu

Electrical Systems (Operation)

- 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

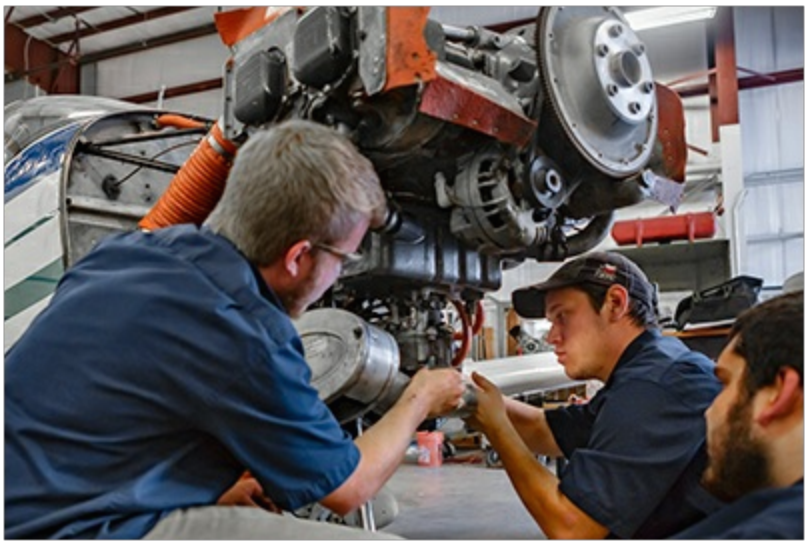
Credentials: SACA Micro-Credential C-201 Electrical Systems 1, TSTC Certification of Completion

For more information, please contact:

workforcetraining@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

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.

- 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:
workforcetraining@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.

Campus Location(s): Abilene and Harlingen

Credentials: TSTC Certification of Completion

For more information, please contact:

workforcetraining@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:

workforcetraining@tstc.edu

FAST Trac Wind Energy Technician

- 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:
workforcetraining@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.

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:
workforcetraining@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 forklift operator and teach you safe practice 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 & Practical Test

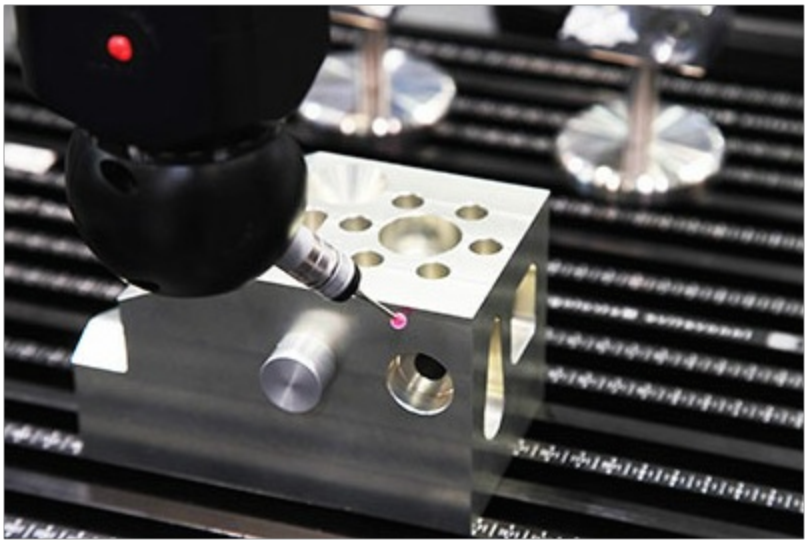
Campus Location(s): All

Credentials: Forklift Operator Certification, TSTC Certification of Completion

For more information, please contact:
workforcetraining@tstc.edu

Geometric Dimensioning and Tolerancing

- CLASS DELIVERY: Online
- CLASS DURATION: 16Hrs
- CLASS SIZE: 0-40



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 bygeometric controls.
- Apply tolerances with bonus when suited to the application and properlyinterpret 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 ofprecedence.
- Create specifications using appropriate geometric tolerances and datum reference frames.

Campus Location(s): Online

Credentials: TSTC Certification of Completion

For more information, please contact:

workforcetraining@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:

workforcetraining@tstc.edu

Heavy Duty Diesel Engine Specialist



- 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:
workforcetraining@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:
workforcetraining@tstc.edu

Hydraulic Systems

● 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:
workforcetraining@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

- 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:
workforcetraining@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

Tuition & Fees: $2,750

For more information, please contact:

workforcetraining@tstc.edu

Industrial Systems Training Program

- 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.

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

Cost: $4,500

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:
workforcetraining@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.

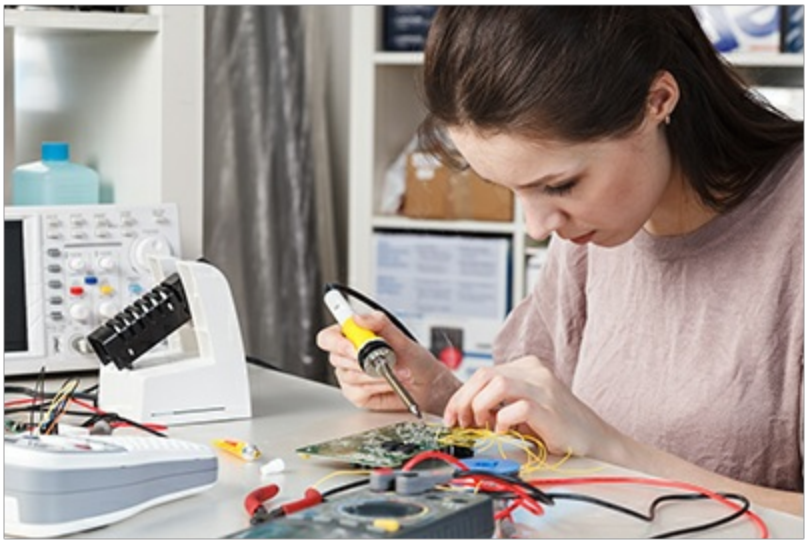
Campus Location(s): East Williamson County

Credentials: TSTC Certificate of Completion

For more information, please contact:

workforcetraining@tstc.edu

IPC J-STD-001 Soldering Certification



- CLASS DELIVERY: In Person
- CLASS DURATION: 20–40 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:
workforcetraining@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.

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
workforcetraining@tstc.edu

Leadership Course Offerings

(through contracted third-party partners)

Active Listening Skills
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 8 Hours
● CLASS SIZE: 8-12



The training session will focus specifically on identifying and understanding the fundamental communication process and requirements to be effective. Emphasis will be placed on developing strong skills, identifying appropriate communication channels, emphasizing the power of listening and understanding the importance of both efficient and effective communication.

Elements in this course include:

- To understand the building blocks of good communication.
- To be able to make use of nonverbal factors to reinforce the intent of your message.
- To understand how to effectively present ideas (designing clear, concise messages.)
- Learning the importance of listening to communicate.
- To be able to identify and overcome barriers to good communication.
- To understand and effectively communicate within a team.

Conflict Resolution
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4 Hours
● CLASS SIZE: 8-12

The training session explores the way supervisors and employees can work together to resolve conflict in the workplace. Practical steps and techniques, such as negotiation, will be included to help facilitate conflict resolution and ways to improve work relationships. Training will include awareness that conflict and difficult situations are a natural part of our lives both in personal and work environments. The focus will be on resolution and an understanding that the goal is finding a peaceful solution.

Elements in this course include:

- Practical ways to produce a solution that all those involved can agree to.
- To address the issue while maintaining sensitivity to the relationship.
- To understand the importance of finding peaceful and workable solutions.
- To develop a model to follow when dealing with difficult situations.
- To develop a model to follow when dealing with difficult situations.
- To explore and develop practical negotiation skills that seek a positive outcome.

Customer Service Skills

● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 16 Hours
● CLASS SIZE: 8-12

The training session will focus specifically on teaching employees the skills and competencies needed to effectively work in the customer service environment. Key to this environment are the areas of communication, listening, interacting with customers and creating a strong service focus. Emphasis will be placed on developing a solid foundation of customer understanding (needs) and how to communicate effectively with customers.

Elements in this course include:

- Trust and rapport building (relationship building.)
- Active listening skills.
- Managing customer expectations.
- Creating customer loyalty.
- Communication etiquette (verbal, telephone and written.)
- Understand and effectively work within a customer service environment.

Fundamentals of Management Workshop
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 8-16 Hours
● CLASS SIZE: 8-12

This seminar provides the framework for organizations to build strength among managers at all levels. Participants learn in what way their management style influences how they manage time, make decisions, approach problems and what they need to do to adapt to the styles of others to bring out the best in each and every employee. Participants receive the tools they need to coach and develop competent, motivated employees by gaining a deeper understanding of individual strengths and challenges.

Elements in this course include:

- Learn one’s personal management style based on this proven model.
- Know priorities, strengths and challenges as it relates to management and the DiSC Model.
- Understand how to direct and delegate by style.
- Create a motivating environment that engages employees.
- Have strategies to adapt communications and address conflict.
- Help individuals work better with their own manager.

Attributes of a Successful Supervisor
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4-8 Hours
● CLASS SIZE: 8-12

Supervisors can empower and energize their teams or they can create frustration, confusion or even paralysis. This seminar provides a way to understand the impact that their behavior has on others, and they discover how others may respond to their style. Participants will learn four different approaches to supervision, discover their unique strengths and challenges and understand how they can be overused. Becoming a new supervisor means added responsibilities, different challenges and unique rewards.

Elements in this course include:

- Understand the supervisor mindset.
- Know the ANT philosophy versus the ENT philosophy of managing and which is better.
- Develop leadership expectations and attitudes.
- Fundamental duties including problem solving, decision making, motivating, delegating, championing change can be incorporated.

- Learn how to communicate effectively with team members and employees.

Communicate with Style
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 8 Hours
● CLASS SIZE: 8-12

This seminar provides an engaging framework for learners to reach further across their organizations and improve effectiveness. This session will create a personalized learning experience to help participants understand and appreciate the different priorities, preferences and values each individual brings to the workplace, and how they can learn to adapt to the style of others. This session delivers a comprehensive, workplace development solution to engage every employee — regardless of title or position, department or function — in building more productive and effective relationships at work.

Elements in this course include:

- Learn about the DiSC model and 4 Quadrants of behavior.
- Understand DiSC in the workplace.
- Know energizers and drainers.
- Recognize strengths and challenges of each communication style.
- Learn how to read the style of other team members.
- Adapt communication style as needed.

Conflict Resolution for Manager and Supervisors
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4-8 Hours
● CLASS SIZE: 8-12

Provides a straightforward approach that helps participants develop the understanding and self-awareness necessary to resolve interpersonal conflict. In addition to learning how to work through conflict on an individual basis, a strong foundation for resolving issues within an entire team is offered. This builds important skills that are necessary for effective communication and teamwork by providing the keys to maintaining a well-balanced workplace by helping individuals understand their behavior in conflict and providing the problem solving skills needed to manage adversity within the team.

Elements in this course include:

- Explore different approaches to conflict.
- Understand how our natural styles influence those approaches.
- Discover the importance of finding common goals in conflict situations.
- Learn to share all perspectives in conflict situations.
- Explore ways to improve ability to generate solutions.
- Discover the benefits of a balanced approach.
- Make better decisions that satisfy the needs of all involved.
- Develop new strategies for working through conflict.

Time Management Skills for Enhanced Effectiveness
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4-8 Hours
● CLASS SIZE: 8-12

Participants will gain an understanding of the relationship of goals, planning, analyzing and prioritizing for time management and identify their personal time wasters. Strategies and tools for improving time management and scheduling are discussed. This training helps people assess their time-management effectiveness and create a personal plan for improving skills in key areas.

Elements in this course include:

- Understand the importance of goals, planning and prioritizing.
- Identify common time wasters.
- Utilize strategies for improving time management.
- Recognize over commitment and how to avoid it.
- Learn to leverage production time.
- Review a proven time management matrix.
- Ability to focus on the Key Result Areas (KRAs.)

Improving Listening Skills
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4-8 Hours
● CLASS SIZE: 8-12

Participants recognize the importance of developing good listening skills by reflecting on their past listening experiences. The five different approaches to listening and the specific characteristics of each approach are discussed. Participants will identify their most natural listening approach, explore their strengths and challenges as listeners and practice modifying their listening approaches to meet the situation. Attendees will create action plans to improve their ability to communicate effectively using the different approaches.

Elements in this course include:

- Know the value of listening in the workplace.
- Understand the difference between hearing and listening.
- Understand listening filters.
- Learn five different listening approaches.
- Learn when to adapt your listening approach.
- Find strategies for improving skills.

Building A Collaborative Team
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4-8 Hours
● CLASS SIZE: 8-12

A high-functioning team makes real progress and everyone is glad to be on the team. This workshop provides the key to building and maintaining peak performing teams by helping individuals identify their strengths and challenges. We will explore how team members can work together more productively by tapping their strengths to contribute to the overall success of the team. Participants will learn the five different roles within teams and the diversity of inherent talents each role brings to the team. They will develop teamwork strategies to help create, advance, refine and implement new ideas or projects. Participants will discover effective ways to balance, integrate and capitalize on different strengths of each member.

Elements in this course include:

- Know the strengths of team members.
- Uncover hidden talents.
- Understand how tasks impacts co-workers and team.
- Match individual strengths with team roles.
- Learn strategies for collaboration and open dialogue.
- Use the Z process for projects and innovation.

Decision Making
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 4-8 Hours
● CLASS SIZE: 8-12

Decision making is a skill and to become better at it requires knowing how to make a decision and practice over time to build confidence. Good and quick decisions require research and not focusing too much on a specific portion of the problem

or issue. Business difficulties can be addressed by exploring the different approaches to making decisions, understanding traps people fall into when making decisions, and learning to use a defined process for better decision making. Participants will understand how personal filters and perception can affect their decision making process, different methods for decision making, how to stop a bad decision before it goes terribly wrong, how to sell and own their decisions and the importance of planning and execution.

Elements in this course include:

- Understand the impact of minor and major decisions.
- Awareness of selective perception and filters.
- Learn a four step process to better decision making at all levels.
- Know the role intuition and risk tolerance play in decisions.
- Gaining alignment for the decision.
- Know how to manage and implement decisions for successful execution.

Reducing Workplace Conflict
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 8 Hours
● CLASS SIZE: 8-12

This seminar provides a straightforward approach that helps participants develop the understanding and self-awareness necessary to resolve interpersonal conflict. In addition to learning how to work through conflict on an individual basis, a strong foundation for resolving issues within an entire team are reviewed. This builds the keys to maintaining a well-balanced workplace by helping individuals understand their behavior in conflict and providing the problem solving skills needed to manage adversity within the team.

Elements in this course include:

- Understand the four approaches to conflict.
- Discover the importance of finding conflict resolution goals.
- Stages of conflict and reactions to intense stress.
- Explore ways to generate effective solutions.
- Develop strategies for a balanced approach to working through conflict.

Problem Solving
● CLASS DELIVERY: In Person or Online
● CLASS DURATION: 8 Hours
● CLASS SIZE: 8-12

Participants learn proven techniques for generating new ideas and increasing their capacity for creativity and innovation. This workshop provides a blueprint for establishing an environment of problem solving and generating new ideas. Participants engage in an interactive, hands-on process where they discover new ways of breaking through mental barriers and overcoming roadblocks to improve performance and unleash creative potential.

Elements in this course include:

- Understand common approaches to solving problems.
- Get employees in the habit of isolating the problem and looking for the cause.
- Avoidance of treating simply the symptoms.
- Give employees a process for problem solving leading to better decisions.
- Use the art of questioning to identify alternate solutions.
- Watching the role our own motivations plays in implementing a solution.
- Utilize team strengths to solve problems.

Campus Location(s): All

Credentials: TSTC Certification of Completion

For more information, please contact:
workforcetraining@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:
workforcetraining@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:
workforcetraining@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:
workforcetraining@tstc.edu

Mechatronics

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
Tuition & Fees: $4,500

For more information, please contact:

workforcetraining@tstc.edu

Microsoft Office Course Offerings

(through contracted third-party partners)

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.

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
● 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:
workforcetraining@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:
workforcetraining@tstc.edu

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:
workforcetraining@tstc.edu

NCCER Electrical Level 1

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.
Tuition & Fees: $4,500.
Materials per student: $500.
Minimum of six students to make the course.
Books, tools and labs included.
Certifications: OSHA 10, Forklift, CPR.

For more information, please contact:

workforcetraining@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:
workforcetraining@tstc.edu

NCCER Maritime Welding Level 1 Program

- 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

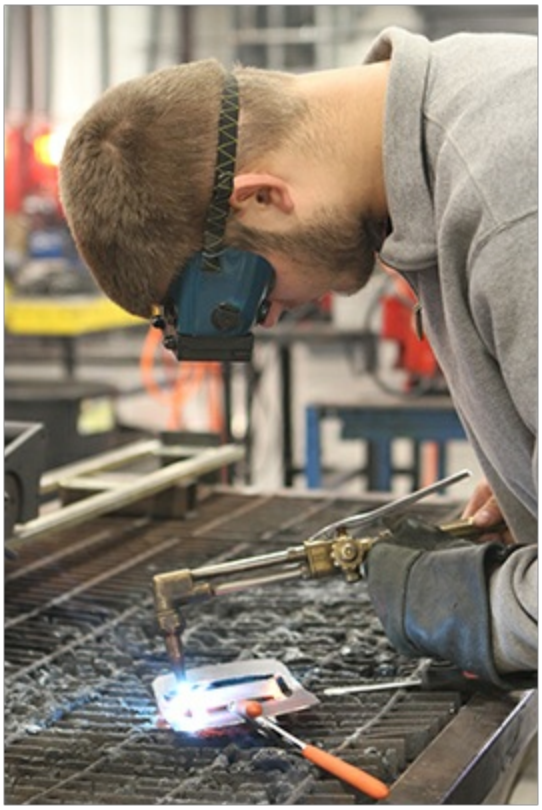
Credentials: NCCER Maritime Industry Fundamentals Certification, NCCER Maritime Welding Level I Craft Certification, TSTC Certification of Completion

For more information, please contact:
workforcetraining@tstc.edu

NCCER Welding Level 1 Program

● 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:
workforcetraining@tstc.edu

NFPA 70E ARC Flash

● 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:
workforcetraining@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

Credentials: OSHA 10 Certification, TSTC Certification of Completion

For more information, please contact:
workforcetraining@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:
workforcetraining@tstc.edu

OSHA 30 for Construction Industry

● 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 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:
workforcetraining@tstc.edu

OSHA 30 for General Industry

● 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:
workforcetraining@tstc.edu

Patient Care Technician

- 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:

workforcetraining@tstc.edu

Phlebotomy Technician

- CLASS DELIVERY: In Person
- CLASS DURATION: 86 Hours
- CLASS SIZE: 10-16



The Phlebotomy 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.

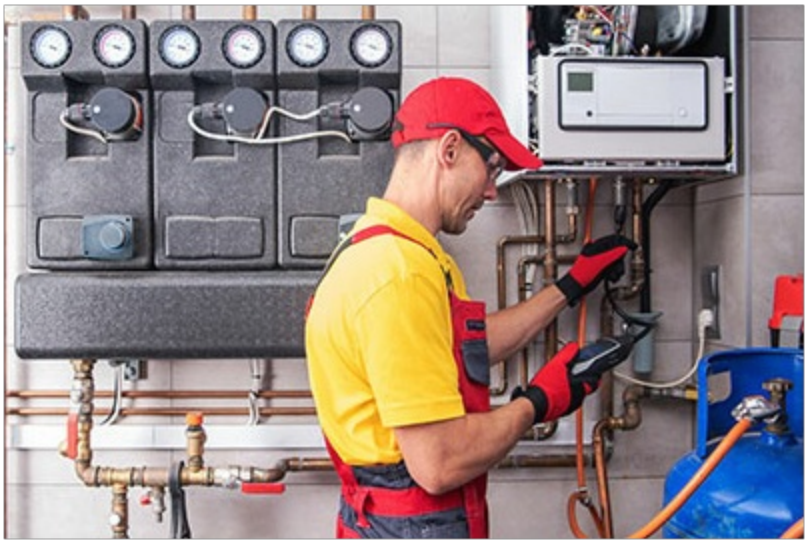
Campus Location(s): Abilene, Breckenridge, Brownwood, Harlingen and Sweetwater

Credentials: First Aid/CPR, TSTC Certification of Completion

For more information, please contact:
workforcetraining@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:
workforcetraining@tstc.edu

Pneumatic Systems

● 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:
workforcetraining@tstc.edu

Professional Bus Driver Training

● CLASS DELIVERY: In Person
● CLASS DURATION: 120 Hours
● CLASS SIZE: 24



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 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): 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

Programmable Controller Systems (PLC)

- 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:
workforcetraining@tstc.edu

Rigging Systems



- 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:
workforcetraining@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
● 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

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' 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:
workforcetraining@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:
workforcetraining@tstc.edu

Variable Frequency Drive Systems

● 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:
workforcetraining@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:

workforcetraining@tstc.edu

16. Essential Program Functions

01. What are Essential Program Functions and Technical Standards?

Essential functions are the required tasks or training elements within a programthat must be performed in order to meet predetermined learning outcomes.

Technical standards are the abilities and characteristics necessary to perform the essential functions of a program, safely and effectively, as well as the defined expectations for behavior, professionalism, and soft skills.

Students are expected to verify their ability to perform the technical standards of their program,***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, cause undue hardship, or produce a direct threat to the safety of the student.

Any student who believes they may not meet the technical standards listed may contact the**Access and Learning Accommodations** (adarequest@tstc.edu) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

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
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 of 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.
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 were 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.
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, 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, 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.
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.
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.

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 client or student.

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, marihuana, 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

(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.
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.	
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.	
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.	

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.	

The Aircraft Pilot Department is committed to ensuring educational access to all students and promotes full participation in the program course requirements. Qualified students with disabilities are encouraged to access these services by contacting the Access and Learning Accommodations office to discuss their needs for accommodations. Reasonable accommodation will be provided until appropriate verification from the Access and Learning Accommodations office has been provided.

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.

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.

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.

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 client or student.

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

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.

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.

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.

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 your body, arms and/or legs. • Coordinate the movement of your arms, legs and torso together when the whole body is in motion. • Keep or regain your body balance or stay upright when in an unstable position. • Exert yourself 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 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.

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.

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 vehicle, equipment or student.

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 & 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.
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 & 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 in speaking 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 & 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 riveting, drilling & hole location in avionics structural 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 & 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 fabrications to aircrafts.
Written Comprehension	The ability to read and understand information and ideas presented in writing.	• Able to read service & repair instruction manuals in avionics & aircrafts 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 from you, or to judge the distance between you 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 & harshness identification require the ability to determine where sound originated.
Speech Clarity	The ability to speak clearly so others can understand you.	• 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 wiring color codes &
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 & 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 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.	• Ability to time movements to prevent equipment and or property damage in aircrafts & 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.
Dynamic Flexibility	The ability to quickly and repeatedly bend, stretch, twist or reach out with your 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 your 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 your 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 yourself physically over long periods of time without getting winded or out of breath.	• Performing avionic 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 your 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, & mobile equipment.
Other	The ability to work in confined spaces that require significant flexibility.	• Ability to be in confined spaces to perform work on avionic systems.

The Avionics Department is committed to ensuring educational access to all students and promotes full participation in the program course requirements. Qualified students with disabilities are encouraged to access these services by contacting the Access and Learning Accommodations office to discuss their needs for accommodations. Reasonable accommodation will be provided until appropriate verification from the Access and Learning Accommodations office has been provided. To contact the Access and Learning Accommodations office, email adarequest@tstc.edu.

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 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 in speaking 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.
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.

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,

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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

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.

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).
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.

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.

Texas State Technical College is invested in full compliance with the Americans with Disabilities Act (ADA). Support Services is part of Student Services and is located in the EK Building on the Harlingen campus. For detailed information or to request accommodations, visit Support Services. An appointment is recommended prior to enrollment in order to discuss any special concerns.

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.

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. • Balances 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. from 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.

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.

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 as required 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 as required 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.

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 others.

In compliance with the Americans with Disabilities Act Amendments Act of 2008, Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act, Texas State Technical College is committed to ensuring educational access to its students and promotes full participation in its programs, services and course requirements. Qualified students with disabilities are encouraged to access these services by contacting the Access and Learning Accommodations office to discuss their needs for accommodations. Students reserve the right to request services at any time during the semester, however, instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Access and Learning Accommodations office has been provided. For information, please contact the Access and Learning Accommodations office in a timely manner. Statewide Contact Information: Email: adarequest@tstc.edu Phone #: 254.867.3842

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.

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.
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.

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.

Chemical Dependency Counseling

CDC TECHNICAL STANDARDS

Chemical Dependency Counseling programs have established technical standards to ensure that students have the abilities required to function in the classroom and counseling environment. 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).
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.

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 client or student.

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.

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.

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.

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.
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
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.
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.

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.

Computer Science

COS TECHNICAL STANDARDS

All students in the Associate in Computer Science 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

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.

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.

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.

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, 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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

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.

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 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.

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 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, cooking methods, whisking, dicing and piping skills.
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).

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. • Tactile judgment to apply appropriate techniques for tenderizing meat, cut, 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. • Taking responsibility for errors in the kitchen contributes to accountability and continuous improvement. • Exercise patience when learning new culinary techniques and 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.

In the case of an otherwise qualified individual with a documented disability, appropriate and reasonable accommodations will be made unless to do so would fundamentally alter the essential training elements, cause undue hardship or produce a direct threat to the safety of the student.

Cybersecurity

CYS TECHNICAL STANDARDS

All students in the Cybersecurity 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	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

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

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.

Dental Hygiene

DHY TECHNICAL STANDARDS

The Dental Hygiene profession, and industry standards, requires 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

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.

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. • Monitor vital signs and hears the heart beats 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.

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.

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 client or student. For detailed information or to request accommodations, visit the Support Services Office located at the EK Building on the Harlingen campusor contact their office at (956) 364-4520.

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 iInsurances 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
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.

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 yourself 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 their 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.

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 Detecting Temperature Changes	• 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. • The ability to feel for excessive heat in parts can be an indicator of malfunction or the need for maintenance.
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.

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.

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 vehicle, equipment or student.

Digital Media Design

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 environment. • 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.
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.

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.

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
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 and 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.
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.

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.

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.
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 you can 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.
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.

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.

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, 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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

Electrical Lineworker & Management Technology

ELW TECHNICAL STANDARDS

All students in the Electrical Lineworker 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	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.	• Solves personal and interpersonal problems. • Minimizes stress and conflict. • Balances 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.
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.

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 client or student.

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.

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 lbs. 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.
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.

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 client or student.

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.

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.
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.
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.
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.

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 client or student.

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.

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
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 theStudent 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 in speaking so others will understand. • Speak clearly so others can understand you. • 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.
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.

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,

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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

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 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.
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.

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.
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.

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.

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, 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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

Industrial Systems

IST TECHNICAL STANDARDS

All students in the Industrial Systems 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 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 3 dimensional drawing or image.

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 you. 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 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.

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.
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 require 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. The ability to handle stressful troubleshooting scenarios.

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.

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.
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 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.

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.

Mathematics

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.
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, 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) 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.
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
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.
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
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.

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 client or student.

Additional Admission Requirements for LVN to ADN Transition Program:

- Driver’s License
- 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)

Occupational Safety and Environmental Compliance Technology

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.
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.

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.

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
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 in speaking so others will 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.
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 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.

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, 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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

Plumbing & Pipefitting Technology

PLB TECHNICAL STANDARDS

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.
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 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.

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 client or student.

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.
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.
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.
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.

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, 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) office to discuss whether reasonable accommodations can be made without fundamental alteration to the requirements of the program.

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, 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.
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.

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.

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.
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.
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.
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 Constructionprograms 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 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.
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 Plumbing 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 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.

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 client or student.

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.
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.

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.

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 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.
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.

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 client or student.

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.
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.

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.

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.

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.

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.

Wind Energy Technology

WET 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
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.
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).	
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 instruction and directions.
Oral Expression	The ability to communicate information and ideas in speaking 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.

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.	
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).	• The ability to troubleshoot a panel using vocal and tactile abilities simultaniously.
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).	

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.	
Speech Clarity	The ability to speak clearly so others can understand you.	
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.	
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.	
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.	
Reaction Time	The ability to quickly respond (with the hand, finger or foot) to a signal (sound, light, picture) when it appears.	

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.	
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.	
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.	• 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.	

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Academic Core Curriculum - General Academic - Core Curriculum Completion

Locations

Harlingen

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

- 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 Lab 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)
    - 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)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Aircraft Airframe Technology - Aviation Maintenance Technology - Airframe AAS

Locations

Waco
Harlingen
Abilene

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)

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)
  - 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

Aircraft Airframe Technology - Aviation Maintenance Technology - Airframe CER1

Locations

Waco
Harlingen
Abilene

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

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 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)

Aircraft Pilot Training Technology

Description

With aviation experience dating back more than 50 years, TSTC has been a proud provider of professional pilots throughout the aviation industry. Our students get a first-class education with hands-on training in the world’s most popular training aircraft along with classroom and one-on-one ground instruction with industry professionals. Students spend most of their time learning by doing while training to become industry professionals. All Aircraft Pilot Training students must submit an application to the program after being accepted as TSTC students. The application includes providing evidence of a Class II flight physical and a current Class II medical record. All new students must successfully complete a Texas Success Initiative evaluation (or equivalent) and any necessary remedial academic courses before registering for classes in this program. Flight costs vary per term and are subject to change due to variables such as fluctuating fuel and flight-time costs.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Aircraft Pilot Training Technology - Aircraft Pilot Training Technology - Airplane AAS

Locations

Waco

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
13 Total Credits

- Complete the following:
  - AIRP1343 - Aerodynamics (3)
  - AIRP2355 - Propulsion Systems (3)
  - AIRP1345 - Aviation Safety (3)
  - AIRP1175 - Intermediate Flight (1)
  - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3
12 Total Credits

- Complete all of the following
  - Complete the following:
    - AIRP1451 - Instrument Ground School (4)
    - AIRP2250 - Instrument Flight (2)
    - ACGM3GED - Gen Ed Elective (3)
  - Complete at least 3 credits from the following:
    - ENGL1301 - Composition I (3)
    - ENGL2311 - Technical & Business Writing (3)

Semester 4
11 Total Credits

- Complete the following:
  - AIRP2357 - Turbine Aircraft Systems Ground School (3)
  - AIRP2337 - Commercial Ground School (3)
  - AIRP2239 - Commercial Flight (2)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5
12 Total Credits

- Complete all of the following
  - Complete 1 of the following
    - Complete the following:
      - AIRP2236 - Certified Flight Instructor - Flight (2)
    - Complete the following:
      - AIRP2251 - Multiengine Flight (2)
  - Complete the following:
    - AVIM2337 - Aviation Law (3)
    - AIRP2449 - Instructor Ground School (4)
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

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

Program Requirements

Semester 1
19 Total Credits

- Complete the following:
  - AIRP1301 - Air Navigation (3)
  - AIRP1307 - Aviation Meteorology (3)
  - MRKG1301 - Customer Relationship Management (3)
  - AIRP1417 - Private Pilot Ground School (4)
  - AIRP1345 - Aviation Safety (3)
  - AVIM1391 - Special Topics in Aviation Management (3)

Degree Plan Credits **19**

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Aircraft Powerplant Technology - Aviation Maintenance Technology - Powerplant AAS

Locations

Waco
Harlingen
Abilene

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)

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)
  - 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

Aircraft Powerplant Technology - Aviation Maintenance Technology - Powerplant CER2

Locations

Waco
Harlingen
Abilene

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)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Architectural & Civil Drafting Technology - Architectural & Civil Drafting Technology AAS

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Program Requirements

Semester 1
9 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
    - 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 **57**

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 Prerequisite(s): DFTG 2328
- DFTG 1393 Prerequisite(s): DFTG 2321
- DFTG 2312, DFTG 2331, DFTG 1392 Prerequisite(s): DFTG 2328

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)

Architectural & Civil Drafting Technology - Architectural & Civil Drafting Technology CER1

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Program Requirements

Semester 1
6 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
    - 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 **15**

Capstone

- Complete the following:
  - DFTG1317 - Architectural Drafting - Residential (3)

Pre/Corequisites

- ARCE 1303, DFTG1330 Prerequisite(s): 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

Program Requirements

Semester 1
6 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
    - 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 **33**

Capstone

- Complete the following:
  - ARCE1352 - Structural Drafting (3)

Pre/Corequisites

- ARCE 1303, DFTG 1330 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 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Architectural Design & Engineering - Architectural Design & Engineering Graphics Technology - Basic Architectural/Mechanical Drafting (AM) OSA

Locations

Online - TSTC Connect
Harlingen
Waco
Marshall
North Texas

Program Requirements

Semester 1
6 Total Credits

- Complete the following:
  - Course Not Found
  - DFTG1345 - Parametric Modeling and Design (3)
  - ARCE1321 - Architectural Illustration (3)

Degree Plan Credits **6**

Architectural Design & Engineering - Architectural Design & Engineering Technology - Graphics CER1

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Program Requirements

Semester 1
6 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
  - 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 **15**

Capstone

- Complete the following:
  - DFTG1333 - Mechanical Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- ARCE 1321 Prerequisite(s): DFTG 1309 (Prerequisite or Corequisite)
- DFTG 1333, DFTG 1330 Prerequisite(s): DFTG 1309

Architectural Design & Engineering - Architectural Design & Engineering Technology AAS

Locations

Online - TSTC Connect
Harlingen
Waco
Marshall
North Texas

Program Requirements

Semester 1
9 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
  - 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:
    - ARCE1352 - Structural Drafting (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)
  - Complete the following:
    - DFTG2357 - Advanced Technologies in Pipe Design and Drafting (3)
  - Complete the following:
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
    - ARCE1352 - Structural Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- ARCE 1321 Prerequisite(s): DFTG 1309 (Prerequisite or Corequisite)
- DFTG 1333, DFTG 1330, DFTG 2386, DFTG 2357 Prerequisite(s): DFTG 1309
- 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

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

Program Requirements

Semester 1
6 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
  - 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 **33**

Capstone

- Complete the following:
  - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- ARCE 1321 Prerequisite(s): DFTG 1309 (Prerequisite or Corequisite)
- DFTG 1333, DFTG 1330 Prerequisite(s): DFTG 1309
- 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

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 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 the final grade of the prerequisite course(s) in progress have been evaluated.

Science prerequisites must not be older than 10 years.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.

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.

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Associate Degree in Nursing - Nursing AAS

Locations

Harlingen
Sweetwater

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)
  - 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)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Auto Collision & Management Technology - Auto Collision & Management Technology - Refinishing AAS

Locations

Waco
Harlingen

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 1431, ABDR 1458 Prerequisite(s): ABDR 1371
- ABDR 2371, ABDR2449, ABDR 2551 Prerequisite(s): ABDR 1458, ABDR 1431
- ABDR 2270, ABDR 2281, ABDR 2453 Prerequisite(s): ABDR 2449, ABDR 2551
- ABDR 2357 Prerequisite(s): ABDR 2255

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)
  - 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

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 1431, ABDR 1458 Prerequisite(s): ABDR 1371

Auto Collision & Management Technology - Auto Collision & Management Technology - Refinishing CER2

Locations

Waco
Harlingen

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 1431, ABDR 1458 Prerequisite(s): ABDR 1371
- ABDR 2371, ABDR 2449, ABDR 2551 Prerequisite(s): ABDR 1458, ABDR 1431

Auto Collision & Management Technology - Auto Collision & Management Technology - Repair CO-OP AAS

Locations

Waco

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

- 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)
  - ABDR2502 - Auto Body Mechanical and Electrical Service (5)

Pre/Corequisites

- ABDR 1307, ABDR 2435 Prerequisite(s): ABDR 1215
- ABDR 2447 Prerequisite(s): ABDR 1307
- ABDR 2359, ABDR 2502 Prerequisite(s): ABDR 1307, ABDR 1419, ABDR 2435

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)
  - 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

Locations

Waco
Harlingen

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 - Front and Rear Wheel Alignment (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**

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 2435 Prerequisite(s): ABDR 1215
- ABDR 1323 Prerequisite(s): ABDR 2435
- 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

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)
  - 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)

Auto Collision & Management Technology - Auto Collision & Management Technology - Repair CER1

Locations

Waco
Harlingen

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 - Front and Rear Wheel Alignment (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 2435 Prerequisite(s): ABDR 1215
- ABDR 1323 Prerequisite(s): ABDR 2435

Auto Collision & Management Technology - Auto Collision & Management Technology - Repair CER2

Locations

Waco
Harlingen

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 - Front and Rear Wheel Alignment (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)

Pre/Corequisites

- ABDR 1307, ABDR 2435 Prerequisite(s): ABDR 1215
- ABDR 1323 Prerequisite(s): ABDR 2435
- 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

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Automation & Controls Technology - Automation & Controls Technology AAS

Locations

Marshall

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - AACT1371 - Electronics Fundamentals in Automation (3)
  - AACT1372 - Automation Safety and Compliance (3)
  - AACT1373 - Administrative Skills for Technicians (3)
  - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 2
12 Total Credits

- Complete the following:
  - AACT1374 - Electronics Fundamentals in Automation II (3)
  - AACT1375 - Principles of Motion, Measurement and Position I (3)
  - AACT1376 - Intro to Process Control Devices (3)
  - ENGL1301 - Composition I (3)

Semester 3
12 Total Credits

- Complete the following:
  - AACT2371 - Automation Control Systems Interfacing I (3)
  - AACT2376 - PLC Automation I (3)
  - INTC1343 - Application of Industrial Automatic Controls (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
12 Total Credits

- Complete the following:
  - AACT2374 - PLC Automation II (3)
  - AACT2372 - Automation Control Systems Interfacing II (3)
  - AACT2375 - Principles of Motion, Measurement and Position II (3)
  - INTC2339 - Instrument and Control Review (3)

Semester 5
12 Total Credits

- Complete the following:
  - AACT2373 - Factory I/O (3)
  - INTC2330 - Instrumentation Systems Troubleshooting (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - AACT2373 - Factory I/O (3)

Pre/Corequisites

- AACT 1374, AACT 1375, AACT 1376 Prerequisite(s): AACT 1371
- AACT 2371 Prerequisite(s): AACT 1376
- AACT 2376 Prerequisite(s): AACT 1375
- AACT 2374 Prerequisite(s): AACT 2376
- AACT 2372 Prerequisite(s): AACT 2371
- AACT 2375 Prerequisite(s): AACT 2371
- INTC 2339 Prerequisite(s): INTC 1343
- AACT 2373 prerequisite(s): AACT 2376
- INTC 2330 Prerequisite(s): INTC 1343

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:
  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)
    - 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)

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, spending 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Automotive Technology - Automotive Technology - Chrysler CER2

Locations

Waco

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)

Semester 3 First Session
1 Total Credits

- Complete the following:
  - AUMT2188 - Internship (or Field Experience) - 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 (or Field Experience) - 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 - Automotive 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 - Automotive Automatic Transmission and Transaxle (4)

Pre/Corequisites

- AUMT 2337 Prerequisite(s): AUMT 2321 (Prerequisite or Corequisite)
- AUMT 1345 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305
- AUMT 2189, AUMT 2434, AUMT 2425 Prerequisite(s): AUMT 2417 (Prerequisite or Corequisite), AUMT 2321
- AUMT 2417 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)
- AUMT 1380 Prerequisite(s): AUMT 1310 (Prerequisite or Corequisite)

Automotive Technology - Automotive Technology - Maintenance & Light Repair CER1

Locations

Harlingen
Sweetwater

Program Requirements

Semester 1
10 Total Credits

- Complete the following:
    - AUMT1305 - Introduction to Automotive Technology (3)
    - AUMT1307 - Automotive Electrical Systems (3)
    - AUMT1416 - Automotive Suspension and Steering Systems (4)

Semester 2
10 Total Credits

- Complete the following:
    - AUMT1310 - Automotive Brake Systems (3)
    - AUMT1345 - Automotive Climate Control Systems (3)
    - AUMT1419 - Automotive Engine Repair (4)

Semester 3
11 Total Credits

- Complete the following:
    - AUMT2413 - Automotive Drive Train and Axles (4)
    - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
    - AUMT2417 - Automotive Engine Performance Analysis I (4)

Degree Plan Credits **31**

Capstone

- Complete the following:
    - AUMT2417 - Automotive Engine Performance Analysis I (4)

Pre/Corequisites

- AUMT 1345 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305
- AUMT 2417 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)

Automotive Technology - Automotive Technology - Tesla START ATC

Locations

Waco

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

Program Requirements

Semester 1
13 Total Credits

- Complete all of the following
  - Complete the following:
    - AUMT1305 - Introduction to Automotive Technology (3)
    - AUMT1307 - Automotive Electrical Systems (3)
    - AUMT1416 - Automotive Suspension and Steering Systems (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:
  - AUMT1310 - Automotive Brake Systems (3)
  - AUMT1345 - Automotive Climate Control Systems (3)
  - AUMT1419 - Automotive Engine Repair (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:
  - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
  - AUMT2413 - Automotive Drive Train and Axles (4)
  - AUMT2417 - Automotive Engine Performance Analysis I (4)
  - ACGM3GED - Gen Ed Elective (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
14 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - AUMT2302 - Automotive Compression Ignition Engines & Fuel Systems (3)
    - AUMT2328 - Automotive Service (3)
    - AUMT2307 - Hybrid Systems Diagnostics (3)
    - AUMT2380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician (3)
  - Complete the following:
    - AUMT2337 - Automotive Electronics (3)
    - AUMT2425 - Automotive Automatic Transmission and Transaxle (4)
    - AUMT2434 - Automotive Engine Performance Analysis II (4)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - AUMT2337 - Automotive Electronics (3)
  - AUMT2425 - Automotive Automatic Transmission and Transaxle (4)
  - AUMT2434 - Automotive Engine Performance Analysis II (4)

Pre/Corequisites

- AUMT 1345 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 1419 Prerequisite(s): AUMT 1305
- AUMT 2417 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)
- AUMT 2302 Prerequisite(s): AUMT 2417
- AUMT 2307 Prerequisite(s):AUMT 1307, AUMT 2417, AUMT 2321
- AUMT 2328, AUMT 2380 Prerequisite(s): AUMT 2413, AUMT 2417, AUMT 2321
- AUMT 2337 Prerequisite(s): AUMT 2321 (Prerequisite or Corequisite)
- AUMT 2425, AUMT 2434 Prerequisite(s): AUMT 2417 (Prerequisite or Corequisite), AUMT 2321

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)
  - 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

Locations

Waco
Harlingen
Sweetwater

Program Requirements

Semester 1
10 Total Credits

- Complete the following:
  - AUMT1305 - Introduction to Automotive Technology (3)
  - AUMT1307 - Automotive Electrical Systems (3)
  - AUMT1416 - Automotive Suspension and Steering Systems (4)

Semester 2
10 Total Credits

- Complete the following:
  - AUMT1310 - Automotive Brake Systems (3)
  - AUMT1345 - Automotive Climate Control Systems (3)
  - AUMT1419 - Automotive Engine Repair (4)

Semester 3
11 Total Credits

- Complete the following:
  - AUMT2321 - Automotive Electrical Diagnosis and Repair (3)
  - AUMT2413 - Automotive Drive Train and Axles (4)
  - AUMT2417 - Automotive Engine Performance Analysis I (4)

Semester 4
14 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - AUMT2302 - Automotive Compression Ignition Engines & Fuel Systems (3)
    - AUMT2328 - Automotive Service (3)
    - AUMT2357 - Automotive Alternative Fuels (3)
    - AUMT2380 - Cooperative Education - Automobile/Automotive Mechanics Technology/Technician (3)
  - Complete the following:
    - AUMT2337 - Automotive Electronics (3)
    - AUMT2425 - Automotive Automatic Transmission and Transaxle (4)
    - AUMT2434 - Automotive Engine Performance Analysis II (4)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - AUMT2337 - Automotive Electronics (3)
  - AUMT2425 - Automotive Automatic Transmission and Transaxle (4)
  - AUMT2434 - Automotive Engine Performance Analysis II (4)

Pre/Corequisites

- AUMT 1345 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307 (Prerequisite or Corequisite)
- AUMT 2417 Prerequisite(s): AUMT 1201 or AUMT 1305, AUMT 1307, AUMT 1419 (Prerequisite or Corequisite)
- AUMT 2302 Prerequisite(s): AUMT 2417
- AUMT 2328, AUMT 2380 Prerequisite(s): AUMT 2413, AUMT 2417, AUMT 2321
- AUMT 2337 Prerequisite(s): AUMT 2321 (Prerequisite or Corequisite)
- AUMT 2425, 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Avionics Technology - Avionics Technology - Electronic Control Systems (AM) OSA

Locations

Waco

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)
  - AVNC1353 - Operational Testing of Aviation Electronic Systems (3)

Degree Plan Credits **9**

Avionics Technology - Avionics Technology - Installation Technician CER1

Locations

Waco

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, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 or CETT 1305
- CSIR 2301, CSIR 1355 Prerequisite(s): IEIR 1371 or CETT 1302

Avionics Technology - Avionics Technology AAS

Locations

Waco

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)

Pre/Corequisites

- CETT 1325 Prerequisite(s): CETT 1302, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 or CETT 1305
- 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

Biology

Description

The Associate of Science degree in Biology provides the opportunity to complete the core curriculum of general education courses along with additional courses in the field of biology. With this degree, you can work in various fields of biology and health care, or transfer your credits to a four-year institution in order to further your education beyond an Associate of Science degree. The biology courses offered can also provide prerequisite coursework for various allied health programs including the nursing programs.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Biology - Biology AS

Locations

Harlingen

Program Requirements

Semester 1
13 Total Credits

- Complete the following:
  - ENGL1301 - Composition I (3)
  - HIST1301 - United States History I (3)
  - BIOL1306 - Biology for Science Majors I (lecture) (3)
  - BIOL1106 - Biology for Science Majors Laboratory I (lab) (1)
  - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2
10 Total Credits

- Complete the following:
  - ENGL1302 - Composition II (3)
  - HIST1302 - United States History II (3)
  - Course Not Found
  - BIOL1307 - Biology for Science Majors II (3)
  - BIOL1107 - Biology for Science Majors II Lab (1)

Semester 3
10 Total Credits

- Complete the following:
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - ACGM3CAR - Creative Arts Elective (3)
  - CHEM1311 - General Chemistry I (lecture) (3)
  - CHEM1111 - General Chemistry I (lab) (1)
  - Course Not Found

Semester 4
6 Total Credits

- Complete the following:
  - GOVT2305 - Federal Government (Federal constitution & topics) (3)
  - ACGM3LPC - Language, Philosophy and Culture Elective (3)
  - Course Not Found
  - Course Not Found

Semester 5
7 Total Credits

- Complete the following:
  - GOVT2306 - Texas Government (Texas constitution & topics) (3)
  - BIOL2321 - Microbiology for Science Majors (3)
  - BIOL2121 - Microbiology for Science Majors Lab (1)

Degree Plan Credits **46**

Capstone

- Complete the following:
  - BIOL2321 - Microbiology for Science Majors (3)
  - BIOL2121 - Microbiology for Science Majors Lab (1)

Pre/Corequisites

- BIOL 1306 Prerequisite(s): MATH 1314 College Algebra (3 SCH version) recommended, or concurrent enrollment in higher-level mathematics recommended
- BIOL 1106 Prerequisite(s): BIOL 1306 (Prerequisite or Corequisite)
- ENGL 1302 Prerequisite(s): ENGL 1301
- BIOL1307 Prerequisite(s): MATH 1314 College Algebra (3 SCH version) Successful completion of College Algebra or concurrent enrollment in higher-level mathematics is recommended.
- BIOL1107 Prerequisite(s): BIOL 1307 (Prerequisite or Corequisite)
- CHEM1311 Prerequisite(s): MATH 1314 College Algebra (3 SCH version) or equivalent academic preparation. CHEM 1111 General Chemistry I (Corequisite) High school chemistry is strongly recommended
- CHEM1111 Prerequisite(s): CHEM 1311 General Chemistry I (Corequisite)
- CHEM1111 Prerequisite(s): CHEM 1311 General Chemistry I (Corequisite)
- BIOL2121 Prerequisite(s): BIOL 2121 - BIOL 2321 (Prerequisite or Corequisite)

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:
  Creative Arts Elective
  - ARTS1301 - Art Appreciation (3)
  - MUSI1306 - Music Appreciation (3)
- Complete at least 8 credits from the following course set:
  Biology 4 Credit Approved Elective List 1
  - BIOL1111 - General Botany Lab (1)
  - BIOL1311 - General Botany (3)
  - BIOL1113 - General Zoology (lab) (1)
  - BIOL1313 - General Zoology (lecture) (3)
  - BIOL2101 - Anatomy & Physiology I (lab) (1)
  - BIOL2301 - Anatomy & Physiology I (lecture) (3)
  - BIOL2102 - Anatomy & Physiology II (lab) (1)
  - BIOL2302 - Anatomy & Physiology II (lecture) (3)
  - BIOL2306 - Environmental Biology (lecture) (3)
  - BIOL2106 - Environmental Biology (lab) (1)
  - BIOL2116 - Genetics (lab) (1)
  - BIOL2316 - Genetics (lecture) (3)
  - CHEM1112 - General Chemistry II (lab) (1)
  - CHEM1312 - General Chemistry II (lecture) (3)
  - PHYS1101 - College Physics Laboratory I (1)
  - PHYS1301 - College Physics I (lecture) (3)
  - PHYS1102 - College Physics Lab II (1)
  - PHYS1302 - College Physics II (lecture) (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 3 credits from the following course set:
  Biology 3 Credit Approved Elective List 2
  - ANTH2346 - General Anthropology (3)
  - BIOL1322 - Nutrition & Diet Therapy (3)
  - GEOG1303 - World Regional Geography (3)
  - HIST2321 - World Civilizations I (3)
  - MATH1316 - Plane Trigonometry (3)
  - MATH1342 - Elementary Statistical Methods (3)
  - PSYC2301 - General Psychology (3)
  - PSYC2314 - Lifespan Growth & Development (3)
  - SOCI1301 - Introduction to Sociology (3)
  - MATH2312 - Pre-Calculus Math (3 SCH version) (3)

Biomedical Equipment Technology

Description

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, medical imaging equipment (X-rays, CAT scanners and ultrasound equipment), voice-controlled operating tables and electric wheelchairs, so the industry needs sharp, professional technicians that can inspect, calibrate, maintain, troubleshoot and repair this critical medical equipment. Students in the program gain hands-on experience working with everything from the simplest suction pump to the most sophisticated laboratory equipment, cardiac monitors, and X-ray and ultrasound equipment.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Biomedical Equipment Technology - Biomedical Equipment Technology - Equipment & Diagnostics (AM) OSA

Locations

Harlingen
Waco

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - BIOM1270 - Shop Skills for Biomedical Equipment Technicians (2)
  - BIOM1309 - Applied Biomedical Equipment Technology (3)
  - BIOM1373 - Medical Software and Hardware (3)
  - BIOM1101 - Biomedical Equipment Technology (1)

Degree Plan Credits **9**

Biomedical Equipment Technology - Biomedical Equipment Technology - Medical Imaging AAS

Locations

Waco

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**

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, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 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 Lab(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 Lab 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:
  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)

Biomedical Equipment Technology - Biomedical Equipment Technology AAS

Locations

Waco
Harlingen

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)
    - 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, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 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)
    - 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 Lab(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 Lab 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:
  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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Building Construction Technology - Building Construction Technology - Craftsman CER1

Locations

Waco
Harlingen

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - CNBT1300 - Residential and Light Commercial Blueprint Reading (3)
  - CNBT1316 - Construction Technology I (3)
  - OSHT1307 - Construction Site Safety and Health (3)
  - CNBT1302 - Mechanical, Electrical & Plumbing Systems in Construction I (3)

Semester 2
14 Total Credits

- Complete the following:
  - CNBT1313 - Concrete I (3)
  - CNBT1315 - Field Engineering I (3)
  - CNBT1450 - Construction Technology II (4)
  - CNBT1453 - Construction Technology III (4)

Semester 3
6 Total Credits

- Complete at least 6 credits from the following:
  - CNBT1680 - Cooperative Education - Construction Engineering Technology/Technician (6)
  - CNBT1346 - Construction Estimating I (3)
  - CNBT2439 - Construction Technology IV (4)

Degree Plan Credits **32**

Capstone

- Complete all of the following
  - Complete 1 of the following
    - Complete the following:
      - CNBT1680 - Cooperative Education - Construction Engineering Technology/Technician (6)
    - Complete the following:
      - CNBT1346 - Construction Estimating I (3)
  - 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

Waco
Harlingen

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - CNBT1300 - Residential and Light Commercial Blueprint Reading (3)
  - CNBT1316 - Construction Technology I (3)
  - OSHT1307 - Construction Site Safety and Health (3)
  - CNBT1302 - Mechanical, Electrical & Plumbing Systems in Construction I (3)

Semester 2
13 Total Credits

- Complete the following:
  - CNBT1313 - Concrete I (3)
  - CNBT1315 - Field Engineering I (3)
  - CNBT1342 - Building Codes and Inspections (3)
  - CNBT1450 - Construction Technology II (4)

Semester 3
13 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)

Semester 4
13 Total Credits

- Complete all of the following
  - Complete the following:
    - CNBT1359 - Project Scheduling (3)
    - CNBT2439 - Construction Technology IV (4)
    - 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:
  - CNBT2344 - Construction Management II (3)
  - ACGM3GED - Gen Ed Elective (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - CNBT2344 - Construction Management II (3)

Pre/Corequisites

- CNBT 1450, CNBT 1453, CNBT 2439 Prerequisite(s): CNBT 1316

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)
  - 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 can 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Business Management Technology - Business Management Technology - Bookkeeping - Accounting Assistant CER1

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - POFI2301 - Word Processing (3)
  - BMGT1327 - Principles of Management (3)
  - BUSG1304 - Financial Literacy (3)
  - POFI1349 - Spreadsheets (3)

Semester 2
9 Total Credits

- Complete the following:
  - ACNT1325 - Principles of Accounting I (3)
  - ACNT1329 - Payroll & Business Tax Accounting (3)
  - ACNT1311 - Introduction to Computerized Accounting (3)

Degree Plan Credits **21**

Capstone

- Complete the following:
  - ACNT1311 - Introduction to Computerized Accounting (3)

Business Management Technology - Business Management Technology - Office Assistant CER1

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - POFI2301 - Word Processing (3)
  - BMGT1327 - Principles of Management (3)
  - BUSG1304 - Financial Literacy (3)
  - POFI1349 - Spreadsheets (3)

Semester 2
9 Total Credits

- Complete the following:
  - ACNT1325 - Principles of Accounting I (3)
  - ITSW1310 - Introduction to Presentation Graphics Software (3)
  - ITSW1307 - Introduction to Database (3)

Semester 3
9 Total Credits

- Complete the following:
  - ACNT1311 - Introduction to Computerized Accounting (3)
  - POFT2312 - Business Correspondence & Communication (3)
  - ACNT1329 - Payroll & Business Tax Accounting (3)

Degree Plan Credits **30**

Capstone

- Complete the following:
  - POFT2312 - Business Correspondence & Communication (3)

Business Management Technology - Business Management Technology AAS

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - POFI2301 - Word Processing (3)
    - BMGT1327 - Principles of Management (3)
    - BUSG1304 - Financial Literacy (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)
  - MRKG1301 - Customer Relationship Management (3)
  - ITSW1310 - Introduction to Presentation Graphics Software (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3
12 Total Credits

- Complete the following:
  - ACNT1329 - Payroll & Business Tax Accounting (3)
  - BUSG1302 - E-Business 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)
  - BMGT1309 - Information and Project Management (3)
  - ITSW1307 - Introduction to Database (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)
  - Complete at least 3 credits from the following:
    - BUSG1315 - Small Business Operations (3)
    - POFT2380 - Cooperative Education - Administrative Assistant and Secretarial Science, General (3)
  - Complete the following:
    - HRPO2301 - Human Resources Management (3)
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - BUSG1315 - Small Business Operations (3)

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)
  - 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)

Business Management Technology - Business Management Technology CER2

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - POFI2301 - Word Processing (3)
  - BMGT1327 - Principles of Management (3)
  - BUSG1304 - Financial Literacy (3)
  - POFI1349 - Spreadsheets (3)

Semester 2
12 Total Credits

- Complete the following:
  - ACNT1325 - Principles of Accounting I (3)
  - MRKG1301 - Customer Relationship Management (3)
  - ITSW1310 - Introduction to Presentation Graphics Software (3)
  - BUSG1302 - E-Business Management (3)

Semester 3
12 Total Credits

- Complete the following:
  - ACNT1329 - Payroll & Business Tax Accounting (3)
  - BMGT1309 - Information and Project Management (3)
  - ITSW1307 - Introduction to Database (3)
  - HRPO2301 - Human Resources Management (3)

Semester 4
9 Total Credits

- Complete the following:
  - ACNT1311 - Introduction to Computerized Accounting (3)
  - POFT2312 - Business Correspondence & Communication (3)
  - BUSG1315 - Small Business Operations (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - BUSG1315 - Small Business Operations (3)

Chemical Dependency Counseling

Description

The Chemical Dependency Counseling 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 or hospitals.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Chemical Dependency Counseling - Chemical Dependency Counseling AAS

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DAAC1319 - Substance-Related and Addictive 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-Related and Addictive Disorders (3)
    - DAAC1304 - Pharmacology of Addiction (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 Alcohol and Other Drug Addictions (3)
  - DAAC2354 - Dynamics of Group Counseling (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
12 Total Credits

- Complete the following:
  - CJSA1325 - Criminology (3)
  - ACGM3GED - Gen Ed Elective (3)
  - DAAC2306 - Substance Abuse Prevention I (3)
  - DAAC2307 - Addicted Family Intervention (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)
  - 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

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - DAAC1319 - Substance-Related and Addictive 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-Related and Addictive Disorders (3)
  - DAAC1304 - Pharmacology of Addiction (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

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DAAC1319 - Substance-Related and Addictive 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 Addiction (3)
  - DAAC1309 - Assessment of Substance-Related and Addictive 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 Alcohol and Other Drug Addictions (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 produces dynamic, highly skilled IT professionals that today's industry demands. They have the expertise to build, secure and manage IT systems in the cloud and on-premise. They are in charge of keeping the infrastructure and services operational to ensure that everyone and everything stays connected.

In this program, you will engage with real equipment through hands-on labs and other interactive assessments designed to build knowledge and skills that are critical for success in high-demand fields. You will have the opportunity to learn how to configure and troubleshoot technology that is essential to any business, such as computers, switches, routers, servers and firewalls. All this will be through multiple pathway options and with many courses focused on industry certifications from Cisco, Amazon and CompTIA. The program is an official Cisco Network Academy and Amazon Web Services (AWS) Academy.

The advanced technical certificate is focused on cloud computing and offers specialized training in topics such as DevOps, infrastructure development/automation, programming, database management, security, configuration management and more. Students will leave with extensive knowledge of cloud computing.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Computer Networking & Systems Administration - Computer Networking & Systems Admin - Cloud Computing ATC

Locations

Online - TSTC Connect
Abilene
Brownwood
Marshall
North Texas
Waco

Program Requirements

Semester 1
8 Total Credits

- Complete the following:
  - ITNW1436 - Cloud Deployment & Infrastructure Management (4)
  - ITSC2425 - Advanced Linux (4)

Semester 2
8 Total Credits

- Complete the following:
  - ITNW2427 - Advanced Cloud Concepts (4)
  - ITNW2429 - Application Development for The Cloud (4)

Degree Plan Credits **16**

Capstone

- No capstone required

Pre/Corequisites

- ITSC 2425 Prerequisite(s): ITSC 1316
- ITNW 2427, ITNW 2429 Prerequisite(s): ITNW 1436

Computer Networking & Systems Administration - Computer Networking & Systems Admin - IT Support Tier I CER1

Locations

Online - TSTC Connect
Abilene
Brownwood
Marshall
North Texas
Waco
East Williamson County

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 1358 or ITCC 1314

Computer Networking & Systems Administration - Computer Networking & Systems Admin - IT Support Tier II CER2

Locations

Online - TSTC Connect
Abilene
Brownwood
Marshall
North Texas
Waco
East Williamson County

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 1358 or ITCC 1314
- ITCC 1344 Prerequisite(s): ITCC 1314
- ITSY 1342 Prerequisite(s): ITNW 1345 or ITNW 1354
- ITNW 2354 Prerequisite(s): ITNW 1345, ITSC 1316

Computer Networking & Systems Administration - Computer Networking & Systems Admin AAS

Locations

Online - TSTC Connect
Abilene
Brownwood
Marshall
North Texas
Waco
East Williamson County

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:
    - ITNW2352 - Administering SQL Server (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**

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 1358 or ITCC 1314
- 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

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)
  - 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)
  - 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 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 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Computer Programming Technology - Computer Programming Technology - Java Developer CER1

Locations

Online - TSTC Connect

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - ITSE1302 - Computer Programming (3)
  - ITSE1311 - Beginning Web Programming (3)
  - ITSE2309 - Database Programming (3)

Semester 2
9 Total Credits

- Complete the following:
  - ITSE2302 - Intermediate Web Programming (3)
  - ITSE2317 - Java Programming (3)
  - INEW2338 - Advanced Java Programming (3)

Degree Plan Credits **18**

Capstone

- Complete the following:
  - INEW2338 - Advanced Java Programming (3)

Pre/Corequisites

- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 2317 Prerequisite(s): ITSE 1302
- INEW 2338 Prerequisite(s): ITSE 2317

Computer Programming Technology - Computer Programming Technology - Mobile App Developer CER1

Locations

Online - TSTC Connect

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - ITSE1302 - Computer Programming (3)
  - ITSE1311 - Beginning Web Programming (3)
  - ITSE2309 - Database Programming (3)

Semester 2
9 Total Credits

- Complete the following:
  - ITSE2302 - Intermediate Web Programming (3)
  - ITSE2317 - Java Programming (3)
  - INEW2338 - Advanced Java Programming (3)

Semester 3
9 Total Credits

- Complete the following:
  - IMED1371 - Ui/Ux Design (3)
  - ITSE1333 - Mobile Applications Development (3)
  - ITSE2343 - Advanced Mobile Programming (3)

Degree Plan Credits **27**

Capstone

- Complete the following:
  - ITSE2343 - Advanced Mobile Programming (3)

Pre/Corequisites

- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 2317 Prerequisite(s): ITSE 1302
- INEW 2338, ITSE 1333 Prerequisite(s): ITSE 2317
- ITSE 2343 Prerequisite(s): ITSE 1333

Computer Programming Technology - Computer Programming Technology - Software Developer CER2

Locations

Online - TSTC Connect

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - ITSE1302 - Computer Programming (3)
  - ITSE1311 - Beginning Web Programming (3)
  - ITSE2309 - Database Programming (3)

Semester 2
9 Total Credits

- Complete the following:
  - ITSE2302 - Intermediate Web Programming (3)
  - ITSE2317 - Java Programming (3)
  - INEW2338 - Advanced Java Programming (3)

Semester 3
9 Total Credits

- Complete the following:
  - IMED1371 - Ui/Ux Design (3)
  - ITSE1333 - Mobile Applications Development (3)
  - ITSE2343 - Advanced Mobile Programming (3)

Semester 4
9 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - ITSE1330 - Introduction to C# Programming (3)
    - ITSE1373 - Intro to Python (3)
  - Complete the following:
    - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
  - Complete at least 3 credits from the following:
    - ITSE2353 - Advanced C# Programming (3)
    - ITSE2373 - Advanced Python (3)

Degree Plan Credits **36**

Capstone

- Complete 1 of the following
  - Complete the following:
    - ITSE2353 - Advanced C# Programming (3)
  - Complete the following:
    - ITSE2373 - Advanced Python (3)

Pre/Corequisites

- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 2317 Prerequisite(s): ITSE 1302
- INEW 2338, ITSE 1333 Prerequisite(s): ITSE 2317
- ITSE 2343 Prerequisite(s): ITSE 1333
- ITSE 1330, ITSE 1373 Prerequisite(s): INEW 2338
- ITSE 2333 Prerequisite(s): ITSE 2309
- ITSE 2353 Prerequisite(s): ITSE 1330
- ITSE 2373 Prerequisite(s): ITSE 1373

Computer Programming Technology - Computer Programming Technology AAS

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ITSE1302 - Computer Programming (3)
    - ITSE1311 - Beginning Web Programming (3)
    - ITSE2309 - Database Programming (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:
  - ITSE2302 - Intermediate Web Programming (3)
  - ITSE2317 - Java Programming (3)
  - IMED1371 - Ui/Ux Design (3)
  - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INEW2338 - Advanced Java Programming (3)
    - ITSE1333 - Mobile Applications Development (3)
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - Complete at least 3 credits from the following:
    - ITSE1330 - Introduction to C# Programming (3)
    - ITSE1373 - Intro to Python (3)

Semester 4
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ITSE2343 - Advanced Mobile Programming (3)
    - ITSE2333 - Implementing a Database on Microsoft SQL Server (3)
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - Complete at least 3 credits from the following:
    - ITSE2353 - Advanced C# Programming (3)
    - ITSE2373 - Advanced Python (3)

Semester 5
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ITSE2359 - Advanced Computer Programming (3)
    - INEW2330 - Comprehensive Software Project: Planning and Design (3)
    - ACGM3GED - Gen Ed Elective (3)
  - Complete at least 3 credits from the following:
    - INEW2332 - Comprehensive Software Project: Coding, Testing, and Implementation (3)
    - ITSE2380 - Cooperative Education - Computer Programming/Programmer, General (3)
    - ITSE2386 - Internship - Computer Programming/Programmer, General (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:
    - ITSE2380 - Cooperative Education - Computer Programming/Programmer, General (3)
  - Complete the following:
    - ITSE2386 - Internship - Computer Programming/Programmer, General (3)

Pre/Corequisites

- ITSE 2302 Prerequisite(s): ITSE 1311
- ITSE 2317 Prerequisite(s): ITSE 1302
- INEW 2338, ITSE 1333 Prerequisite(s): ITSE 2317
- ITSE 2343 Prerequisite(s): ITSE 1333
- ITSE 1373 Prerequisite(s): INEW 2338
- ITSE 2333 Prerequisite(s): ITSE 2309
- ITSE 2353 Prerequisite(s): ITSE 1330
- ITSE 2373 Prerequisite(s): ITSE 1373
- INEW 2332, ITSE 2380, ITSE 2386, ITSE 2359, INEW 2330 Prerequisite(s): (ITSE 2353 or ITSE 2373) and 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)
  - 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)
    - 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)

Computer Science

Description

The computer science degree is for students in mathematics, science or technical areas who wish to obtain skills in computer software development for scientific and technical applications. The courses in the program provide the academic core of the theoretical concepts of computer science combined with the fundamentals of structured design and development techniques for computer programming.

As an Academic program, students are expected to demonstrate college-level skills in mathematics, English and fundamental programming. Upon completion of this program a student will be able to:

- Demonstrate proficiency in a high level programming language.
- Apply logical skills and mathematical concepts to analyze, design and implement computer algorithms and programs.
- Demonstrate proficiency in current design techniques, i.e. Object Oriented Design.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Computer Science - Computer Science AS

Locations

Harlingen

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - COSC1336 - Programming Fundamentals I (3)
    - ENGL1301 - Composition I (3)
  - Complete at least 3 credits from the following:
    - MATH2312 - Pre-Calculus Math (3 SCH version) (3)
    - MATH1316 - Plane Trigonometry (3)
  - Complete the following:
    - ACGM3CAR - Creative Arts Elective (3)

Semester 2
13 Total Credits

- Complete the following:
  - COSC1337 - Programming Fundamentals II (3)
  - ENGL1302 - Composition II (3)
  - GOVT2305 - Federal Government (Federal constitution & topics) (3)
  - MATH2413 - Calculus I (4 SCH version) (4)

Semester 3
12 Total Credits

- Complete the following:
  - COSC2325 - Computer Organization (3)
  - GOVT2306 - Texas Government (Texas constitution & topics) (3)
  - ACGM3CAOB - Component Area Option (3)
  - ACGM3LPC - Language, Philosophy and Culture Elective (3)

Semester 4
10 Total Credits

- Complete the following:
  - COSC2336 - Programming Fundamentals III (3)
  - HIST1301 - United States History I (3)
  - PHYS1301 - College Physics I (lecture) (3)
  - PHYS1101 - College Physics Laboratory I (1)

Semester 5
10 Total Credits

- Complete the following:
  - HIST1302 - United States History II (3)
  - PHYS1302 - College Physics II (lecture) (3)
  - PHYS1102 - College Physics Lab II (1)
  - Course Not Found
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
  - COSC2336 - Programming Fundamentals III (3)

Pre/Corequisites

- MATH 2312 Prerequisite(s): MATH 1314 or MATH 1316
- COSC 1337, COSC 2325 Prerequisite(s): COSC 1336
- ENGL 1302 Prerequisite(s): ENGL 1301
- MATH 2413 Prerequisite(s): (MATH 1314 and MATH 1316) or MATH 2312 or MATH 2412
- COSC 2336 Prerequisite(s): COSC 1337
- PHYS 1301 Prerequisite(s): MATH 1314, MATH 1316 or MATH 2312 or MATH 2412 (Prerequisite), PHYS 1101 (Corequisite)
- PHYS 1101 Prerequisite(s): PHYS 1301 (Corequisite)
- PHYS 1302 Prerequisite(s): PHYS 1301, PHYS 1101 or PHYS 1401 (Prerequisite), PHYS 1102 (Corequisite)
- PHYS 1102 Prerequisite(s): PHYS 1302 (Corequisite)

Elective Options

- 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 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 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:
  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)

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 Culinary 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. For quicker entry into the industry, Culinary Assistant, Culinary Specialist and Culinarian certificates are available.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Culinary Arts - Culinary Arts - Culinarian CER2

Locations

Waco
East Williamson County

Program Requirements

Semester 1
10 Total Credits

- Complete the following:
  - CHEF1205 - Sanitation and Safety (2)
  - IFWA1205 - Food Service Equipment and Planning (2)
  - IFWA1401 - Food Preparation I (4)
  - IFWA1218 - Nutrition for the Food Service Professional (2)

Semester 2
10 Total Credits

- Complete all of the following
  - Complete the following:
    - IFWA1427 - Food Preparation II (4)
    - PSTR1301 - Fundamentals of Baking (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
9 Total Credits

- Complete the following:
  - CHEF1340 - Meat Preparation and Cooking (3)
  - IFWA1217 - Food Production and Planning (2)
  - PSTR2431 - Advanced Pastry Shop (4)

Semester 4
11 Total Credits

- Complete the following:
  - CHEF1441 - American Regional Cuisine (4)
  - CHEF1445 - International Cuisine (4)
  - RSTO1313 - Hospitality Supervision (3)

Degree Plan Credits **40**

Capstone

- Complete the following:
  - CHEF1441 - American Regional Cuisine (4)
  - CHEF1445 - International Cuisine (4)

Pre/Corequisites

- IFWA 1427, PSTR 1301, RSTO 1304 prerequisite: CHEF 1205, IFWA 1205, IFWA 1401
- CHEF 1340 prerequisite: IFWA 1427
- PSTR 2431 prerequisite: PSTR 1301
- CHEF 1441, CHEF 1445 prerequisite: CHEF 1340, PSTR 2431

Culinary Arts - Culinary Arts - Culinary Assistant CER1

Locations

Waco
East Williamson County

Program Requirements

Semester 1
10 Total Credits

- Complete the following:
  - CHEF1205 - Sanitation and Safety (2)
  - IFWA1205 - Food Service Equipment and Planning (2)
  - IFWA1401 - Food Preparation I (4)
  - IFWA1218 - Nutrition for the Food Service Professional (2)

Semester 2
10 Total Credits

- Complete all of the following
  - Complete the following:
    - IFWA1427 - Food Preparation II (4)
    - PSTR1301 - Fundamentals of Baking (3)
  - Complete at least 3 credits from the following:
    - RSTO1304 - Dining Room Service (3)
    - RSTO1380 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager (3)

Degree Plan Credits **20**

Capstone

- Complete the following:
  - IFWA1401 - Food Preparation I (4)
  - PSTR1301 - Fundamentals of Baking (3)

Pre/Corequisites

- IFWA 1427, PSTR 1301, RSTO 1304 prerequisite: CHEF 1205, IFWA 1205, IFWA 1401

Culinary Arts - Culinary Arts - Culinary Specialist CER1

Locations

Waco
East Williamson County

Program Requirements

Semester 1
10 Total Credits

- Complete the following:
  - CHEF1205 - Sanitation and Safety (2)
  - IFWA1205 - Food Service Equipment and Planning (2)
  - IFWA1401 - Food Preparation I (4)
  - IFWA1218 - Nutrition for the Food Service Professional (2)

Semester 2
13 Total Credits

- Complete all of the following
  - Complete the following:
    - IFWA1427 - Food Preparation II (4)
    - PSTR1301 - Fundamentals of Baking (3)
  - Complete all of the following
    - Complete the following:
      - RSTO1304 - Dining Room Service (3)
    - Complete the following:
      - RSTO1380 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager (3)

Semester 3
9 Total Credits

- Complete the following:
  - CHEF1340 - Meat Preparation and Cooking (3)
  - IFWA1217 - Food Production and Planning (2)
  - PSTR2431 - Advanced Pastry Shop (4)

Degree Plan Credits **32**

Capstone

- Complete the following:
  - IFWA1427 - Food Preparation II (4)
  - PSTR2431 - Advanced Pastry Shop (4)

Pre/Corequisites

- IFWA 1427, PSTR 1301, RSTO 1304 Prerequisite(s): CHEF 1205, IFWA 1205, IFWA 1401
- CHEF 1340 Prerequisite(s): IFWA 1427
- PSTR 2431 Prerequisite(s): PSTR 1301

Culinary Arts - Culinary Arts AAS

Locations

Waco
East Williamson County

Program Requirements

Semester 1
13 Total Credits

- Complete the following:
  - CHEF1205 - Sanitation and Safety (2)
  - IFWA1205 - Food Service Equipment and Planning (2)
  - 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)
    - ACGM3SBS - Gen Ed Social/Behavioral 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:
    - CHEF1340 - Meat Preparation and Cooking (3)
    - IFWA1217 - Food Production and Planning (2)
    - PSTR2431 - Advanced Pastry Shop (4)
  - Complete at least 3 credits from the following:
    - ENGL1301 - Composition I (3)
    - ENGL2311 - Technical & Business Writing (3)

Semester 4
14 Total Credits

- Complete the following:
  - CHEF1441 - American Regional Cuisine (4)
  - CHEF1445 - International Cuisine (4)
  - RSTO1313 - Hospitality Supervision (3)
  - ACGM3GED - Gen Ed Elective (3)

Semester 5
8 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:
    - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete 1 of the following
  - Complete the following:
    - RSTO2505 - Management of Food Production and Service (5)
  - Complete the following:
    - RSTO1680 - Cooperative Education - Restaurant, Culinary, and Catering Management/Manager (6)

Pre/Corequisites

- IFWA 1427, PSTR 1301, RSTO 1304 prerequisite: CHEF 1205, IFWA 1205, IFWA 1401
- CHEF 1340 prerequisite: IFWA 1427
- PSTR 2431 prerequisite: PSTR 1301
- CHEF 1441, CHEF 1445 prerequisite: IFWA 1427, PSTR 2431
- RSTO 2505, RSTO 1680 prerequisite: CHEF 1441, CHEF 1445, PSTR 2431, RSTO 1313 (Prerequisite or Corequisite)

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)
  - 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)
    - 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)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Cybersecurity - Cybersecurity Technology - Digital Forensics ATC

Locations

Online - TSTC Connect

Program Requirements

Semester 1
8 Total Credits

- Complete the following:
    - ITDF2420 - Digital Forensics Collection (4)
    - ITDF2425 - Digital Forensics Tools (4)

Semester 2
8 Total Credits

- Complete the following:
    - ITDF2430 - Digital Forensics Analysis (4)
    - ITDF2435 - Comprehensive Digital Forensics Project (4)

Degree Plan Credits **16**

Pre/Corequisites

- ITDF 2420 Prerequisite(s): AAS Degree - Security
- ITDF 2425 Prerequisite(s): ITDF 2420
- ITDF 2430 Prerequisite(s): ITDF 2425
- ITDF 2435 Prerequisite(s): ITDF 2430

Cybersecurity - Cybersecurity Technology (AM) OSA

Locations

Online - TSTC Connect
East Williamson County
Fort Bend County
Harlingen
Marshall
North Texas
Waco

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
    - ITNW1325 - Fundamentals of Networking Technologies (3)
    - ITNW2321 - Networking with TCP/IP (3)
    - ITSY1342 - Information Technology Security (3)

Degree Plan Credits **9**

Pre/Corequisites

- ITSY 1342 Prerequisite(s): ITNW 1345 or ITNW 1354

Cybersecurity - Cybersecurity Technology AAS

Locations

Online - TSTC Connect
East Williamson County
Harlingen
Fort Bend County
Marshall
North Texas
Waco

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - ITNW1325 - Fundamentals of Networking Technologies (3)
  - ITNW1354 - Implementing and Supporting Servers (3)
  - ITSC1325 - Personal Computer Hardware (3)
  - ENGL1301 - Composition I (3)

Semester 2
12 Total Credits

- Complete the following:
  - ITDF1300 - Introduction to Digital Forensics (3)
  - ITNW2321 - Networking with TCP/IP (3)
  - ITSY1374 - Secure Linux Administration (3)
  - ACGM3MTH - Gen Ed Mathematics Elective (3)

Semester 3
12 Total Credits

- Complete the following:
  - ITNW2312 - Routers (3)
  - ITNW2355 - Server Virtualization (3)
  - ITSY2343 - Computer System Forensics (3)
  - ACGM3GED - Gen Ed Elective (3)

Semester 4
12 Total Credits

- Complete the following:
  - ITSY1342 - Information Technology Security (3)
  - ITSY2301 - Firewalls and Network Security (3)
  - ITSY2330 - Intrusion Detection (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5
12 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - ITNW2350 - Enterprise Network (3)
    - ITNW2380 - Cooperative Education - Computer Systems Networking and Telecommunications (3)
  - Complete the following:
    - ITSY1375 - Security Scripting (3)
    - ITSY2359 - Security Assessment and Auditing (3)
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - ITNW2350 - Enterprise Network (3)
  - ITSY2359 - Security Assessment and Auditing (3)

Pre/Corequisites

- ITDF 1300 Prerequisite(s): ITSC 1325
- ITNW 2321 Prerequisite(s): ITNW 1325
- ITSY 1374 Prerequisite(s): ITNW 1354
- ITNW 2312 Prerequisite(s): ITNW 1325, ITNW 2321
- ITNW 2355 Prerequisite(s): ITNW 1345 or ITNW 1354, ITSC 1325
- ITSY 2343 Prerequisite(s): ITDF 1300
- ITSY 1342 Prerequisite(s): ITNW 1345 or ITNW 1354
- ITSY 2301 Prerequisite(s): ITNW 2312, ITNW 2321
- ITSY 2330 Prerequisite(s): ITNW 2321, ITSY 1342
- ITNW 2350 Prerequisite(s): ITSY 2301
- ITNW 2380 Prerequisite(s): 5th semester standing
- ITSY 1375 Prerequisite(s): ITSY 1374, ITSY 1342, ITSC 1325
- ITSY 2359 Prerequisite(s): ITSY 1342, ITSY 2301, ITSY 1374

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)
    - 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
East Williamson County
Harlingen
Fort Bend County
Marshall
North Texas
Waco

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - ITNW1325 - Fundamentals of Networking Technologies (3)
  - ITNW1354 - Implementing and Supporting Servers (3)
  - ITSC1325 - Personal Computer Hardware (3)

Semester 2
6 Total Credits

- Complete the following:
  - ITNW2321 - Networking with TCP/IP (3)
  - ITSY1374 - Secure Linux Administration (3)

Degree Plan Credits **15**

Capstone

- Complete the following:
  - ITNW2321 - Networking with TCP/IP (3)

Pre/Corequisites

- ITSY 1374 Prerequisite(s): ITNW 1354

Cybersecurity - Cybersecurity Technology CER2

Locations

Online - TSTC Connect
East Williamson County
Fort Bend County
Harlingen
Marshall
North Texas
Waco

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - ITNW1325 - Fundamentals of Networking Technologies (3)
  - ITNW1354 - Implementing and Supporting Servers (3)
  - ITSC1325 - Personal Computer Hardware (3)
  - ITNW2321 - Networking with TCP/IP (3)

Semester 2
12 Total Credits

- Complete the following:
  - ITSY1374 - Secure Linux Administration (3)
  - ITNW2312 - Routers (3)
  - ITNW2355 - Server Virtualization (3)
  - ITSY1342 - Information Technology Security (3)

Semester 3
12 Total Credits

- Complete the following:
  - ITSY2301 - Firewalls and Network Security (3)
  - ITSY2330 - Intrusion Detection (3)
  - ITNW2350 - Enterprise Network (3)
  - ITSY1375 - Security Scripting (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
  - ITNW2350 - Enterprise Network (3)

Pre/Corequisites

- ITSY 1374 Prerequisite(s): ITNW 1354
- ITNW 2312 Prerequisite(s): ITNW 1325
- ITNW 2355, ITSY 1342 Prerequisite(s): ITNW 1345 or ITNW 1354
- ITSY 2301 Prerequisite(s): ITNW 2312
- ITSY 2330 Prerequisite(s): ITNW 2321
- ITNW 2350 Prerequisite(s): ITSY 2301
- ITSY 1375 Prerequisite(s): ITSY 1374

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 a beautiful, state-of-the-art 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 Dental Hygiene Board and the Western Regional Board Examination, 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 78% (C) or better in all program classes in order to advance to the next semester. A grade of D will not be accepted in the Dental Hygiene program.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Dental Hygiene - Dental Hygiene AAS

Locations

Harlingen

Program Requirements

Semester 1
11 Total Credits

- Complete the following:
  - BIOL2101 - Anatomy & Physiology I (lab) (1)
  - BIOL2301 - Anatomy & Physiology I (lecture) (3)
  - CHEM1105 - Introductory Chemistry Laboratory I (lab) (1)
  - CHEM1305 - Introductory Chemistry I (lecture) (3)
  - ENGL1301 - Composition I (3)
  - Course Not Found

Semester 2
12 Total Credits

- Complete the following:
  - DHYG1227 - Preventive Dental Hygiene Care (2)
  - DHYG1301 - Orofacial Anatomy, Histology & Embryology (3)
  - DHYG1331 - Preclinical Dental Hygiene (3)
  - BIOL2102 - Anatomy & Physiology II (lab) (1)
  - BIOL2302 - Anatomy & Physiology II (lecture) (3)

Semester 3
14 Total Credits

- Complete the following:
  - DHYG1211 - Periodontology (2)
  - DHYG1260 - Clinical - Dental Hygiene/Hygienist (2)
  - DHYG1304 - Dental Radiology (3)
  - BIOL2120 - Microbiology for Non-Science Majors Laboratory (lab) (1)
  - BIOL2320 - Microbiology for Non-Science Majors (lecture) (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
10 Total Credits

- Complete the following:
  - DHYG1235 - Pharmacology for the Dental Hygienist (2)
  - DHYG1261 - Clinical - Dental Hygiene/Hygienist (2)
  - DHYG1319 - Dental Materials (3)
  - SOCI1301 - Introduction to Sociology (3)

Semester 5
12 Total Credits

- Complete the following:
  - DHYG1215 - Community Dentistry (2)
  - DHYG1239 - General and Oral Pathology (2)
  - DHYG2201 - Dental Hygiene Care I (2)
  - DHYG2360 - Clinical - Dental Hygiene/Hygienist (3)
  - PSYC2301 - General Psychology (3)

Semester 6
6 Total Credits

- Complete the following:
  - DHYG1207 - General and Dental Nutrition (2)
  - DHYG2153 - Dental Hygiene Practice (1)
  - DHYG2361 - Clinical - Dental Hygiene/Hygienist (3)

Degree Plan Credits **65**

Capstone

- Complete the following:
  - DHYG2361 - Clinical - Dental Hygiene/Hygienist (3)

Pre/Corequisites

- DHYG 1260 Prerequisite(s): DHYG 1331
- DHYG 1261 Prerequisite(s): DHYG 1260
- DHYG 2360 Prerequisite(s): DHYG 1261
- DHYG 2361 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 Construction & Forestry. TSTC's field-experienced faculty members work closely with related diesel industries to develop 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, industry needs quality-trained technicians to repair and maintain the equipment, and TSTC students learn from skilled craftsmen who have actual field experience. For quicker entry into the industry, certificates are also available.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Diesel Equipment Technology - Diesel Equipment Technology - Heavy Truck AAS

Locations

Waco
Fort Bend County
Sweetwater
North Texas

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - DEMR1301 - Shop Safety and Procedures (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1371 - Chassis I (3)
  - DEMR1329 - Preventative Maintenance (3)
  - ENGL1301 - Composition I (3)

Semester 2
17 Total Credits

- Complete the following:
  - DEMR1410 - Diesel Engine Testing and Repair I (4)
  - DEMR1321 - Power Train I (3)
  - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
  - DEMR2412 - Diesel Engine Testing and Repair II (4)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3
15 Total Credits

- Complete the following:
  - DEMR2332 - Electronic Controls (3)
  - DEMR1372 - Chassis II (3)
  - DEMR1316 - Basic Hydraulics (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)
  - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410 (Prerequisite or Corequisite)
- DEMR 2332 Prerequisite(s): DEMR 1305, DEM 2412
- DEMR 1372 Prerequisite(s): DEMR 1371
- DEMR 1447 Prerequisite(s): DEMR 1321
- DEMR 2334 Prerequisite(s): DEMR 2412 or AUMT2417

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)
  - 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 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)

Diesel Equipment Technology - Diesel Equipment Technology - Heavy Truck CER1

Locations

Waco
Fort Bend County
Sweetwater
North Texas

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DEMR1301 - Shop Safety and Procedures (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1371 - Chassis I (3)
  - DEMR1329 - Preventative Maintenance (3)

Semester 2
14 Total Credits

- Complete the following:
  - DEMR1410 - Diesel Engine Testing and Repair I (4)
  - DEMR1321 - Power Train I (3)
  - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
  - DEMR2412 - Diesel Engine Testing and Repair II (4)

Semester 3
10 Total Credits

- Complete the following:
  - DEMR2332 - Electronic Controls (3)
  - DEMR1372 - Chassis II (3)
  - DEMR1447 - Power Train II (4)

Degree Plan Credits **36**

Capstone

- Complete the following:
  - DEMR2332 - Electronic Controls (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410 (Pre or Co)
- DEMR 2332 Prerequisite(s): DEMR 1305, DEMR 2412
- DEMR 1372 Prerequisite(s): DEMR 1371
- DEMR 1447 Prerequisite(s): DEMR 1321

Diesel Equipment Technology - Diesel Equipment Technology - Heavy Truck CER2

Locations

Waco
Fort Bend County
Sweetwater
North Texas

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DEMR1301 - Shop Safety and Procedures (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1371 - Chassis I (3)
  - DEMR1329 - Preventative Maintenance (3)

Semester 2
14 Total Credits

- Complete the following:
  - DEMR1410 - Diesel Engine Testing and Repair I (4)
  - DEMR1321 - Power Train I (3)
  - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
  - DEMR2412 - Diesel Engine Testing and Repair II (4)

Semester 3
12 Total Credits

- Complete the following:
  - DEMR2332 - Electronic Controls (3)
  - DEMR1372 - Chassis II (3)
  - DEMR1316 - Basic Hydraulics (3)
  - DEMR2339 - Advanced Electrical Systems (3)

Semester 4
7 Total Credits

- Complete the following:
  - DEMR1447 - Power Train II (4)
  - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410 (Pre or Co)
- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 1372 Prerequisite(s): DEMR 1371
- DEMR 1447 Prerequisite(s): DEMR 1321
- DEMR 2334 Prerequisite(s): DEMR 2412 or AUMT 2417

Diesel Equipment Technology - Diesel Equipment Technology - John Deere AAS

Locations

Waco

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1316 - Basic Hydraulics (3)
  - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)

Semester 2
14 Total Credits

- Complete the following:
  - DEMR1410 - Diesel Engine Testing and Repair I (4)
  - DEMR2412 - Diesel Engine Testing and Repair II (4)
  - DEMR2332 - Electronic Controls (3)
  - DEMR1321 - Power Train I (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:
  - DEMR2332 - Electronic Controls (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410 (Pre or Co)
- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2335 Prerequisite(s): DEMR 1316 or DEMR 1416
- DEMR 2334 Prerequisite(s): DEMR 2312 or AUMT 2417, DEMR 2412 (Pre or Co)
- DEMR 2344 Prerequisite(s): DEMR 1321 or DEMR 2312 or DEMR 2412
- DEMR 1380 Prerequisite(s): DEMR 1321 or DEMR 2312 or DEMR 2412

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)
  - 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

Diesel Equipment Technology - Diesel Equipment Technology - John Deere CER2

Locations

Waco

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DEMR1375 - Introduction to Medium Heavy-Duty Truck and Equipment (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1316 - Basic Hydraulics (3)
  - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)

Semester 2
14 Total Credits

- Complete the following:
  - DEMR1410 - Diesel Engine Testing and Repair I (4)
  - DEMR2412 - Diesel Engine Testing and Repair II (4)
  - DEMR2332 - Electronic Controls (3)
  - DEMR1321 - Power Train I (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:
  - DEMR2332 - Electronic Controls (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410 (Pre or Co)
- DEMR 2332 Prerequisite(s): DEMR 1305
- DEMR 2335 Prerequisite(s): DEMR 1316 or DEMR 1416
- DEMR 2334 Prerequisite(s): DEMR 2312 or AUMT 2417, DEMR 2412 Pre or Co
- DEMR 2344 Prerequisite(s): DEMR 1321 or DEMR 2312 or DEMR 2412
- DEMR 1380 Prerequisite(s): DEMR 1321 or DEMR 2312 or DEMR 2412

Diesel Equipment Technology - Diesel Equipment Technology - Off Highway AAS

Locations

Waco
Marshall

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - DEMR1301 - Shop Safety and Procedures (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1371 - Chassis I (3)
  - DEMR1329 - Preventative Maintenance (3)
  - ENGL1301 - Composition I (3)

Semester 2
17 Total Credits

- Complete all of the following
  - Complete the following:
    - DEMR1410 - Diesel Engine Testing and Repair I (4)
    - DEMR1316 - Basic Hydraulics (3)
    - DEMR2412 - Diesel Engine Testing and Repair II (4)
    - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
  - Complete at least 3 credits from the following:
    - DEMR1321 - Power Train I (3)
    - HEMR1304 - Natural Gas Compression (3)

Semester 3
16 Total Credits

- Complete all of the following
  - Complete the following:
    - HEMR1401 - Tracks and Undercarriages (4)
    - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
    - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - Complete at least 3 credits from the following:
    - AGME1353 - Harvesting Equipment (3)
    - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Semester 4
12 Total Credits

- Complete the following:
  - DEMR2335 - Advanced Hydraulics (3)
  - DEMR2332 - Electronic Controls (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - DEMR2332 - Electronic Controls (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1321 or DEMR 2312 or DEMR 2412
- DEMR 2334 Prerequisite(s): DEMR 2412, DEMR 2312 or AUMT 2417
- DEMR 2335 Prerequisite(s): DEMR 1316 or DEMR 1416
- DEMR 2332 Prerequisite(s): DEMR 1305, DEMR 2412

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)
    - 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:
  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

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DEMR1301 - Shop Safety and Procedures (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1371 - Chassis I (3)
  - DEMR1329 - Preventative Maintenance (3)

Semester 2
14 Total Credits

- Complete all of the following
  - Complete the following:
    - DEMR1410 - Diesel Engine Testing and Repair I (4)
    - DEMR1316 - Basic Hydraulics (3)
    - DEMR2412 - Diesel Engine Testing and Repair II (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:
    - HEMR1401 - Tracks and Undercarriages (4)
    - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
    - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
  - 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 2412 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1321 or DEMR 2412
- DEMR 2334 Prerequisite(s): DEMR 2412 or DEMR 2417

Diesel Equipment Technology - Diesel Equipment Technology - Off Highway CER2

Locations

Waco
Marshall

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - DEMR1301 - Shop Safety and Procedures (3)
  - DEMR1305 - Basic Electrical Systems (3)
  - DEMR1371 - Chassis I (3)
  - DEMR1329 - Preventative Maintenance (3)

Semester 2
14 Total Credits

- Complete all of the following
  - Complete the following:
    - DEMR1410 - Diesel Engine Testing and Repair I (4)
    - DEMR1316 - Basic Hydraulics (3)
    - DEMR2412 - Diesel Engine Testing and Repair II (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:
    - HEMR1401 - Tracks and Undercarriages (4)
    - DEMR2344 - Automatic Power Shift and Hydrostatic Transmissions II (3)
    - DEMR1323 - Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (3)
  - 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)
  - DEMR2332 - Electronic Controls (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - DEMR2334 - Advanced Diesel Tune-Up and Troubleshooting (3)

Pre/Corequisites

- DEMR 2412 Prerequisite(s): DEMR 1410
- DEMR 2344 Prerequisite(s): DEMR 1321 or DEMR 2312 or DEMR 2412
- DEMR 2334 Prerequisite(s): DEMR 2412 or AUMT 2417
- DEMR 2335 Prerequisite(s): DEMR 1316 or DEMR 1416
- DEMR 2332 Prerequisite(s): DEMR 1305, DEMR 2412

Digital Media Design

Description

While you watch commercials, do you think to yourself, "I could do that better"? When you pass by a billboard, do you say to yourself, "I can't even read that"? In the Digital Media Design program, our goal is to inspire and teach a new generation of media artists how to be employable in the print, photography, videography and web design industries. We'll show you the techniques necessary to produce quality media design, and equip you with tools to grow as creative thinkers and innovators. Students in this program will manipulate sound, still images, 3-D images, animations, UXUI and digital video on computers. This program will provide training in desktop publishing, painting, drawing, color correction, solids modeling, animation, sound editing, nonlinear video editing web, page creating, photography, 3-D printing, marking and design.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Digital Media Design - Digital Media & Design Technology - Desktop Publisher ATC

Locations

Online - TSTC Connect

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - GRPH2309 - Digital Pre-Press (3)
  - ARTC2313 - Digital Publishing II (3)
  - ARTC2333 - Publication Design (3)

Semester 2
7 Total Credits

- Complete the following:
  - ARTC2449 - Art Direction II (4)
  - ARTC2348 - Digital Publishing III (3)

Degree Plan Credits **16**

Pre/Corequisites

- ARTC 2348 Prerequisite(s): ARTC 2313

Digital Media Design - Digital Media & Design Technology AAS

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - ARTC1302 - Digital Imaging I (3)
    - ARTC1353 - Computer Illustration (3)
    - ARTC1313 - Digital Publishing 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:
  - ARTC1317 - Design Communication I (3)
  - ARTC1327 - Typography (3)
  - ARTC2305 - Digital Imaging II (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3
12 Total Credits

- Complete the following:
  - ARTC2340 - Computer Illustration II (3)
  - ARTV1351 - Digital Video (3)
  - IMED1341 - Interface Design (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
12 Total Credits

- Complete the following:
  - ARTV2341 - Advanced Digital Video (3)
  - IMED2359 - Interactive Web Elements (3)
  - ARTC2347 - Design Communication II (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5
12 Total Credits

- Complete the following:
  - ARTC1349 - Art Direction I (3)
  - ARTC1359 - Visual Design for New Media (3)
  - ARTC2335 - Portfolio Development for Graphic Design (3)
  - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - ARTC2335 - Portfolio Development for Graphic Design (3)

Pre/Corequisites

- ARTC 1313, ARTC 1317 Prerequisite(s): ARTC 1302 (Prerequisite or Corequisite) ARTC 1353 (Prerequisite or Corequisite)
- ARTC 1327 Prerequisite(s): ARTC 1353 (Prerequisite or Corequisite)
- ARTC 2305 Prerequisite(s): ARTC 1302
- ARTC 2340 Prerequisite(s): ARTC 1353, ARTC 1317
- IMED 1341 Prerequisite(s): ARTC 1327, ARTC 1317
- ARTV 2341 Prerequisite(s): ARTV 1351
- IMED 2359 Prerequisite(s): IMED 1341
- ARTC 2347 Prerequisite(s): ARTC 1317, ARTC 2340 (Prerequisite or Corequisite), ARTC 2305 (Prerequisite or Corequisite)

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)
  - 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 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)

Digital Media Design - Digital Media & Design Technology CER1

Locations

Online - TSTC Connect

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - ARTC1302 - Digital Imaging I (3)
  - ARTC1353 - Computer Illustration (3)
  - ARTC1313 - Digital Publishing I (3)

Semester 2
9 Total Credits

- Complete the following:
  - ARTC1317 - Design Communication I (3)
  - ARTC1327 - Typography (3)
  - ARTC2305 - Digital Imaging II (3)

Semester 3
9 Total Credits

- Complete the following:
  - ARTC2347 - Design Communication II (3)
  - ARTC2340 - Computer Illustration II (3)
  - ARTV1351 - Digital Video (3)

Degree Plan Credits **27**

Capstone

- Complete the following:
  - ARTC2347 - Design Communication II (3)

Pre/Corequisites

- ARTC 1313, ARTC 1317 Prerequisite(s): ARTC 1302 (Prerequisite or Corequisite), ARTC 1353 (Prerequisite or Corequisite)
- ARTC 1327 Prerequisite(s): ARTC 1353 (Prerequisite or Corequisite)
- ARTC 2305 Prerequisite(s): ARTC 1302
- ARTC 2347 Prerequisite(s): ARTC 1317, ARTC 2340 (Prerequisite or Corequisite), ARTC 2305 (Prerequisite or Corequisite)
- ARTC 2340 Prerequisite(s): ARTC 1353, ARTC 1317

Digital Media Design - Digital Media & Design Technology CER2

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - ARTC1302 - Digital Imaging I (3)
  - ARTC1353 - Computer Illustration (3)
  - ARTC1313 - Digital Publishing I (3)
  - ARTC1317 - Design Communication I (3)

Semester 2
12 Total Credits

- Complete the following:
  - ARTC1327 - Typography (3)
  - ARTC2305 - Digital Imaging II (3)
  - IMED1341 - Interface Design (3)
  - ARTC2340 - Computer Illustration II (3)

Semester 3
12 Total Credits

- Complete the following:
  - ARTV1351 - Digital Video (3)
  - IMED2359 - Interactive Web Elements (3)
  - ARTC1359 - Visual Design for New Media (3)
  - ARTC2347 - Design Communication II (3)

Semester 4
9 Total Credits

- Complete the following:
  - ARTV2341 - Advanced Digital Video (3)
  - ARTC1349 - Art Direction I (3)
  - ARTC2335 - Portfolio Development for Graphic Design (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - ARTC2335 - Portfolio Development for Graphic Design (3)

Pre/Corequisites

- ARTC 1313, ARTC 1317 Prerequisite(s): ARTC 1302 (Prerequisite or Corequisite), ARTC 1353 (Prerequisite or Corequisite)
- ARTC 1327 Prerequisite(s): ARTC 1353 (Prerequisite or Corequisite)
- ARTC 2305 Prerequisite(s): ARTC 1302
- IMED 1341, ARTC 2340 Prerequisite(s): ARTC 1327, ARTC 1317
- IMED 2359 Prerequisite(s): IMED 1341
- ARTC 1359 Prerequisite(s): ARTV 1351 (Prerequisite or Corequisite), ARTC 2340
- ARTC 2347 Prerequisite(s): ARTC 1317, ARTC 2340 (Prerequisite or Corequisite), ARTC 2305 (Prerequisite or Corequisite)
- ARTV 2341 Prerequisite(s): ARTV 1351
- ARTC 1349 Prerequisite(s): ARTC 2305, ARTC 2340
- ARTC 2335 Prerequisite(s): ARTC 2347, IMED 1341, ARTV 2341 (Prerequisite or Corequisite)

Education & Training

Description

The Education and Training program is designed to prepare students to meet the demands of an increasingly competitive and intellectually challenging future through educational and personal growth, practical skills development, academic courses and career preparation. The program is composed of educational classes with technical labs for hands-on learning and allows students to gain specialized training in one of the four developed educational areas of emphasis listed below: Bilingual Education, Early Childhood Education, Special Education, or General Education (emphasis in Reading and Writing). Students will require two courses from the correspondent Area of Emphasis as listed below. The students will create and develop instructional materials ready to be used in the school setting utilizing a variety of state-of-the-art media and technical resources. For quicker entry into the industry, a certificate is also available. It requires that the student take one course from their corresponding area of emphasis.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Education & Training - Education & Training AAS

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - EDTC1301 - Educational Systems (3)
  - EDTC1341 - Instructional Technology and Computer Applications (3)
  - ENGL1301 - Composition I (3)
  - HIST1301 - United States History I (3)

Semester 2
12 Total Credits

- Complete the following:
  - CDEC1359 - Children with Special Needs (3)
  - EDTC2311 - Instructional Practices and Effective Learning Environments (3)
  - HIST1302 - United States History II (3)
  - SPCH1315 - Public Speaking (3)

Semester 3
12 Total Credits

- Complete the following:
  - EDTC1307 - Introduction to Teaching Reading (3)
  - TECA1354 - Child Growth & Development (3)
  - GOVT2305 - Federal Government (Federal constitution & topics) (3)
  - MATH1314 - College Algebra (3 SCH version) (3)
  - Course Not Found

Semester 4
9 Total Credits

- Complete the following:
  - EDTC1374 - Teaching Math & Science in the Elementary School (3)
  - EDTC2317 - Guiding Student Behavior (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - Course Not Found

Semester 5
9 Total Credits

- Complete the following:
  - EDTC1364 - Practicum (or Field Experience) - Teacher Assistant/Aide (3)
  - CDEC1318 - Wellness of the Young Child (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **54**

Capstone

- Complete the following:
  - EDTC1364 - Practicum (or Field Experience) - Teacher Assistant/Aide (3)

Elective Options

- Select 1 Area of Emphasis group. Complete 6 credits for that group.
- Area of Emphasis in Bilingual Education (2 courses required)
- Complete the following:
    - EDTC1321 - Bilingual Education (3)
    - EDTC1325 - Multicultural Education (3)
- Area of Emphasis in Early Childhood Education (2 courses required)
- Complete the following:
    - CDEC1321 - The Infant and Toddler (3)
    - CDEC1356 - Emergent Literacy for Early Childhood (3)
- Area of Emphasis in General Education (2 courses required)
- Complete the following:
    - EDTC1373 - Writing Problems (3)
    - EDTC2305 - Reading Problems (3)
- Area of Emphasis in Special Needs Education (2 courses required)
- Complete the following:
    - CDEC2340 - Instructional Techniques for Children with Special Needs (3)
    - EDTC1375 - Issues in Special Needs Education (3)
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- ---
- Complete a course from each of the following elective groups
- 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)

Education & Training - Education & Training CER2

Locations

Online - TSTC Connect

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - EDTC1301 - Educational Systems (3)
  - EDTC1341 - Instructional Technology and Computer Applications (3)
  - HIST1301 - United States History I (3)
  - SPCH1315 - Public Speaking (3)

Semester 2
15 Total Credits

- Complete the following:
  - CDEC1318 - Wellness of the Young Child (3)
  - CDEC1359 - Children with Special Needs (3)
  - EDTC2311 - Instructional Practices and Effective Learning Environments (3)
  - ENGL1301 - Composition I (3)
  - HIST1302 - United States History II (3)

Semester 3
15 Total Credits

- Complete the following:
  - EDTC2317 - Guiding Student Behavior (3)
  - TECA1354 - Child Growth & Development (3)
  - GOVT2305 - Federal Government (Federal constitution & topics) (3)
  - MATH1314 - College Algebra (3 SCH version) (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
4 Total Credits

- Complete the following:
  - EDTC1164 - Practicum (or Field Experience) - Teacher Assistant/Aide (1)
  - Course Not Found
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **46**

Capstone

- Complete the following:
  - EDTC1164 - Practicum (or Field Experience) - Teacher Assistant/Aide (1)

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:
  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)
- 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)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Electrical Construction - Electrical Construction CER1

Locations

Waco

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - ELPT2337 - Electrical Planning and Estimating (3)
  - ELPT1329 - Residential Wiring (3)
  - ITSC1309 - Integrated Software Applications I (3)
  - TECM1303 - Technical Calculations (3)
  - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)

Semester 2
15 Total Credits

- Complete the following:
  - ELPT1311 - Basic Electrical Theory (3)
  - ELPT1325 - National Electrical Code I (3)
  - ELPT1345 - Commercial Wiring (3)
  - OSHT1305 - OSHA Regulations - Construction Industry (3)
  - ELPT1357 - Industrial Wiring (3)

Semester 3
6 Total Credits

- Complete at least 6 credits from the following:
  - ELPT1681 - Cooperative Education - Electrical and Power Transmission Installation/ Installer, General (6)
  - ELPT1341 - Motor Control (3)
  - SOLR2377 - Codes for Alternative Energy, Efficiency & Conservation (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
  - ELPT1681 - Cooperative Education - Electrical and Power Transmission Installation/ Installer, General (6)

Pre/Corequisites

- ELPT 1357 Prerequisite(s): ELPT 1329 or ELPT 1345

Electrical Lineworker & Management Technology

Description

Lineworker occupations are among the most physically demanding but highest paying careers in the nation, and Texas employs more than any other state. In TSTC's Electrical Lineworker 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Electrical Lineworker & Management Technology - Electrical Lineworker Technology - Management

Electrical Lineworker & Management Technology - Electrical Lineworker Technology - Management
AAS

Locations

Waco
Harlingen
Fort Bend County
Marshall
Abilene

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)

Pre/Corequisites

- LNWK 2372, LNWK 1241, LNWK 1470, LNWK 2321, LNWK 1331, LNWK 1391, LNWK 2322 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)
  - 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 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 (PLCs), speed-drive systems, and computer software packages for engineering, designing and drafting.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Electrical Power and Controls - Electrical Power & Controls AAS

Locations

Waco
Fort Bend County
Abilene
North Texas

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - CETT1303 - DC Circuits (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:
    - CETT1305 - AC Circuits (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 all of the following
  - Complete at least 3 credits from the following:
    - CETT1325 - Digital Fundamentals (3)
    - ELPT1380 - Cooperative Education - Electrical and Power Transmission Installation/Installer, General (3)
  - Complete the following:
    - DFTG1313 - Drafting for Specific Occupations (3)
    - ELPT2319 - Programmable Logic Controllers I (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)
  - ELPT2335 - Electrical Theory and Devices (3)
  - ELPT2339 - Electrical Power Distribution (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)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303 or IEIR 1302
- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371
- CETT 1325 Prerequisite(s): CETT 1302, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 or CETT 1305 (Prerequisite or Corequisite)
- ELPT 2319 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- EEIR 1309 Prerequisite(s): CETT 1305, ELPT 1341
- ELPT 1351 Prerequisite(s): CETT 1305
- ELPT 2335 Prerequisite(s): CETT 1305 or MATH 1316
- ELPT 2339 Prerequisites(s): CETT 1305, DFTG 1313
- ELPT 2323 Prerequisite(s): ELPT 2335
- ELPT 2331 Prerequisite(s): CETT 1305, ELPT 1351
- ELPT 2343 Prerequisite(s): DFTG 1313, EEIR 1309 or ELPT 2339
- ELPT 2347 Prerequisite(s): CETT 1305, ELPT 1351, ELPT 2339 (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)
  - 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Electromechanical Technology - Electromechanical Technology AAS

Locations

Sweetwater

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - CETT1303 - DC Circuits (3)
  - ELMT1374 - Introduction to Electromechanical System (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 2
15 Total Credits

- Complete the following:
  - CETT1305 - AC Circuits (3)
  - CETT1325 - Digital Fundamentals (3)
  - ELMT1305 - Basic Fluid Power (3)
  - ELMT1373 - Pumps and Compressors Control (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 3
15 Total Credits

- Complete all of the following
  - Complete the following:
    - CETT1329 - Solid State Devices (3)
    - ELMT1301 - Programmable Logic Controllers (3)
    - ELMT2373 - Communication Protocols (3)
    - INMT1317 - Industrial Automation (3)
  - Complete at least 3 credits from the following:
    - ENGL1301 - Composition I (3)
    - ENGL2311 - Technical & Business Writing (3)

Semester 4
14 Total Credits

- Complete the following:
  - ELMT2239 - Advanced Programmable Logic Controllers (2)
  - ELMT2372 - Process Control Systems (3)
  - ELMT2341 - Electromechanical Systems (3)
  - ELMT2371 - Industrial Control Power Devic (3)
  - ACGM3GED - Gen Ed Elective (3)

Semester 5
4 Total Credits

- Complete at least 4 credits from the following:
  - ELMT2480 - Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology (4)
  - ELMT1491 - Special Topics in Electromechanical Technology/Technician (4)

Degree Plan Credits **60**

Capstone

- Complete at least 4 credits from the following:
  - ELMT2480 - Cooperative Education - Electromechanical Technology/Electromechanical Engineering Technology (4)
  - ELMT1491 - Special Topics in Electromechanical Technology/Technician (4)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303, 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)
- ELMT 1373 Prerequisite(s): CETT 1303
- CETT 1329 Prerequisite(s): CETT 1305, IEIR 1371 or IEIR 1304
- ELMT 1301, ELMT 2372 Prerequisite(s): CETT 1325
- INMT 1317 Prerequisite(s): CETT 1303, CETT 1305
- ELMT 2239 Prerequisite(s): ELMT 1301
- ELMT 2372 Prerequisite(s): ELMT 1373
- ELMT 2341 Prerequisite(s): ELMT 1374
- ELMT 2371 Prerequisite(s): CETT 1305

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:
  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)
  - 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:
  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)

Electromechanical Technology - Electromechanical Technology CER1

Locations

Sweetwater

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - CETT1303 - DC Circuits (3)
  - ELMT1374 - Introduction to Electromechanical System (3)
  - CETT1305 - AC Circuits (3)
  - CETT1325 - Digital Fundamentals (3)

Semester 2
12 Total Credits

- Complete the following:
  - ELMT1301 - Programmable Logic Controllers (3)
  - INMT1317 - Industrial Automation (3)
  - ELMT1305 - Basic Fluid Power (3)
  - ELMT1373 - Pumps and Compressors Control (3)

Degree Plan Credits **24**

Capstone

- Complete the following:
  - ELMT1301 - Programmable Logic Controllers (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)
- ELMT 1301 Prerequisite(s): CETT 1325
- INMT 1317 Prerequisite(s): CETT 1303, CETT 1305

Electromechanical Technology - Electromechanical Technology CER2

Locations

Sweetwater

Program Requirements

Semester 1
9 Total Credits

- Complete all of the following
  - Complete the following:
    - CETT1303 - DC Circuits (3)
    - ELMT1374 - Introduction to Electromechanical System (3)
  - Complete at least 3 credits from the following:
    - TECM1303 - Technical Calculations (3)
    - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2
12 Total Credits

- Complete the following:
  - CETT1305 - AC Circuits (3)
  - CETT1325 - Digital Fundamentals (3)
  - ELMT1305 - Basic Fluid Power (3)
  - ELMT1373 - Pumps and Compressors Control (3)

Semester 3
12 Total Credits

- Complete the following:
  - ELMT1301 - Programmable Logic Controllers (3)
  - CETT1329 - Solid State Devices (3)
  - ELMT2373 - Communication Protocols (3)
  - INMT1317 - Industrial Automation (3)

Semester 4
11 Total Credits

- Complete the following:
  - ELMT2372 - Process Control Systems (3)
  - ELMT2239 - Advanced Programmable Logic Controllers (2)
  - ELMT2341 - Electromechanical Systems (3)
  - ELMT2371 - Industrial Control Power Devic (3)

Degree Plan Credits **44**

Capstone

- Complete the following:
  - ELMT2341 - Electromechanical Systems (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)
- ELMT 1301, ELMT 2373 Prerequisite(s): CETT 1325
- CETT 1329 Prerequisite(s): CETT 1305, IEIR 1371 or IEIR 1304
- INM 1317 Prerequisite(s): CETT 1303, CETT 1305
- ELMT 2372 Prerequisite(s): ELMT 1373
- ELMT 2239 Prerequisite(s): ELMT 1301
- ELMT 2371 Prerequisite(s): CETT 1305

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 EMT's and paramedics in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains, with exit points at the Advanced Emergency Medical Technician, Emergency Medical Technician (Basic), and/or First Responder levels.

Grading Scale

A = 100-90

B = 89-80

C = 79-70

D = 69-60

F = 59-0

NOTE: Students scoring less than 70% as a final course average in EMS will not progress to the next section.

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, the student will be dismissed and may be given the opportunity to reapply and repeat the program in FULL. Paramedic students are required to pass A&P (BIOL 2404) or equivalent to obtain a course completion. The 70% passing rate in the TSTC EMS Program is based on the preparation of our students to pass the National Registry Exam. The National Registry Exam is required to certify as a Registered EMT or Paramedic.

Students participating in clinical and field internships are required to purchase accident, needlestick and malpractice insurance.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Emergency Medical Services - Emergency Medical Services - Advanced EMT CER2

Locations

Abilene
Brownwood
Harlingen

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)
    - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) (4)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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**

Capstone

- Complete the following:
  - EMSP2167 - Practicum (or Field Experience) - Emergency Medical Technology/Technician (EMT Paramedic) (1)

Emergency Medical Services - Emergency Medical Services - EMT CER1

Locations

Abilene
Brownwood
Harlingen

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 all of the following
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)
  - Complete the following:
    - 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)

Emergency Medical Services - Emergency Medical Services - Paramedic AAS

Locations

Harlingen
Abilene
Brownwood

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)
    - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) (4)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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)

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)

Emergency Medical Services - Emergency Medical Services - Paramedic CER2

Locations

Abilene
Brownwood
Harlingen

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)
    - BIOL2404 - Anatomy & Physiology (specialized, Single-Semester Course, Lec + Lab) (4)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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)

Engineering

Description

The Engineering program supports and enhances the College's technical education mission by providing Texas industry with employees who perform well at the entry level by virtue of their competence in math and problem-solving techniques using engineering principles. The Engineering program prepares graduates for advancement in the workplace through superior science and mathematics-based problem solving skills, and facilitates progress toward successful completion of further educational goals and/or lifelong learning experiences.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Engineering - Engineering AS

Locations

Harlingen

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - ENGR1201 - Introduction to Engineering (2)
  - CHEM1111 - General Chemistry I (lab) (1)
  - CHEM1311 - General Chemistry I (lecture) (3)
  - ENGL1301 - Composition I (3)
  - MATH2312 - Pre-Calculus Math (3 SCH version) (3)

Semester 2
13 Total Credits

- Complete the following:
  - ENGR1304 - Engineering Graphics I (3 Sch version) (3)
  - ENGL1302 - Composition II (3)
  - GOVT2306 - Texas Government (Texas constitution & topics) (3)
  - MATH2413 - Calculus I (4 SCH version) (4)

Semester 3
11 Total Credits

- Complete the following:
  - ENGR2304 - Programming for Engineers (3)
  - MATH2414 - Calculus II (4 SCH version) (4)
  - PHYS2325 - University Physics I (lecture) (3)
  - PHYS2125 - University Physics Laboratory I (lab) (1)

Semester 4
14 Total Credits

- Complete the following:
  - ENGR2301 - Engineering Mechanics - Statics (3 SCH version) (3)
  - HIST1301 - United States History I (3)
  - MATH2415 - Calculus III (4 SCH version) (4)
  - PHYS2326 - University Physics II (lecture) (3)
  - PHYS2126 - University Physics Laboratory II (lab) (1)

Semester 5
10 Total Credits

- Complete the following:
  - ENGR2105 - Electrical Circuits I Laboratory (1)
  - ENGR2302 - Engineering Mechanics - Dynamics (3 SCH version) (3)
  - ENGR2305 - Electrical Circuits I (3)
  - MATH2320 - Differential Equations (3 SCH version) (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - ENGR2305 - Electrical Circuits I (3)
  - ENGR2105 - Electrical Circuits I Laboratory (1)

Pre/Corequisites

- ENGR 1201 Prerequisite(s): MATH 1314
- CHEM 1311 Prerequisite(s): MATH 1314, CHEM 1111 (Corequisite)
- CHEM 1111 Prerequisite(s): CHEM 1311 (Corequisite)
- MATH 2312 Prerequisite(s): MATH 1314 or MATH 1316
- ENGR 1304 Prerequisite(s): MATH 1314
- ENGL 1302 Prerequisite(s): ENGL 1301
- MATH 2413 Prerequisite(s): (MATH 1314 and MATH 1316) or MATH 2312 or MATH 2412
- MATH 2414 Prerequisite(s): MATH 2413
- PHYS 2325 Prerequisite(s): MATH 2413, PHYS 2125 (Corequisite)
- PHYS 2125 Prerequisite(s): PHYS 2325 (Co)
- ENGR 2301 Prerequisite(s): PHYS 2325
- MATH 2415 Prerequisite(s): MATH 2414
- PHYS 2326 Prerequisite(s): PHYS 2325, MATH 2414, PHYS 2126 (Corequisite)
- PHYS 2126 Prerequisite(s): PHYS 2326 (Corequisite)
- ENGR 2302 Prerequisite(s): ENGR 2301
- ENGR 2305 Prerequisite(s): PHYS 2325, MATH 2414
- MATH 2320 Prerequisite(s): MATH 2414

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Engineering Graphics & Design Technology - Engineering Graphics & Design Technology AAS

Locations

Online - TSTC Connect
Harlingen
Marshall
Waco
North Texas

Program Requirements

Semester 1
9 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
    - 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)

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 **57**

Capstone

- Complete the following:
  - DFTG2306 - Machine Design (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1329, DFTG 1333, DFTG 2323, DFTG 2357, DFTG 2386 Prerequisite(s): DFTG 1309
- DFTG 1358 Prerequisite(s): DFTG 1329
- DFTG 2302 Prerequisite(s): DFTG 1333
- DFTG 2335, DFTG 2340, DFTG 2350 Prerequisite(s): DFTG 2302

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)

Engineering Graphics & Design Technology - Engineering Graphics & Design Technology CER1

Locations

Online - TSTC Connect
Harlingen
Marshall
Waco
North Texas

Program Requirements

Semester 1
6 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
    - 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 **15**

Capstone

- Complete the following:
  - DFTG1333 - Mechanical Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1329, DFTG 1333, DFTG 2323 Prerequisite(s): DFTG 1309

Engineering Graphics & Design Technology - Engineering Graphics & Design Technology CER2

Locations

Online - TSTC Connect
Waco
Harlingen
Marshall
North Texas

Program Requirements

Semester 1
6 Total Credits

- Complete all of the following
  - Complete the following:
    - Course Not Found
    - 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 **33**

Capstone

- Complete the following:
  - DFTG2335 - Advanced Technologies in Mechanical Design and Drafting (3)

Pre/Corequisites

- ENGR 1304 Prerequisite(s): MATH 1314
- DFTG 1329, DFTG 1333, DFTG 2323, DFTG 1358 Prerequisite(s): DFTG 1309
- DFTG 2302 Prerequisite(s): DFTG 1333
- DFTG 2357 Prerequisite(s): DFTG 1333
- DFTG 2335, DFTG 2340, DFTG 2350 Prerequisite(s): DFTG 2302

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Health Information Technology - Health Information Technology - Medical Coding & Billing Specialist CER2

Locations

Online - TSTC Connect

Program Requirements

Semester 1
11 Total Credits

- Complete all of the following
  - Complete the following:
    - HITT1204 - IT for Health Professions (2)
    - HITT1301 - Health Data Content and Structure (3)
    - MDCA1302 - Human Disease/Pathophysiology (3)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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
13 Total Credits

- Complete all of the following
  - Complete the following:
    - HITT1342 - Ambulatory Coding (3)
    - HITT2335 - Coding and Reimbursement Methodologies (3)
    - HITT2360 - Clinical - Health Information/Medical Records Technology/Technician (3)
  - 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:
  - HITT2366 - Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician (3)

Pre/Corequisites

- HITT 2335 Prerequisite(s): HITT 1341

Health Information Technology - Health Information Technology - Medical Office Specialist CER1

Locations

Online - TSTC Connect

Program Requirements

Semester 1
11 Total Credits

- Complete all of the following
  - Complete the following:
    - HITT1204 - IT for Health Professions (2)
    - HITT1301 - Health Data Content and Structure (3)
    - MDCA1302 - Human Disease/Pathophysiology (3)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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 **22**

Capstone

- Complete the following:
  - HITT1311 - Health Information Systems (3)

Health Information Technology - Health Information Technology AAS

Locations

Online - TSTC Connect

Program Requirements

Semester 1
11 Total Credits

- Complete all of the following
  - Complete the following:
    - HITT1204 - IT for Health Professions (2)
    - HITT1301 - Health Data Content and Structure (3)
    - MDCA1302 - Human Disease/Pathophysiology (3)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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
12 Total Credits

- Complete the following:
  - HITT2249 - RHIT Competency Review (2)
  - HITT2443 - Quality Assessment and Performance Improvement (4)
  - HITT2360 - Clinical - Health Information/Medical Records Technology/Technician (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - HITT2366 - Practicum (or Field Experience) - Health Information/Medical Records Technology/Technician (3)

Pre/Corequisites

- 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 of 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Heating, Ventilation, & Air Conditioning Technology - Heating, Ventilation & Air Conditioning (HVAC) Technology - Residential Service Technician CER1

Locations

Waco
East Williamson County
Harlingen
Fort Bend County
North Texas

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

Locations

Waco
East Williamson County
Harlingen
Fort Bend County
North Texas

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**

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)
  - 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:
  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
East Williamson County
Harlingen
Fort Bend County
North Texas

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

Heating, Ventilation, & Air Conditioning Technology - Heating, Ventilation & Air Conditioning (HVAC) Technology CER2

Locations

Waco
East Williamson County
Harlingen
Fort Bend County
North Texas

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)

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

Industrial Systems

Description

The Industrial Systems program is designed by industry experts and employers. The courses in this program 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, machine shop, power transmissions and troubleshooting. The classroom learning is supplemented with hands-on training utilizing equipment to provide you with the skills and technical background needed to be successful in most industrial environments. Students can choose a general Industrial Systems track or specialize in Electrical Industrial Systems. For quicker entry into the industry, general and electrical industrial systems certificates are also available.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Industrial Systems - Industrial Systems Technology - Advanced Manufacturing Technology AAS

Locations

New Braunfels

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - ACGM3MTH - Gen Ed Mathematics Elective (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
9 Total Credits

- Complete the following:
  - ELPT1341 - Motor Control (3)
  - HYDR1305 - Basic Hydraulics (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)
  - Course Not Found

Semester 3
12 Total Credits

- Complete all of the following
  - Complete the following:
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
    - ELPT2305 - Motors and Transformers (3)
    - MCHN1338 - Basic Machine Shop I (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:
  - RBTC1301 - Programmable Logic Controllers (3)
  - RBTC1309 - Pneumatics (3)
  - INMT2301 - Machinery Installation (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5
12 Total Credits

- Complete the following:
  - RBTC1343 - Robotics (3)
  - ELPT2331 - AC/DC Drives (3)
  - INMT2345 - Industrial Troubleshooting (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- Rule Not Selected

Elective Options

- Complete all of the following
  - ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371
  - 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
  - INMT 2301 Prerequisite(s): INMT 1305
  - INMT 2345 Prerequisite(s): ELPT 1341

Industrial Systems - Industrial Systems Technology - Electrical AAS

Locations

Marshall
North Texas
New Braunfels

Program Requirements

Semester 1
15 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
15 Total Credits

- Complete the following:
  - ELPT1341 - Motor Control (3)
  - HYDR1345 - Hydraulics and Pneumatics (3)
  - ELPT1351 - Electrical Machines (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3
15 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1375 - Industrial and Manufacturing Wirning Applications (3)
    - INMT2301 - Machinery Installation (3)
    - ELPT2331 - AC/DC Drives (3)
    - ENGL1301 - Composition I (3)
  - Complete at least 3 credits from the following:
    - ELPT2319 - Programmable Logic Controllers I (3)
    - INMT1371 - Industrial Manufacturing PLC Installation (3)

Semester 4
15 Total Credits

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)
  - INMT1317 - Industrial Automation (3)
  - ELPT2355 - Programmable Logic Controllers II (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT 1372
- ELPT 1351 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- INMT 2303 Prerequisite(s): INMT 1305
- INMT 1374 Prerequisite(s): ELPT 1311 or INMT 1372
- ELPT 2319, INMT 1371 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- INMT 2301 Prerequisite(s): INMT 1305
- ELPT 2331, INMT 2345 Prerequisite(s): ELPT 1341
- ELPT 2355 Prerequisite(s): ELPT 1309 or INMT1371

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)
  - 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:
  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)

Industrial Systems - Industrial Systems Technology - Electrical CER1

Locations

Marshall
North Texas

Program Requirements

Semester 1
9 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
9 Total Credits

- Complete the following:
  - ELPT1341 - Motor Control (3)
  - HYDR1345 - Hydraulics and Pneumatics (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)

Semester 3
9 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1374 - Industrial and Manufacturing Wirning Applications (3)
    - INMT2301 - Machinery Installation (3)
  - Complete at least 3 credits from the following:
    - ELPT2319 - Programmable Logic Controllers I (3)
    - INMT1371 - Industrial Manufacturing PLC Installation (3)

Degree Plan Credits **27**

Capstone

- Complete the following:
  - INMT2301 - Machinery Installation (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT 1372
- INMT 2303, INMT 2301 Prerequisite(s): INMT 1305
- INMT 1374 Prerequisite(s): ELPT 1311 or INMT 1372
- ELPT 2319, INMT 1371 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)

Industrial Systems - Industrial Systems Technology - Electrical CER2

Locations

Marshall
North Texas

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
12 Total Credits

- Complete the following:
  - ELPT1345 - Commercial Wiring (3)
  - HYDR1345 - Hydraulics and Pneumatics (3)
  - ELPT1351 - Electrical Machines (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)

Semester 3
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1374 - Industrial and Manufacturing Wirning Applications (3)
    - INMT2301 - Machinery Installation (3)
    - ELPT2331 - AC/DC Drives (3)
  - Complete at least 3 credits from the following:
    - ELPT2319 - Programmable Logic Controllers I (3)
    - INMT1371 - Industrial Manufacturing PLC Installation (3)

Semester 4
9 Total Credits

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)
  - INMT1317 - Industrial Automation (3)
  - ELPT2355 - Programmable Logic Controllers II (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT 1372
- ELPT 1351 Prerequisite(s): ELPT 1341(Prerequisite or Corequisite)
- INMT 2303, INMT 2301 Prerequisite(s): INMT 1305
- INMT 1374 Prerequisite(s): ELPT 1311 or INMT 1372
- ELPT 2319, INMT 1371 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- ELPT 2331, INMT 2345 Prerequisite(s): ELPT 1341
- ELPT 2355 Prerequisite(s): ELPT 2319 or INMT 1371

Industrial Systems - Industrial Systems Technology - Mechanic Entry Level Technician CER1

Locations

Waco
East Williamson County
Fort Bend County
Abilene

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
9 Total Credits

- Complete the following:
  - ELPT1341 - Motor Control (3)
  - HYDR1305 - Basic Hydraulics (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)

Degree Plan Credits **21**

Capstone

- Complete the following:
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT1372
- INMT 2303 Prerequisite(s): INMT 1305

Industrial Systems - Industrial Systems Technology - Mechanical AAS

Locations

Waco
East Williamson County
Fort Bend County
Abilene

Program Requirements

Semester 1
15 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
15 Total Credits

- Complete the following:
  - PFPB2308 - Piping Standards and Materials (3)
  - ELPT1341 - Motor Control (3)
  - HYDR1305 - Basic Hydraulics (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)

Semester 3
15 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1355 - Industrial Power Plant Systems (3)
    - INMT2301 - Machinery Installation (3)
    - RBTC1309 - Pneumatics (3)
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - Complete at least 3 credits from the following:
    - ELPT2319 - Programmable Logic Controllers I (3)
    - INMT1371 - Industrial Manufacturing PLC Installation (3)

Semester 4
15 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT2345 - Industrial Troubleshooting (3)
    - ELPT2355 - Programmable Logic Controllers II (3)
    - CBFM1303 - Boiler Maintenance (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:
  - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT 1372
- INMT 2303, INMT 1355, INMT 2301 Prerequisite(s): INMT 1305
- ELPT 2319, INMT 1371 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- RBTC 1309 Prerequisite(s): HYDR 1305
- INMT 2345 Prerequisite(s): ELPT 1341
- ELPT 2355 Prerequisite(s): ELPT 2319 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:
  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)
  - 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:
  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)

Industrial Systems - Industrial Systems Technology - Mechanical CER1

Locations

Waco
East Williamson County
Fort Bend County
Abilene

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
12 Total Credits

- Complete the following:
  - PFPB2308 - Piping Standards and Materials (3)
  - ELPT1341 - Motor Control (3)
  - HYDR1305 - Basic Hydraulics (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)

Semester 3
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1355 - Industrial Power Plant Systems (3)
    - INMT2301 - Machinery Installation (3)
    - RBTC1309 - Pneumatics (3)
  - Complete at least 3 credits from the following:
    - ELPT2319 - Programmable Logic Controllers I (3)
    - INMT1371 - Industrial Manufacturing PLC Installation (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
  - INMT1355 - Industrial Power Plant Systems (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT1372
- INMT 2303, INMT 1355, INMT 2301 Prerequisite(s): INMT 1305
- ELPT 2319, INMT 1371 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- RBTC 1309 Prerequisite(s): HYDR 1305

Industrial Systems - Industrial Systems Technology - Mechanical CER2

Locations

Waco
East Williamson County
Fort Bend County
Abilene

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1373 - Print Reading for Industrial Equipment Technician (3)
    - INMT1305 - Introduction to Industrial Maintenance (3)
    - WLDG1391 - Special Topics in Welder/Welding Technologist (3)
  - Complete at least 3 credits from the following:
    - ELPT1311 - Basic Electrical Theory (3)
    - INMT1372 - Introduction to Industrial Electricity (3)

Semester 2
12 Total Credits

- Complete the following:
  - PFPB2308 - Piping Standards and Materials (3)
  - ELPT1341 - Motor Control (3)
  - HYDR1305 - Basic Hydraulics (3)
  - INMT2303 - Pumps, Compressors & Mechanical Drives (3)

Semester 3
12 Total Credits

- Complete all of the following
  - Complete the following:
    - INMT1355 - Industrial Power Plant Systems (3)
    - INMT2301 - Machinery Installation (3)
    - RBTC1309 - Pneumatics (3)
  - Complete at least 3 credits from the following:
    - ELPT2319 - Programmable Logic Controllers I (3)
    - INMT1371 - Industrial Manufacturing PLC Installation (3)

Semester 4
9 Total Credits

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)
  - ELPT2355 - Programmable Logic Controllers II (3)
  - CBFM1303 - Boiler Maintenance (3)

Degree Plan Credits **45**

Capstone

- Complete the following:
  - INMT2345 - Industrial Troubleshooting (3)

Pre/Corequisites

- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371 or INMT 1372
- INMT 2303, INMT 1355, INMT 2301 Prerequisite(s): INMT 1305
- ELPT 2319, INMT 1371 Prerequisite(s): ELPT 1341 (Prerequisite or Corequisite)
- RBTC 1309 Prerequisite(s): HYDR 1305
- INMT 2345 Prerequisite(s): ELPT 1341
- ELPT 2355 Prerequisite(s): ELPT 2319 or INMT 1371

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Instrumentation Technology - Instrumentation Technology AAS

Locations

Waco

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - CETT1303 - DC Circuits (3)
    - INTC1305 - Introduction to Instrumentation (3)
    - MATH1316 - Plane Trigonometry (3)
  - Complete at least 3 credits from the following:
    - DFTG1313 - Drafting for Specific Occupations (3)
    - INTC1312 - Instrumentation and Safety (3)

Semester 2
12 Total Credits

- Complete all of the following
  - Complete the following:
    - CETT1305 - AC Circuits (3)
    - INTC1341 - Principles of Automatic Control (3)
  - Complete at least 3 credits from the following:
    - ELPT1341 - Motor Control (3)
    - INTC1357 - AC/DC Motor 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 all of the following
  - Complete the following:
    - INTC1355 - Unit Operations (3)
    - INTC2336 - Distributed Control and Programmable Logic (3)
    - RBTC1301 - Programmable Logic Controllers (3)
  - Complete at least 3 credits from the following:
    - PHYS1310 - Elementary Physics (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)
  - INTC2350 - Fieldbus Process Control Systems (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - INTC2350 - Fieldbus Process Control Systems (3)

Pre/Corequisites

- INTC 1305 Prerequisite(s): CETT 1303 (Prerequisite or Corequisite)
- CETT 1305 Prerequisite(s): CETT 1303 or IEIR 1302 (Pre or Co)
- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371
- INTC 1355 Prerequisite(s): INTC 1341
- INTC 2336 Prerequisite(s): RBTC 1301 (Prerequisite or Corequisite)
- RBTC 1301, INTC 1348 Prerequisite(s): ELPT 1341
- INTC 1350 Prerequisite(s): RBTC 1301
- INTC 1356, INTC 2333, INTC 2310 Prerequisite(s): INTC 1355
- INTC 2350 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)

Mathematics

Description

The Mathematics department supports and enhances TSTC's technical education mission. It helps to provide Texas industry with employees who perform well at entry level positions through their competence in mathematics and problem solving techniques. Students learn the principles of physics and mathematics. They use this knowledge to prepare for advancement in the workplace through the acquisition of science- and mathematics-based problem solving skills, and facilitates progress toward successful completion of further educational goals and/or lifelong learning experiences.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Mathematics - Mathematics AS

Locations

Harlingen

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
    - MATH2312 - Pre-Calculus Math (3 SCH version) (3)
    - ENGL1301 - Composition I (3)
    - ACGM3CAR - Creative Arts Elective (3)

Semester 2
13 Total Credits

- Complete the following:
    - MATH2413 - Calculus I (4 SCH version) (4)
    - ENGL1302 - Composition II (3)
    - GOVT2305 - Federal Government (Federal constitution & topics) (3)
    - ACGM3LPS - Life and Physical Science Elective (3)

Semester 3
13 Total Credits

- Complete the following:
    - MATH2414 - Calculus II (4 SCH version) (4)
    - GOVT2306 - Texas Government (Texas constitution & topics) (3)
    - ACGM3LPS - Life and Physical Science Elective (3)
    - ACGM3LPC - Language, Philosophy and Culture Elective (3)

Semester 4
10 Total Credits

- Complete the following:
    - MATH2415 - Calculus III (4 SCH version) (4)
    - Course Not Found
    - HIST1301 - United States History I (3)
    - ACGM3CAOB - Component Area Option (3)

Semester 5
9 Total Credits

- Complete the following:
    - HIST1302 - United States History II (3)
    - MATH2320 - Differential Equations (3 SCH version) (3)
    - Course Not Found
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **54**

Capstone

- Complete the following:
    - MATH2320 - Differential Equations (3 SCH version) (3)

Pre/Corequisites

- MATH 2312 Prerequisite(s): MATH 1314 or MATH 1316
- MATH 2413 Prerequisite(s): (MATH 1314 and MATH 1316 *) or MATH 2312 or MATH 2412
- ENGL 1302 Prerequisite(s): ENGL 1301
- MATH 2414 Prerequisite(s): MATH 2413
- MATH 2415, MATH 2320 Prerequisite(s): MATH 2414
- MATH 2320 Prerequisite(s): MATH 2414

Elective Options

- Complete at least 1 courses from the following:
  Creative Arts Elective
  - ARTS1301 - Art Appreciation (3)
  - MUSI1306 - Music Appreciation (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:
  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:
  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:
  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 courses from the following:
  Math Elective for Math AS
  - MATH1316 - Plane Trigonometry(3)
  - MATH1332 - Contemporary Mathematics (Quantitative Reasoning)(3)
  - MATH1314 - College Algebra (3 SCH version)(3)
  - MATH2318 - Linear Algebra(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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Mechatronics Technology - Mechatronics Technology - Basic Electromechanical Automation (AM) OSA

Locations

Waco
Harlingen
Fort Bend County
Sweetwater
Marshall

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - CETT1302 - Electricity Principles (3)
  - RBTC1347 - Electro-Mechanical Devices (3)
  - MECH1372 - Basic Programmable Logic Controllers (3)

Degree Plan Credits **9**

Pre/Corequisites

- MECH 1372 Prerequisite(s): CETT 1305

Mechatronics Technology - Mechatronics Technology - Smart Automation (AM) OSA

Locations

Harlingen

Program Requirements

Semester 1
11 Total Credits

- Complete the following:
  - MECH2374 - Robotics Communication (3)
  - MECH2472 - Communication Protocols (4)
  - MECH2471 - Industrial Control Devices (4)

Degree Plan Credits **11**

Pre/Corequisites

- Complete all of the following
  - MECH 2374, MECH 2472 Prerequisite(s); ELPT 1320 or CETT 1305
  - MECH 2471 Prerequisite(s): MECH 1373

Mechatronics Technology - Mechatronics Technology AAS

Locations

Harlingen

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - ELPT1319 - Fundamentals of Electricity I (3)
  - MECH1370 - Introduction to Mechatronics (3)
  - ENGL1301 - Composition I (3)
  - MATH1314 - College Algebra (3 SCH version) (3)

Semester 2
10 Total Credits

- Complete the following:
  - ELPT1320 - Fundamentals of Electricity II (3)
  - MECH1371 - Industry Digital Devices (3)
  - MECH1471 - Hydraulic and Pneumatic Systems (4)
  - Course Not Found

Semester 3
13 Total Credits

- Complete the following:
  - MECH1372 - Basic Programmable Logic Controllers (3)
  - MECH1373 - Motion Control (3)
  - MECH2374 - Robotics Communication (3)
  - MECH2472 - Communication Protocols (4)

Semester 4
13 Total Credits

- Complete the following:
  - MECH2370 - Industrial Process Controls (3)
  - MECH2372 - Essentials to Advance PLC (3)
  - MECH2375 - Production Control (3)
  - MECH2471 - Industrial Control Devices (4)

Semester 5
9 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - MECH2378 - Internship-Mechatronics Technology (3)
    - MECH2373 - Industry 4.0 Project (3)
  - Complete the following:
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
  - MECH2373 - Industry 4.0 Project (3)

Pre/Corequisites

- CETT 1320 Prerequisite(s): ELPT 1319 ((Prerequisite or Corequisite)) or CETT 1303 (Prerequisite or Corequisite)
- MECH 1371 Prerequisite(s): ELPT 1319 ((Prerequisite or Corequisite)) or CETT 1303 (Prerequisite or Corequisite)
- MECH 1372, MECH 1373, MECH 2370, MECH 2375 Prerequisite(s): ELPT 1320 or CETT 1305
- MECH 2372 Prerequisite(s): MECH 1372
- MECH 2471 Prerequisite(s): MECH 1373
- MECH 2373 Prerequisite(s): MECH 2472, MECH 1373

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)

Occupational Safety & Environmental Compliance Technology

Description

The Occupational Safety and Environmental Compliance Technology (OSE) offers in-depth study of Occupational Safety and Health Administration regulations, Environmental Protection Agency 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 OSE 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 Technology 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Occupational Safety & Environmental Compliance Technology - Occupational Safety & Environmental Compliance Technology - Environmental Compliance CER1

Locations

Abilene
Fort Bend County
Waco

Program Requirements

Semester 1
14 Total Credits

- Complete the following:
  - EPCT1243 - Treatment, Remediation, and Disposal Techniques (2)
  - EPCT1205 - Environmental Regulations Overview (2)
  - OSHT1305 - OSHA Regulations - Construction Industry (3)
  - EPCT2337 - Site Assessment (3)
  - OSHT2401 - 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)
  - 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 - Occupational Safety CER1

Locations

Abilene
Fort Bend County
Waco

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

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)
    - OSHT1305 - 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:
  - OSHT1313 - Accident Prevention, Inspection, & Investigation (3)
  - ITSC1309 - Integrated Software Applications I (3)
  - OSHT2401 - 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)
  - OSHT1209 - Physical Hazards Control (2)
  - OSHT2209 - 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)
  - 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 **60**

Capstone

- Complete the following:
  - OSHT2320 - Safety Training Presentation Techniques (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 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)
  - 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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Physics - Physics AS

Locations

Harlingen

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - ENGL1301 - Composition I (3)
  - MATH2312 - Pre-Calculus Math (3 SCH version) (3)
  - ACGM3CAR - Creative Arts Elective (3)

Semester 2
14 Total Credits

- Complete the following:
  - ENGL1302 - Composition II (3)
  - CHEM1111 - General Chemistry I (lab) (1)
  - CHEM1311 - General Chemistry I (lecture) (3)
  - GOVT2305 - Federal Government (Federal constitution & topics) (3)
  - MATH2413 - Calculus I (4 SCH version) (4)

Semester 3
14 Total Credits

- Complete the following:
  - CHEM1112 - General Chemistry II (lab) (1)
  - CHEM1312 - General Chemistry II (lecture) (3)
  - GOVT2306 - Texas Government (Texas constitution & topics) (3)
  - MATH2414 - Calculus II (4 SCH version) (4)
  - ACGM3LPC - Language, Philosophy and Culture Elective (3)

Semester 4
10 Total Credits

- Complete the following:
  - HIST1301 - United States History I (3)
  - PHYS2125 - University Physics Laboratory I (lab) (1)
  - PHYS2325 - University Physics I (lecture) (3)
  - Course Not Found
  - ACGM3CAOB - Component Area Option (3)

Semester 5
10 Total Credits

- Complete the following:
  - HIST1302 - United States History II (3)
  - PHYS2126 - University Physics Laboratory II (lab) (1)
  - PHYS2326 - University Physics II (lecture) (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
  - PHYS2126 - University Physics Laboratory II (lab) (1)
  - PHYS2326 - University Physics II (lecture) (3)

Pre/Corequisites

- MATH 2312 Prerequisite(s): MATH 1314 or MATH 1316
- ENGL 1302 Prerequisite(s): ENGL 1301
- CHEM 1111 Prerequisite(s): CHEM 1311 (Corequisite)
- CHEM 1311 Prerequisite(s): MATH 1314, CHEM 1111 (Corequisite)
- MATH 2413 Prerequisite(s): (MATH 1314 and MATH 1316) or MATH 2312 or MATH 2412
- CHEM 1112 Prerequisite(s): CHEM 1312 (Corequisite)
- CHEM 1312 Prerequisite(s): CHEM 1111, CHEM 1311, CHEM 1112 (Corequisite)
- MATH 2414 Prerequisite(s): MATH 2413
- PHYS 2125 Prerequisite(s): PHYS 2325 (Corequisite)
- PHYS 2325 Prerequisite(s): MATH 2413, PHYS 2125 (Corequisite)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Plumbing & Pipefitting Technology - Plumbing & Pipefitting Technology - Apprentice with Endorsements CER1

Locations

Waco

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - PFPB1306 - Basic Blueprint Reading for Plumbers (3)
  - PFPB1323 - Plumbing Codes I (3)
  - PFPB2308 - Piping Standards and Materials (3)
  - PFPB2309 - Residential Construction Plumbing I (3)
  - PFPB1321 - Plumbing Maintenance and Repair (3)

Degree Plan Credits **15**

Capstone

- Complete the following:
  - PFPB1323 - Plumbing Codes I (3)

Plumbing & Pipefitting Technology - Plumbing & Pipefitting Technology - Journeyman AAS

Locations

Waco

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - PFPB1306 - Basic Blueprint Reading for Plumbers (3)
  - PFPB1323 - Plumbing Codes I (3)
  - PFPB2309 - Residential Construction Plumbing I (3)
  - OSHT1305 - OSHA Regulations - Construction Industry (3)

Semester 2
12 Total Credits

- Complete the following:
  - PFPB1321 - Plumbing Maintenance and Repair (3)
  - PFPB1347 - Backflow Prevention (3)
  - PFPB2343 - Advanced Pipe Practices (3)
  - PFPB1319 - Commercial Plumbing I (3)

Semester 3
12 Total Credits

- Complete the following:
  - CBFM1303 - Boiler Maintenance (3)
  - PFPB2345 - Residential Construction Plumbing II (3)
  - PFPB2336 - Commercial Construction and Fixture Setting (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 4
12 Total Credits

- Complete all of the following
  - Complete the following:
    - CNBT1346 - Construction Estimating I (3)
    - BMGT1309 - Information and Project Management (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:
  - PFPB2357 - Plumbing Codes II (3)
  - PFPB2315 - Intermediate Technologies for Piping Trades (3)
  - ACGM3GED - Gen Ed Elective (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - PFPB2357 - Plumbing Codes II (3)

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)
  - 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)
  - 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)

Plumbing & Pipefitting Technology - Plumbing & Pipefitting Technology - Tradesman CER1

Locations

Waco

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - PFPB1306 - Basic Blueprint Reading for Plumbers (3)
  - PFPB1323 - Plumbing Codes I (3)
  - PFPB2308 - Piping Standards and Materials (3)
  - PFPB1321 - Plumbing Maintenance and Repair (3)
  - PFPB2349 - Field Measuring, Sketching, and Layout (3)

Semester 2
12 Total Credits

- Complete the following:
  - PFPB2309 - Residential Construction Plumbing I (3)
  - PFPB1347 - Backflow Prevention (3)
  - PFPB2336 - Commercial Construction and Fixture Setting (3)
  - PFPB2343 - Advanced Pipe Practices (3)

Semester 3
6 Total Credits

- Complete the following:
  - PFPB1682 - Cooperative Education - Plumbing Technology/Plumber (6)

Degree Plan Credits **33**

Capstone

- Complete the following:
  - PFPB1682 - Cooperative Education - Plumbing Technology/Plumber (6)

Pre Allied Health

Description

This program establishes a robust foundation for your journey toward advanced education and training in various Allied Health fields.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Pre Allied Health - Pre-Allied Health CER2

Locations

Online - TSTC Connect

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 at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

Degree Plan Credits **34**

Capstone

- Complete the following:
    - BIOL2302 - Anatomy & Physiology II (lecture) (3)
    - BIOL2102 - Anatomy & Physiology II (lab) (1)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Precision Machining Technology - Precision Machining Technology - Basic Machining (AM) OSA

Locations

Waco
East Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - MCHN1300 - Beginning Machine Shop (3)
  - MCHN1302 - Print Reading for Machining Trades (3)
  - MCHN1320 - Precision Tools and Measurement (3)

Degree Plan Credits **9**

Precision Machining Technology - Precision Machining Technology - CNC Machine Operator CER1

Locations

Waco
East Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - MCHN1300 - Beginning Machine Shop (3)
  - MCHN1302 - Print Reading for Machining Trades (3)
  - MCHN1320 - Precision Tools and Measurement (3)
  - MCHN1343 - Machine Shop Mathematics (3)

Semester 2
13 Total Credits

- Complete the following:
  - MCHN1371 - Engineering Computer Graphics I (3)
  - MCHN1438 - Basic Machine Shop I (4)
  - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)
  - MCHN2344 - Computerized Numerical Control Programming (3)

Degree Plan Credits **25**

Capstone

- Complete the following:
  - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)

Pre/Corequisites

- MCHN 1438 Prerequisite(s): MCHN 1300
- MCHN 2344 Prerequisite(s): MCHN 1302

Precision Machining Technology - Precision Machining Technology - Industrial Manufacturing Processes (AM) OSA

Locations

Waco
East Williamson County
Harlingen
Marshall
North Texas
Fort Bend County

Program Requirements

Semester 1
10 Total Credits

- Complete the following:
  - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
  - DFTG1325 - Blueprint Reading and Sketching (3)
  - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)

Degree Plan Credits **10**

Precision Machining Technology - Precision Machining Technology AAS

Locations

Waco
East Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - MCHN1300 - Beginning Machine Shop (3)
  - MCHN1302 - Print Reading for Machining Trades (3)
  - MCHN1320 - Precision Tools and Measurement (3)
  - MATH1314 - College Algebra (3 SCH version) (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 2
16 Total Credits

- Complete the following:
  - MCHN1371 - Engineering Computer Graphics I (3)
  - MCHN1438 - Basic Machine Shop I (4)
  - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)
  - MCHN2344 - Computerized Numerical Control Programming (3)
  - MATH1316 - Plane Trigonometry (3)

Semester 3
13 Total Credits

- Complete the following:
  - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)
  - MCHN1454 - Intermediate Machining II (4)
  - MCHN2335 - Advanced CNC Machining (3)
  - ENGL1301 - Composition I (3)

Semester 4
16 Total Credits

- Complete the following:
  - ENTC2310 - Machine Design (3)
  - MCHN2338 - Advanced Computer-Aided Manufacturing (CAM) (3)
  - MCHN2341 - Advanced Machining I (3)
  - MCHN2447 - Specialized Tools and Fixtures (4)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - ENTC2310 - Machine Design (3)

Pre/Corequisites

- MCHN 1438 Prerequisite(s): MCHN 1300
- MCHN 2344 Prerequisite(s): MCHN 1302
- MCHN 1326 Prerequisite(s): MCHN 1371 or DFTG 1309
- MCHN 1454 Prerequisite(s): MCHN 1438
- MCHN 2335 Prerequisite(s): MCHN 2303
- ENTC 2310 Prerequisite(s): MCHN 1326, MCHN 1371
- MCHN 2338 Prerequisite(s): MCHN 1326
- MCHN 2341 Prerequisite(s): MCHN 1454
- MCHN 2447 Prerequisite(s): MCHN 1438

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
East Williamson County
Harlingen
Fort Bend County
Marshall
North Texas

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - MCHN1300 - Beginning Machine Shop (3)
  - MCHN1302 - Print Reading for Machining Trades (3)
  - MCHN1320 - Precision Tools and Measurement (3)
  - MCHN1343 - Machine Shop Mathematics (3)

Semester 2
13 Total Credits

- Complete the following:
  - MCHN1371 - Engineering Computer Graphics I (3)
  - MCHN1438 - Basic Machine Shop I (4)
  - MCHN2303 - Fundamentals of Computer Numerical Controlled (CNC) Machine Controls (3)
  - MCHN2344 - Computerized Numerical Control Programming (3)

Semester 3
14 Total Credits

- Complete the following:
  - MCHN1326 - Introduction to Computer-Aided Manufacturing (CAM) (3)
  - MCHN1454 - Intermediate Machining II (4)
  - MCHN2335 - Advanced CNC Machining (3)
  - MCHN2447 - Specialized Tools and Fixtures (4)

Degree Plan Credits **39**

Capstone

- Complete the following:
  - MCHN2471 - Specialized Equipment and Processes (4)

Pre/Corequisites

- MCHN 1438 Prerequisite(s): MCHN 1300
- MCHN 2344 Prerequisite(s): MCHN 1302
- MCHN 1326 Prerequisite(s): MCHN 1371 or DFTG 1309
- MCHN 1454 Prerequisite(s): MCHN 1438
- MCHN 2335 Prerequisite(s): MCHN 2303
- MCHN 2447 Prerequisite(s): MCHN 1438

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Process Operations - Process Operations

Locations

Marshall

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - PTAC1302 - Introduction to Process Technology (3)
  - PTAC1308 - Safety, Health, and Environment I (3)
  - PTRT1317 - Natural Gas Processing I (3)
  - TECM1303 - Technical Calculations (3)

Semester 2
10 Total Credits

- Complete the following:
  - PTAC1332 - Process Instrumentation I (3)
  - PTAC1410 - Process Technology I - Equipment (4)
  - PTRT2323 - Natural Gas Production (3)

Semester 3
8 Total Credits

- Complete the following:
  - PTAC2420 - Process Technology II - Systems (4)
  - PTAC1454 - Industrial Processes (4)

Semester 4
11 Total Credits

- Complete the following:
  - PTAC2438 - Process Technology III - Operations (4)
  - PTAC2314 - Principles of Quality (3)
  - PTAC2446 - Process Troubleshooting (4)

Degree Plan Credits **41**

Capstone

- Complete at least 3 credits from the following:
  - INEW2332 - Comprehensive Software Project: Coding, Testing, and Implementation (3)
  - ITSE2380 - Cooperative Education - Computer Programming/Programmer, General (3)
  - ITSE2386 - Internship - Computer Programming/Programmer, General (3)

Pre/Corequisites

- PTAC 1332, PTAC 2420 Prerequisite(s): PTAC 1410 (Prerequisite or Corequisite)
- PTAC 1410 Prerequisite(s): PTAC 1332 (Prerequisite or Corequisite)

Process Operations - Process Operations (AM) OSA

Locations

Marshall

Program Requirements

Semester 1
11 Total Credits

- Complete the following:
  - PTAC2314 - Principles of Quality (3)
  - PTAC2438 - Process Technology III - Operations (4)
  - PTAC2446 - Process Troubleshooting (4)

Degree Plan Credits **11**

Process Operations - Process Operations AAS

Locations

Marshall

Program Requirements

Semester 1
12 Total Credits

- Complete all of the following
  - Complete the following:
    - PTAC1302 - Introduction to Process Technology (3)
    - PTAC1308 - Safety, Health, and Environment I (3)
    - PTRT1317 - Natural Gas Processing I (3)
  - Complete at least 3 credits from the following:
    - MATH1314 - College Algebra (3 SCH version) (3)
    - MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)

Semester 2
13 Total Credits

- Complete the following:
  - PTRT2323 - Natural Gas Production (3)
  - PTAC1332 - Process Instrumentation I (3)
  - PTAC1410 - Process Technology I - Equipment (4)
  - SCIT1318 - Applied Physics (3)

Semester 3
12 Total Credits

- Complete the following:
  - SCIT1414 - Applied General Chemistry I (4)
  - PTAC2420 - Process Technology II - Systems (4)
  - PTAC1454 - Industrial Processes (4)

Semester 4
14 Total Credits

- Complete all of the following
  - Complete the following:
    - PTAC2438 - Process Technology III - Operations (4)
    - PTAC2314 - Principles of Quality (3)
    - PTAC2446 - Process Troubleshooting (4)
  - 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:
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - ACGM3GED - Gen Ed Elective (3)

Degree Plan Credits **60**

Capstone

- Complete at least 3 credits from the following:
  - INEW2332 - Comprehensive Software Project: Coding, Testing, and Implementation (3)
  - ITSE2380 - Cooperative Education - Computer Programming/Programmer, General (3)
  - ITSE2386 - Internship - Computer Programming/Programmer, General (3)

Pre/Corequisites

- PTAC 1332 Prerequisite(s): PTAC 1410 (Prerequisite or Corequisite)
- PTAC 1410 Prerequisite(s): PTAC 1332 (Prerequisite or Corequisite)
- PTAC 2420 Prerequisite(s): PTAC 1410

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

Robotics & Industrial Controls Technology

Description

TSTC's Robotics and Industrial Controls Technology program prepares students for a job in this exploding career field. This option emphasizes the study of complex mechanical systems in computer-integrated manufacturing environments. Focusing on automated manufacturing processes and the role of robots and associated supporting equipment, coursework covers motion programming, vision and conveyor systems, computer networking, PLC programming, automated sorting, sensor systems, computer integration, and machine interfacing.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Robotics & Industrial Controls Technology - Robotics & Industrial Controls Technology AAS

Locations

Waco
Fort Bend County

Program Requirements

Semester 1
9 Total Credits

- Complete the following:
  - CETT1303 - DC Circuits (3)
  - Course Not Found
  - RBTC1343 - Robotics (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:
    - ENGL1301 - Composition I (3)
    - ENGL2311 - Technical & Business Writing (3)

Semester 3
12 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - PHYS1310 - Elementary Physics (3)
    - PHYS1315 - Physical Science I (lecture) (3)
  - Complete the following:
    - RBTC1301 - Programmable Logic Controllers (3)
    - RBTC1355 - Sensors (3)
    - RBTC2339 - Robot Programming and Diagnostics (3)

Semester 4
12 Total Credits

- Complete all of the following
  - Complete the following:
    - RBTC1341 - Vision Systems (3)
    - RBTC1345 - Robot Interfacing (3)
    - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)
  - Complete at least 3 credits from the following:
    - RBTC1371 - Industrial Motors and Drives (3)
    - CETT1325 - Digital Fundamentals (3)

Semester 5
12 Total Credits

- Complete all of the following
  - Complete at least 3 credits from the following:
    - RBTC2375 - Human Machine Interface Programming and Interfacing (3)
    - RBTC2335 - Numerical Controlled/Computer Numerical Control Programming (3)
  - Complete the following:
    - RBTC2345 - Robot Application, Set-up, and Testing (3)
    - RBTC2347 - Computer Integrated Manufacturing (3)
    - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **57**

Capstone

- Complete the following:
  - RBTC2345 - Robot Application, Set-up, and Testing (3)
  - RBTC2347 - Computer Integrated Manufacturing (3)

Pre/Corequisites

- CETT 1305 Prerequisite(s): CETT 1303 or IEIR 1302
- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371
- RBTC 1301 Prerequisite(s): ELPT 1341
- RBTC 1355 Prerequisite(s): RBTC 1347
- RBTC 2339 Prerequisite(s): RBTC 1343
- RBTC 1341 Prerequisite(s): RBTC 2339
- RBTC 1345 Prerequisite(s): RBTC 2339, RBTC 1347, RBTC 1301
- RBTC 1371 Prerequisite(s): RBTC 1301, ELPT 1341
- CETT 1325 Prerequisite(s): CETT 1302, CETT 1303, IEIR 1302, IEIR 1304, IEIR 1371 or CETT 1305
- RBTC 2375, RBTC 2335, RBTC 2345, RBTC 2347 Prerequisite(s): RBTC 1345, RBTC 1301

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)

Robotics & Industrial Controls Technology - Robotics & Industrial Controls Technology CER2

Locations

Waco
Fort Bend County

Program Requirements

Semester 1
6 Total Credits

- Complete the following:
    - CETT1303 - DC Circuits (3)
    - Course Not Found
    - RBTC1343 - Robotics (3)

Semester 2
9 Total Credits

- Complete the following:
    - CETT1305 - AC Circuits (3)
    - ELPT1341 - Motor Control (3)
    - RBTC1347 - Electro-Mechanical Devices (3)

Semester 3
9 Total Credits

- Complete the following:
    - RBTC1301 - Programmable Logic Controllers (3)
    - RBTC1355 - Sensors (3)
    - RBTC2339 - Robot Programming and Diagnostics (3)

Semester 4
9 Total Credits

- Complete the following:
    - RBTC1341 - Vision Systems (3)
    - RBTC1345 - Robot Interfacing (3)
    - RBTC1371 - Industrial Motors and Drives (3)

Degree Plan Credits **33**

Capstone

- Complete the following:
    - RBTC1345 - Robot Interfacing (3)

Pre/Corequisites

- RBTC 1343, CETT 1305 Prerequisite(s): CETT 1303 or IEIR 1302
- ELPT 1341 Prerequisite(s): AACT 1371 or ELPT 1311 or CETT 1303 or IEIR 1371
- RBTC 1301 Prerequisite(s): ELPT 1341
- RBTC 1355 Prerequisite(s): RBTC 2339, RBTC 1347
- RBTC 2339 Prerequisite(s): RBTC 1343
- RBTC 1341 Prerequisite(s): RBTC 2339
- RBTC 1345 Prerequisite(s): RBTC 2339, RBTC 1347, RBTC 1301
- RBTC 1371 Prerequisite(s): RBTC 1301, ELPT 1341

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Solar Energy Technology - Solar Energy Technology - Energy Efficiency Specialist CER1

Locations

Waco

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - ELPT2337 - Electrical Planning and Estimating (3)
  - RBPT1370 - Building Envelope Inspection (3)
  - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
  - SOLR2377 - Codes for Alternative Energy, Efficiency & Conservation (3)

Semester 2
12 Total Credits

- Complete the following:
  - OSHT1305 - OSHA Regulations - Construction Industry (3)
  - RBPT2325 - Energy Rating Systems for Homes (3)
  - ELPT1325 - National Electrical Code I (3)
  - RBPT2359 - Residential Building Performance Consulting (3)

Degree Plan Credits **24**

Capstone

- Complete the following:
  - RBPT2359 - Residential Building Performance Consulting (3)

Solar Energy Technology - Solar Energy Technology AAS

Locations

Waco

Program Requirements

Semester 1
15 Total Credits

- Complete the following:
  - ELPT1329 - Residential Wiring (3)
  - ELPT1311 - Basic Electrical Theory (3)
  - RBPT1370 - Building Envelope Inspection (3)
  - SOLR1371 - Introduction to Solar and Alternative Energy Technologies (3)
  - SOLR2377 - Codes for Alternative Energy, Efficiency & Conservation (3)

Semester 2
15 Total Credits

- Complete the following:
  - ELPT1325 - National Electrical Code I (3)
  - RBPT2325 - Energy Rating Systems for Homes (3)
  - ELPT1345 - Commercial Wiring (3)
  - RBPT2359 - Residential Building Performance Consulting (3)
  - SOLR1372 - Foundations of Solar Photovoltaic Power Generation (3)

Semester 3
15 Total Credits

- Complete the following:
  - ELPT1357 - Industrial Wiring (3)
  - OSHT1305 - OSHA Regulations - Construction Industry (3)
  - ENGL1301 - Composition I (3)
  - ACGM3GED - Gen Ed Elective (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 4
15 Total Credits

- Complete the following:
  - ELPT2337 - Electrical Planning and Estimating (3)
  - SOLR2375 - Solar System Design, Installation, Troubleshooting & Repair (3)
  - SOLR2376 - Special Projects in Solar Energy Systems (3)
  - ACGM3MNS - Gen Ed Math/Natural Science Elective (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (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

- ELPT 1357 Prerequisite(s): ELPT 1329

Elective Options

- 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)
    - 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)

Surgical Technology

Description

Surgical technologists assist in operations under the supervision of surgeons, registered nurses or other surgical personnel. Before an operation, surgical technologists help set up the operating room with surgical instruments, equipment and sterile solutions. During surgery, technologists pass instruments and other sterile supplies to surgeons and surgeon assistants. They may hold retractors, cut sutures, and help count sponges, needles, supplies and instruments. Surgical technologists help prepare, care for and dispose of specimens taken for laboratory analysis and may help apply dressings. This program provides classroom education and supervised clinical experience. Studies cover the care and safety of patients during surgery, aseptic techniques and surgical procedures. Students also learn to sterilize instruments, prevent and control infection, and handle special drugs, solutions, supplies and equipment. Surgical technologists must possess manual dexterity to handle instruments efficiently and quickly. They also must be conscientious, orderly, and emotionally stable to handle the demands of the operating room environment. Technologists must respond quickly and have a full understanding of the procedures so that they may anticipate the needs of surgeons without having to be asked for instruments or supplies. Students participating in clinical and field internships are required to purchase accident, needlestick, and malpractice insurance.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Surgical Technology - Surgical Technology - Sterile Processing OSA

Locations

Harlingen

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

Program Requirements

Semester 1
13 Total Credits

- Complete all of the following
  - Complete the following:
    - ENGL1301 - Composition I (3)
    - PSYC2301 - General Psychology (3)
  - Complete at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)
  - 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
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 3
11 Total Credits

- Complete all of the following
  - Complete the following:
    - SRGT1541 - Surgical Procedures I (5)
    - SRGT1244 - Technological Sciences for the Surgical Technologist (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)

Semester 4
12 Total Credits

- Complete the following:
  - SRGT1461 - Clinical - Surgical Technology/Technologist (4)
  - SRGT1542 - Surgical Procedures II (5)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Semester 5
12 Total Credits

- Complete all of the following
  - Complete the following:
    - SRGT2462 - Clinical - Surgical Technology/Technologist (4)
    - SRGT2130 - Professional Readiness (1)
  - Complete at least 3 credits from the following:
    - MATH1332 - Contemporary Mathematics (Quantitative Reasoning) (3)
    - MATH1314 - College Algebra (3 SCH version) (3)
  - 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)

Degree Plan Credits **60**

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)

Vocational Nursing

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 80% or higher in each nursing course with the exception of A&P I and II, in which a grade of 70 or higher is acceptable.

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1101 College Success, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Vocational Nursing - Vocational Nursing CER2

Locations

Breckenridge
Harlingen
Sweetwater

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 at least 3 credits from the following:
    - HPRS2302 - Medical Terminology for Allied Health (3)
    - HPRS1206 - Essentials of Medical Terminology (2)

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)

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Web Design & Development - Web Design & Development - Web Developer CER2

Locations

Online - TSTC Connect

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)
  - IMED2313 - Project Analysis and Design (3)

Degree Plan Credits **36**

Capstone

- Complete the following:
  - IMED2345 - Interactive Digital Media II (3)

Pre/Corequisites

- IMED 1316 Prerequisite(s): ARTC 1302 (Prerequisite or Corequisite) or ITSE 1311 (Prerequisite or Corequisite) or 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

Web Design & Development - Web Design & Development AAS

Locations

Online - TSTC Connect

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)
  - IMED2313 - Project Analysis and Design (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Semester 5
12 Total Credits

- Complete the following:
  - IMED2311 - Portfolio Development (3)
  - IMED2351 - Digital Media Programming (3)
  - IMED2388 - Internship - Digital Communication and Media/Multimedia (3)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - IMED2388 - Internship - Digital Communication and Media/Multimedia (3)
  - IMED2311 - Portfolio Development (3)

Pre/Corequisites

- IMED 1316 Prerequisite(s): ARTC 1302 (Prerequisite or Corequisite) or ITSE 1311 (Prerequisite or Corequisite) or 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 2345, IMED 2351 Prerequisite(s): ITSE 2302
- IMED 2311, IMED 2388 Prerequisite(s): ITSE 2313, IMED 2309, IMED 2315
- IMED 2388 Prerequisite(s): ITSE 2313, IMED 2309, IMED 2315

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)
  - 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)

Web Design & Development - Web Design & Development Technology - Front End Designer CER1

Locations

Online - TSTC Connect

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): ARTC 1302 (Prerequisite or Corequisite) or ITSE 1311 (Prerequisite or Corequisite) or IMED 1371 (Prerequisite or Corequisite)
- ITSE 2302, IMED 2315, Prerequisite(s): ITSE 1311
- ITSE 2313 Prerequisite(s): IMED 1316
- ITSE 2302 Prerequisite(s): ITSE 1311

Web Design & Development - Web Design & Development Technology - PHP Developer CER1

Locations

Online - TSTC Connect

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): ARTC 1302 (Prerequisite or Corequisite) or ITSE 1311 (Prerequisite or Corequisite) or 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

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.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Welding Technology - Welding Technology - Advanced Pipe CER2

Locations

Abilene
East Williamson County
Fort Bend County
Harlingen
Marshall
North Texas
Waco

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)

Pre/Corequisites

- WLDG 1417 Prerequisite(s): WLDG 1313 (Prerequisite or Corequisite)
- WLDG 1434, WLDG 2413 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- 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
East Williamson County
Harlingen
Fort Bend County
Abilene
Marshall
North Texas

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**

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, WLDG 2413 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- 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
East Williamson County
Harlingen
Fort Bend County
Sweetwater
Abilene
Brownwood
Breckenridge
Marshall
North Texas
New Braunfels

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, WLDG 2413 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- WLDG 2435 Prerequisite(s): WLDG 1417
- WLDG 2443 Prerequisite(s): WLDG 1457

Welding Technology - Welding Technology (AM) OSA

Locations

Waco
East Williamson County
Harlingen
Sweetwater
Fort Bend County
Abilene
Brownwood
Breckenridge
North Texas
Marshall

Program Requirements

Semester 1
12 Total Credits

- Complete the following:
  - WLDG1428 - Introduction to Shielded Metal Arc Welding (SMAW) (4)
  - WLDG1407 - Introduction to Welding Using Multiple Processes (4)
  - WLDG1434 - Introduction to Gas Tungsten Arc (GTAW) Welding (4)

Degree Plan Credits **12**

Pre/Corequisites

- WLDG 1434 Prerequisite(s): WLDG 1407

Welding Technology - Welding Technology AAS

Locations

Abilene
East Williamson County
Fort Bend County
Harlingen
Waco

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 the following:
  - WLDG1327 - Welding Codes and Standards (3)
  - NDTE1310 - Liquid Penetrant/Magnetic Particle Testing (3)
  - WLDG2432 - Welding Automation (4)
  - ACGM3HFA - Gen Ed Humanities/Fine Arts Elective (3)
  - ACGM3SBS - Gen Ed Social/Behavioral Science Elective (3)

Degree Plan Credits **60**

Capstone

- Complete the following:
  - WLDG1327 - Welding Codes and Standards (3)

Pre/Corequisites

- WLDG 1417 Prerequisite(s): WLDG 1313 (Prerequisite or Corequisite)
- WLDG 1434, WLDG 2413 Prerequisite(s): WLDG 1407
- WLDG 1457 Prerequisite(s): WLDG 1428
- WLDG 2435 Prerequisite(s): WLDG 1417
- WLDG 2443 Prerequisite(s): WLDG 1457
- WLDG 1327, NDTE 1310, WLDG 2432 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)
  - 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)
    - 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, learn to troubleshoot materials and machines in factories, as well as offices and production sites. You will also 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'll be qualified to operate and maintain the systems that make a wind turbine function.

First Year Seminar

Students are required to enroll in the First-Year Seminar course, TSTC 1102 Professional Skills, in their first semester attending TSTC unless they have completed more than 24 credit hours. Please see detailed information regarding the course and exemptions in the Catalog and Student Handbook under 07. First Steps at TSTC section 04. First Year Seminar Courses (TSTC 1101 and TSTC 1102).

Wind Energy Technology - Wind Energy Technology AAS

Locations

Harlingen
Sweetwater

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**

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 or IEIR 1302 (Prerequisite or Corequisite)
- CETT 1325, WIND 1371 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
- 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

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

Diesel Eng Mechanic & Repairer

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 manufacturer specific.

Lecture Hours

2

Lab Hours

4

Ext. Con. Hrs

0

Total Contact Hours

96

Credits

3

Semester Credit Hours

3

Non-Course Base Math

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.

Lecture Hours

0

Lab Hours

3

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

Semester Credit Hours

0

Physics

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.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

PHYS1117 - Physical Science Lab II
Course Title

Physical Science Lab II

Academic Level

Undergraduate

Description

Course, designed for non-science majors, that surveys topics from physics, chemistry, geology, astronomy, and meteorology.

Lecture Hours

0

Lab Hours

2

Ext. Con. Hrs

0

Total Contact Hours

32

Credits

1

Semester Credit Hours

1

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.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

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.

Lecture Hours

3

Lab Hours

0

Ext. Con. Hrs

0

Total Contact Hours

48

Credits

3

Semester Credit Hours

3

Special Topics Petroleum

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

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

2

Ext. Con. Hrs

0

Total Contact Hours

64

Credits

3

Semester Credit Hours

3