

COLLEGE CATALOG



Western Tech

MAIN CAMPUS

9624 Plaza Circle • El Paso, Texas 79927
915.532.3737 Phone
800.225.5984 Toll Free
915.532.6946 Fax

BRANCH CAMPUS

9451 Diana • El Paso, Texas 79924
915.566.9621 Phone
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westerntech.edu

WESTERN TECHNICAL COLLEGE LOCATIONS



BRANCH CAMPUS
9451 Diana Drive
El Paso, TX 79924
(915) 566-9621 • 1-800-522-2072



MAIN CAMPUS
9624 Plaza Circle
El Paso, TX 79927
(915) 532-3737 • 1-800-225-5984

WELCOME—BIENVENIDOS
The staff, faculty, and students welcome you to
Western Technical College
Our Mission

The mission of WTC College is to: Provide quality training and education in a caring, professional environment that prepares new students and working adults with the skills they need to succeed and advance in their chosen careers.

ADMINISTRATIVE STAFF AND DEPARTMENT DIRECTORS

Randy Kuykendall	Chair, College Board
Bill Terrell	Vice-Chair, College Board
Brad Kuykendall	Chief Executive Officer
Mary Cano	Chief Operating Officer
Dr. Maxine Valencia	Campus President, Main Campus
Margie Aguilar	Campus President, Branch Campus
Laura Plummer	Controller
Martha Molinar	Human Resource Director
Marco Martinez	Admissions Director
Jose Gutierrez	Director of Field Admissions
Danielle Picchi	Student Financial Services Director
Helen Garcia	Career Services Director
Lynda Cervantes	Marketing Director
Jack Werner	Director of Strategic Partners
Eric Plasencio	IT Director
Javier Zavala	Academic Dean
Dr. Romeline Obonan	Dean of Advanced Degrees / Distance Education Administrator/ Director of Graduate Level Education
Richard Morris	Advanced Welding Program Director
Phil Giner	Automotive & Diesel Mechanics Program Director
Guadalupe Gonzalez	Commercial Driver Training Program Director
Jesus Magana	Master of Business Administration & Baccalaureate of Business Administration Program Director (Branch Campus).
Dr. Juan Maza	Baccalaureate of Business Administration Assistant Program Director (Main Campus)
Dr. Samson Yigezu	Dean of Nursing
Orlando Beltran	Aerospace and Defense Technology & Electronics Engineering Technology Program Director
Gabriela Rzycki	Information Systems and Security Program Director
Roberta Pell	Medical Billing and Coding Program Director
Petra York	Medical Clinical Assistant Program Director
Suzanne Nolan	Physical Therapist Assistant Program Director
Harry Gruber	Refrigeration/HVAC Technology Program Director

TABLE OF CONTENTS

Accreditation/Approvals5
WTC
History.....6
Facilities7
Admissions9
International Students.....18
Transfer Credits.....20
Student Financial Services21
Cancellation & Refund-Policy.....27
Program Offerings.....35
Certificate Programs.....35
Certificate of Completion in Advanced Welding Technology.....35
Certificate of Completion in Commercial Driver Training.....38
Certificate of Completion in Diesel Advanced Technology Education (D.A.T.E.).....41
Certificate of Completion in Medical Billing And Coding45
Certificate of Completion in Medical Clinical Assistant50
Associate of Occupational Studies Degrees56
Associate of Occupational Studies in Automotive Technology.....56
Associate of Occupational Studies in Diesel Mechanics64
Associate of Occupational Studies in Refrigeration and HVAC Technology.....74
Associate of Applied Science Degrees.....81
Associate of Applied Science in Aerospace and Defense Technology81
Associate of Applied Science in Electronics Engineering Technology86
Associate of Applied Science in Information Systems and Security92
Associate of Applied Science in Physical Therapist Assistant98
Bachelor Degrees107
Bachelor in Business Administration.....107
Bachelor of Science in Nursing.....118
Bachelor of Science in Technical Management.....133
Master Degree145
Master of Business Administration.....145
General Education Courses151
Policies and Standards.....156
Support Services.....161
Career Services.....162
Student Code of Conduct164
Title IX & Sex Discrimination.....168
Safety & Security169
Internship/Clinical Requirements.....169
General Information171

ACCREDITATION/APPROVALS



(The original accreditation and licensure documents are displayed at each campus)

ACCREDITATION

Western Technical College is accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC) which is listed by the U.S. Department of Education (USDOE) as a Nationally recognized accrediting agency.

APPROVALS

Western Technical College is approved and regulated by the Texas Workforce Commission (TWC) Career Schools and Colleges Section, Austin, Texas. WTC’s degree-granting programs are approved and regulated by the Texas Higher Education Coordinating Board (THECB). WTC’s Nursing Program is regulated by the Texas Board of Nursing. The Physical Therapist Assistant program is programmatically accredited by the Commission on Accreditation in Physical Therapy education. The Medical Clinical Assistant program is Programmatically Accredited by the Commission on Accreditation of Allied Health Education. The College’s programs are approved to train veterans by the Texas Workforce Commission, Texas Veterans Commission, and foreign students by the U.S. Department of Immigration and Naturalization (INS).

NOTE: (Colorado students only) - Agents licensed by the Colorado Department of Higher Education, Private Occupational School Board.

WTC Website Address: www.westerntech.edu

Western Technical College 9624 Plaza Circle El Paso, Texas 79927 (915)532-3737 or (915)760-8100/01 (915)532-6946 (fax)	Western Technical College 9451 Diana Drive El Paso, Texas 79924 (915)566-9621 or (915)231-4900/01 (915)565-9903 (fax)
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HOURS OF OPERATION

School Operations 7:00 am-10:00 pm
 Office Hours: 8:00 am-8:00 pm, Monday thru Thursday
 Office Hours: Friday, 8:00 am – 4:30 pm

I certify that the information presented in this catalog is correct and true to the best of my knowledge and belief. The contents of this catalog are subject to change without notice.

Brad Kuykendall

Brad Kuykendall
 CEO

Catalog Volume 1004
 Effective September 2021-September 2022

HISTORY

Western Technical College (WTC) started operation on January 1, 1970, and since that time has expanded both in size and enrollment. January 1, 2020 marked WTC’s 50 years in business. It started with a basic welding curriculum and new programs have been added periodically. Refrigeration and Air Conditioning was added in 1971, and in 1975, Automotive Mechanics began.

In January of 1979, El Paso Trade School became accredited by the National Association of Trade and Technical Schools (NATTS), which is now known as the Accrediting Commission of Career Schools and Colleges (ACCSC). In 1980, the school expanded by adding a branch campus, and added the following programs: 1980, Electronics; 1983 Microcomputer Technology; 1984 Medical Assisting (name Change occurred in 2014 to Medical Clinical Assistant); 1985 AOS Degree in Automotive Technology and AOS Degree in Refrigeration/HVAC Technology; 1994 Health Information Technology (name change to Medical Billing and Coding in 2013). In June of 1986, the school underwent a name change. Since the previous name, El Paso Trade School, no longer accurately reflected the “high tech” courses taught at the school, the name was changed to Western Technical Institute (WTI). The branch campus moved to a more modern facility in 2001. The Microcomputer Technology program was split to become two distinct tracks: Electronics Engineering Technology and Information Systems and Security (AOS Degrees, converted to AAS Degrees in 2009). In 2001, we began Massage Therapy (discontinued in 2004; reactivated in 2006 and discontinued again in 2020), and in 2007, WTC offered its first AAS Degree program in Physical Therapist Assistant. In 2015, WTC began offering an AAS in Business Administration and Management (discontinued in 2019), and in 2017, the school offered its first baccalaureate degree program in Business Administration (BBA).

Upon expert advice from employer advisory boards, the courses and programs at WTC are constantly updated to conform to industry needs. As a result of the changes to the programs and locations, in March of 2005, the school underwent another name change. The name Western Technical College is more modern, up-to-date, and better reflects the careers and degrees offered by the College. The main campus relocated into a spacious 150,000 square foot facility in late 2005. The main campus was approved to offer the following certificate programs: Performance Tuner (PT), Diesel Mechanics (converted to an AOS Degree in 2008), and Pipe Welding (Combined with Structural Welding in 2010 to become the current Advanced Welding Program). In 2014, WTC began two separate specialty tracks for Automotive Technology; one in Light Duty Diesel (LDD) and the other in Performance Tuner, and the certificate programs in these areas were taught out.

In December 2014, WTC was approved at the branch campus to begin offering distance education. The launch occurred on February 09, 2015, and other program offerings followed:

YEAR	PROGRAM	% ONLINE
2015	Medical Billing and Coding-Certificate	20%
2015	General Education Courses	50%
2016	Medical Clinical Assistant-Certificate	20% (Taught Out)
2017	AAS in Business Administration	20% (Taught Out)
2017	Bachelor in Business Administration	50%
2017	AAS in Electronics Engineering Technology	Up to 50%
2017	AAS in Information Systems and Security	Up to 50%
2017	Medical Billing and Coding-Certificate	Up to 50%
2019	AAS in Aerospace and Defense Technology	Up to 50%
2020	Master in Business Administration	100%
2020	Medical Billing and Coding-Certificate	100%
2020	AAS in Information Systems and Security	Up to 100%
2020	General Education Courses	Up to 100%
2020	Bachelor in Business Administration	100%
2021	Bachelor of Science in Technical Management	100%

In April 2017, WTC’s main campus was approved to begin offering distance education in a hybrid platform.

YEAR	PROGRAM	% ONLINE
2016	Medical Clinical Assistant-Certificate	20%
2017	AAS in Business Administration	20% (Taught Out)
2017	AOS in Automotive Technology	20%
2017	AOS in Automotive Technology w/Sub-Specialty in LDD	20% (Taught Out)
2017	AOS in Automotive Technology w/Sub-Specialty in PT	20% (Taught Out)
2017	Bachelor in Business Administration	50%
2017	AOS in Diesel Mechanics	20%
2019	AOS in Refrigeration and HVAC Technology	20%
2019	Diesel Advanced Technology Education (DATE)-Certificate	20%
2021	Advanced Welding Technology-Certificate	20%
2021	Commercial Driver Training-Certificate	20%

In January 2018, the main campus was approved to begin offering the Commercial Driver Training Program, our latest certificate program. In March 2019, the Bachelor of Science in Nursing was approved at the branch campus only. In April 2019, the Diesel Advanced Technology Education certificate program was approved at the main campus only. In May 2019, the Medical Clinical Assistant program became programmatically accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and discontinued at the branch campus. In November 2019, the Aerospace and Defense program was approved at the branch campus only. In May 2020, WTC was approved to offer a Master of Business Administration (MBA). It is the first approved program to be offered fully online. In June 2021, the Bachelor of Science in Technical Management program was approved at the branch campus only.

FACILITIES

WTC occupies two modern campuses designed to enhance learning and provide students a real-world entry-level experience prior to employment. Each campus houses different programs and allows accommodation to many people across the greater El Paso region. WTC offers wireless network services throughout each campus which allows faculty, staff, and guests of the College to utilize the wireless network.

The Plaza Circle location (main campus) is housed in a 150,000 square foot facility on 13 acres, to include a spacious indoor and outdoor student break area. The facility comfortably accommodates classrooms and shops for the following programs: Automotive Technology, Diesel Mechanics, Diesel Advanced Technology Education, Commercial Driver Training, Refrigeration/HVAC Technology, Advanced Welding, Medical Clinical Assistant, and the Bachelor in Business Administration. Our main campus features a spacious Learning Resource Center (LRC) with 15 computer stations and has a Pearson Testing Center. There is a restaurant and a MATCO Tool store as well. The campus has a total of 40 classrooms, to include 6 lab areas for the transportation, welding, HVAC, and medical programs. The classrooms can accommodate a maximum of 30 students.

The Diana location (branch campus) is housed in a 48,000 square foot building on five acres with an additional 2,000 square feet outside the student break area. This campus features program offerings in Bachelor in Business Administration (BBA), Bachelor of Science in Nursing (BSN), AAS Degrees in Information Systems and Security, Electronics Engineering Technology, and Physical Therapist Assistant. Certificate of Completion program is offered in Medical Billing and Coding. The campus has a total of 25 classrooms, 7 labs. This campus has a spacious library, with 15 computers for students to use, printing capabilities and a Pearson Testing Center.

WTC received approval for a Satellite Campus in February 2019 which is located 3.75 miles from the main campus and serves as a driving range for the Commercial Driver Training program (CDT) and the Commercial Driver’s License (CDL) for the Diesel Mechanics program. It has a break area and restroom facilities. The following is the location of the WTC Driving Range, a.k.a. the Satellite Campus:

WTC College – Satellite Location (SL460566)-11090 Gateway Blvd. East, El Paso, Texas 79927

EQUIPMENT USED FOR TRAINING

(A more detailed list of equipment used in every program is available online at www.westerntech.edu)

ADVANCED WELDING

Lincoln Electric Prism Exhaust System
Lincoln Electric V-275 Welding Machine
Miller Dynasty 200 Inverter Welding Machine
Hypertherm Plasma Cutter
Miller Bobcat 225 Engine Driven Welding Machine
Victor Track Torches

AEROSPACE AND DEFENSE TECHNOLOGY

Multimeters
Oscilloscopes
Electronic Circuit Trainers
Avionic Systems Testers
Time Domain Reflectometers
Altitude/Airspeed Testers
Wire Harness Trainers
Communication Trainers
Hydraulic Pressure Testers

AUTOMOTIVE TECHNOLOGY

ProCut – On the car Brake Lathe
Hunter – Hawkeye Elite Alignment System
Launch Fuel Injector Flow Tester
Mopar WiTech Diagnostic Scan system
Matco R134 AC Recovery and Recharge Machine
Mustang AWD-500 Dynamometer
MegaTech Electrical & Hybrid Trainers
Mopar Training Vehicles
Hunter Road Force Balancing System
Programmable Tuning Engines

BACHELOR IN BUSINESS ADMINISTRATION (Hybrid)

LENOVO E590
LCD

BACHELOR OF SCIENCE IN NURSING

Hospital Beds
Patient Simulation Mannequins
Blood pressure monitors
Incubators
Autoclaves
Microscope

COMMERCIAL DRIVER TRAINING

2011 International Prostar Semi Tractors

2014 International Prostar Semi Tractors
53' Tractor Trailers
Drum Brake System Training aid
Disc Brake System Training Aid
Truck and Trailer Air Brake System Trainer

DIESEL TECHNOLOGY & DIESEL ADVANCED TECHNOLOGY EDUCATION

Volvo Truck Trainers
Freightliner Truck Trainers
Hydraulic Fluid Power Simulators
MegTech Electrical Trainer
Volvo Diagnostic Scan System
Daimler Diagnostic Scan System
Hunter HD Alignment System
Hunter HD Wheel Balancer
Electrical Chassis Trainer
AC System Simulator
Matco R134 AC Recovery and Recharge Machine

ELECTRONIC ENGINEERING TECHNOLOGY

Oscilloscopes
Multimeters
Electronic Circuit Trainers
Programable Logic Controllers
Robotic Arms
Pneumatic Trainers

INFORMATION SYSTEMS AND SECURITY

Computer desktop parts (Motherboard, CPU, memory sticks, video card, Hard drive SSD, power supply)
Cisco Packet Tracer 7.3
Cisco Router 4221, Cisco Switch 2960, and Cisco Wireless Router
Microsoft Server 2012
Linux Server (Ubuntu)
Palo Alto Firewall

PHYSICAL THERAPIST ASSISTANT

Suspension gait system
Open gym area with squat rack
Mechanical traction units
Multiple selection of electrical stimulation and ultrasound units

MEDICAL CLINICAL ASSISTANT

Hemodialysis machines
 Centrifuge machines
 EKG machines
 Cholesterol analyzer
 Microhematocrit machines

Ductless Mini-Split Systems
 Chilled Water System
 Commercial Package Units
 Electrical Training Stations
 Ice Machines (Cube, Nugget, Flaker)

REFRIGERATION/HVAC TECHNOLOGY

Residential Split Systems
 Light Commercial Package Units

Medical Billing and Coding, Bachelor of Science in Technical Management, Bachelor in Business Administration, and Master of Business Administration (Fully Online) programs do not require specific equipment for training.

ADMISSIONS

ADMISSION STANDARDS

The Student understands that he or she must satisfy any specific admission requirements for the programs that are set forth in the school’s catalog, and that he or she will not be fully admitted to Western Tech until all such admission requirements have been fulfilled to Western Tech’s satisfaction. The Student specifically affirms that he or she has earned a high school diploma, General Equivalency Diploma, or the equivalent, and authorizes Western Tech to verify the same. The Student acknowledges and agrees that he/she must comply with all admissions requirements and submit all proper documentation in the time allotted by Western Tech, and that a failure to meet any admission requirement or to submit any documentation may result in termination from the elected Program.

ADMISSION PROCEDURES

Individuals who seek admission to WTC are interviewed by an Admissions Representative. The pre-admission interview is designed to assist in assessing whether the student has a reasonable chance of successfully completing the appropriate program of study. The purpose of the interview is to:

1. Assist prospective students in identifying the appropriate area of study
2. Provide information concerning curriculum offerings
3. Discuss support services available at WTC
4. Tour the facility

Prospective students will tour the campus as part of the enrollment process and fill out the necessary forms and documents prescribed by the college and its regulating and accrediting bodies. Arrangements for an interview and tour of WTC may be made by contacting the Admissions Department.

Prospective students interested in fully online programs will be provided a virtual tour of the campus as part of the enrollment process and fill out the necessary forms and documents prescribed by the college, its regulating and accrediting bodies. Prospective students will be allowed to enroll up until the second day of the scheduled class start.

WTC has a High School Recruiting team that resides in in the following states, however they recruit and enroll for Western Technical College in El Paso, Texas solely.

1. Arizona – Phoenix, Yuma, and surrounding counties
2. California – Sacramento, Imperial, San Diego, and surrounding counties
3. Colorado – Denver, Metro, and surrounding counties
4. Montana – Butte and surrounding counties
5. Utah – Salt Lake City and surrounding counties
6. Texas – El Paso, Dallas, Fort Worth, San Antonio, Corpus Christi, and surrounding counties
7. Missouri – Springfield and surrounding counties
8. New Mexico – Albuquerque, Santa Fe, Las Cruces, and surrounding counties
9. Washington – Spokane and surrounding areas
10. Oklahoma – Oklahoma City and surrounding areas

STATEMENT OF NONDISCRIMINATION

No person shall be excluded from participation, denied any benefits, or subjected to any form of discrimination based on race, sex, religion, color, national origin, age, disability, military or veteran status, gender identity, or any other factor protected by law.

Western Tech does not discriminate in admission or access to programs based on any characteristic protected by law, including disability. Persons with disabilities are eligible for admission, as long as, they can carry out classroom, laboratory and internship assignments; pass written, oral and practical examinations; and meet all of the requirements of the program and generally accepted requirements of the profession, with or without reasonable accommodation. Western Tech will make reasonable accommodations for disabilities. Applicants who require accommodation are required to submit a written request for accommodation to the Campus President. Technical Standards and Essential Functions are listed in every program section in this catalog.

ADMISSION REQUIREMENTS

To be eligible for any program offered by WTC, a prospective student must present a high school diploma, high school transcript, or equivalency certificate (GED) recognized by the United States Department of Education. The admissions representative will make a copy to keep on file. In the event the applicant is unable to produce a copy, WTC will submit a transcript request on behalf of the applicant to his/her previous high school at no cost to the applicant, or the applicant can submit their own request. The applicant cannot enroll unless he/she produces a high school diploma, high school transcript, or GED.

Classes are taught in English; therefore, an adequate level of proficiency in reading, writing, and speaking the English Language is required. Prospective international students are required to take the Test of Adult Basic Education (TABE) and must achieve a minimum of a 6th grade level in all areas of reading, comprehension, and math. All applicants must be at least 18 years of age or older. However, applicants who have already earned their high school diploma, GED, or high school equivalency may enroll if they have met their state’s Compulsory Age Requirements, or exemptions.

For Prospects Unable to Produce a High School Diploma or GED

In the event the prospective student experiences a problem acquiring their high school diploma or GED, WTC will make allowances provided that one of the following criteria is met:

1. The prospective student is required to produce a transcript from the post-secondary institution attended. The college or vocational training institution must be recognized by the U.S. Department of Education and must be an accredited institution. If the prospective student did not complete the program, he/she would be required to possess a minimum of (24) semester credit hours or equivalent of post-secondary training at a national or regionally accredited institution. The individual is required to submit transcripts with a minimum 2.0 cumulative grade point average. This does not apply to military Joint Services Transcripts (JST) from any military branch. Transcripts for high school equivalency are not required to be official.
2. The prospective student can produce an official military service DD214, and high school seniors can submit their most current partial transcript that indicates their expected graduation date.
3. For applicants that were home schooled, they may be eligible for enrollment, provided their transcript meets equivalency standards with state requirements. Given that homeschool requirements and regulations vary by state, WTC requires the applicant provide a homeschool transcript (course dates, titles, a course grade or performance assessment for each course, period of enrollment with graduation date or expected graduation date); and documentation indicating that the schooling follow state regulations.

FULLY ONLINE AND HYBRID DELIVERY

Hybrid and fully online courses are web-based and delivered over the Internet using WTC’s Learning Management System (LMS); Canvas. The system provides both synchronous and asynchronous tools used for on-line delivery. The online content of the course is covered by using a variety of on-line educational activities such as discussion boards, chat sessions, conference sessions, case studies, lab simulations, and quizzes. In a hybrid program,

the face-to-face schedule is set on specific dates and times of the week, while the on-line portion of the class is organized for the student to have the flexibility to complete the on-line classroom activities based on their personal/work schedules.

Regardless of the mode of delivery, students entering fully on-line or hybrid delivery can expect the same level of support as on-ground students to include tutoring services, technical support, employment preparation, assistance with job leads, and access to the school's library.

Participation in on-line classes is vital to successful program completion. Students are provided with a computer that meets the requirements of the hybrid and fully online programs. Students must have Internet access from somewhere outside the school to fulfill course requirements and succeed in their classes. In addition, students must have a minimum level of comfort with technology, as they may find themselves needing to access course work online for as much as half of the time the class is in session.

For that reason, all prospective students considering enrollment in any of the hybrid and fully online programs are required to take a "Suitability for Distance Education" survey before they enroll in school. The survey is designed to identify the prospective student's level of proficiency in the use of technology. Students can expect support in the form of training tailored to their identified needs so that they can handle the demands of the Learning Management System that houses much of their work.

SPECIFIC PROGRAM ENTRANCE REQUIREMENTS

FOR APPLICANTS PURSUING THE AEROSPACE AND DEFENSE TECHNOLOGY PROGRAM

Hybrid Program - 80% of the training on-ground and 20% online

Applicants will be required to sign an attestation acknowledging that they do not have a criminal background. Having a criminal background may disqualify the applicant during the hiring process. In most cases, applicants must be able to pass a security clearance as a requirement for employment. Students accepted into the program must be physically, mentally, and emotionally capable of completing the program.

The admission process requires the following:

1. An application letter stating why the prospect wants to be accepted.
2. Two letters of recommendation from an appropriate source, i.e. previous employers, teachers, instructors/mentors, etc. Not acceptable are family members, friends, colleagues, etc.
3. Applicants must take the Wonderlic scholastic level exam (SLE). Applicants will be admitted into the ADT program based on a point system that accounts for the complete application, program entrance exam (SLE), and interview. A score of zero in *any category* will disqualify an applicant from consideration into the program.
4. A maximum of 20 students will be selected for admission into each cohort. Several alternates may be selected to fill available seats in case an applicant declines his/her acceptance into the program or did not complete the requested requirements on time.
5. Complete applications that meet the minimum requirements as above will be invited for a panel interview and a short on-site essay will be required.

To ensure optimal objectivity with the interview process, the following measures are taken: all interviewees will be interviewed utilizing the same set of predetermined questions with a panel.

FOR APPLICANTS PURSUING THE AUTOMOTIVE TECHNOLOGY AND DIESEL MECHANICS PROGRAMS

Hybrid Programs - 80% of the training on-ground and 20% online

Driver's License Requirement

In addition to the general admissions requirements and enrollment procedure, a prospective student must possess a valid driver's license before being allowed to start class.

FOR DIESEL MECHANICS CANDIDATES INTERESTED IN PURSUING THE CDL COURSE IN THE DIESEL MECHANICS PROGRAM

Hybrid Program - 80% of the training on-ground and 20% online

The Diesel Mechanics program provides an opportunity for students to obtain their Class B Commercial Driver's License. The Texas Department of Motor Vehicles has published requirements for candidates interested in obtaining a Commercial Driver's License (CDL), and they are as follows:

1. Candidates that are 18-20 years of age, can qualify for an Intrastate CDL.
2. Candidates 21 years of age or older may apply for an Interstate CDL.
3. Candidates must possess and present a current driver's license from any state. However, candidates must surrender their auto driver's license and accept a Texas CDL.
4. Candidates must undergo a background check. Serious felony charges will prevent the DMV from issuing a CDL. Please check with your admissions representative for the list of those items before choosing to take this course.
5. Candidates must possess and present a social security identification card.
6. Candidates must produce vehicle insurance and registration on his/her vehicle(s) that are all registered in his/her name.
7. The applicant must undergo a Department of Transportation (DOT) physical.
8. DOT Drug Test (must return clean).
9. The applicant must pass a vision exam.
10. The applicant must be fingerprinted and have a photo taken.

NOTE: Individuals that have gone through the training for the CDL but were unable to obtain a CDL for failure to note produce or pass any of the items listed above, will still be charged for the course in its entirety. Also, students pursuing a CDL in the Diesel Mechanics program are required to undergo a background check before internship.

FOR APPLICANTS PURSUING THE COMMERCIAL DRIVER TRAINING PROGRAM

Hybrid Program - 80% of the training on-ground and 20% online

Applicants that are unable to produce a High School Diploma or GED, the Wonderlic Basic Skills Test (WBSST) exam is administered, and they must score a minimum of a 7th grade level on Verbal Skills, Quantitative Skills and Skills Composite assessments in order to qualify to be enrolled in the program. If the applicant does not achieve the required score for the program, he/she may elect to re-take the Wonderlic exam. A student may take a second WBSST on the same day, however a substantially different test will be administered. Those wishing to make a third attempt may do so no less than one week after the second attempt. Those wishing to re-take the exam after the third attempt must wait six months before their fourth attempt. If a student does not pass a section, he/she must re-take only the section he/she did not pass.

Wonderlic Cut-Off Scores

- Verbal Skills: 211-229 is a 7th Grade Level
- Quantitative Skills: 227-240 is a 7th Grade Level
- Skills Composite: 211-229 is a 7th Grade Level

Prospective students who are unable to meet the requirements above will be referred to the GED coordinator.

The Texas Department of Motor Vehicles has published requirements for Applicants interested in obtaining a Commercial Driver's License (CDL):

1. Applicants must be a minimum of 18 years of age.
2. Applicants must be a minimum of 21 years of age for Interstate Licensing for Texas and New Mexico
3. Applicants must possess a valid driver's license from the USA for at least six (6) months prior to their admission into the program.
4. Applicants must meet the requirements of the Motor Carrier Federal Regulations, Part 391.11(b)(2) which states, drivers "...must read and speak the English language sufficiently to converse with the general

- public, to understand traffic signs and signals in English.”
5. Applicants “must provide to the State proof of citizenship or lawful permanent residency” per 49 CFR 383.71.
 - a. Social security card, or proof of the number.
 - b. Another document such as a birth certificate or green card
 6. Training is provided with trucks equipped with a ten-speed manual drive transmission.
 7. Applicants must meet the requirements for licensure as a Commercial Driver established by the Texas Department of Transportation Federal Motor Carrier Safety Regulations (FMCSR) and TX DOT.
 8. Applicants for a Texas CDL must be a Texas resident for at least 6 months and have a vehicle Registration.
 9. Applicants must be a minimum of 21 years of age for Interstate Licensing. (Note: New Mexico Residents must be 21 years of age to obtain a CDL from New Mexico).
 10. The applicant cannot possess more than one (1) license, cannot have their driving privilege suspended in any state, nor any unpaid traffic tickets in any state.
 11. Applicants testing in Texas from out of state, must surrender their auto driver’s license and accept a Texas CDL.
 12. Applicants must produce vehicle insurance and registration on his/her vehicle(s) that are all registered in his/her name to the DMV.

NOTE: Program costs PRIOR to enrollment into CDT program are to be paid by the applicant (subject to change).

The following is a list of charges for the CDT program that must be paid by the applicant before being allowed to enroll into the CDT program. Proof of said requirements needs to be provided to the WTC Admissions Representative prior to enrollment:

DOT Physical	\$45.00
DOT Criminal Background/Urinalysis and drug screen	\$45.00
Driving Record (MVR)	\$12.00
CDL Permit and License Fee	\$86.00
TOTAL	\$188.00

13. Background, Driving and Felony Records
14. Applicants must undergo a background check, to include the driving record. Serious felony charges will prevent the DMV from issuing a CDL. Please check with your admissions representative for the list of those items before choosing to take this program.
15. Applicants must possess a clear driving record and background check with the following:
 - a. No DWI or DUI in the past three (3) years
 - b. No careless or reckless driving in the past three (3) years
 - c. No more than three (3) moving violations in the last two (2) years
 - d. No drug or alcohol related misdemeanors during the previous three (3) years
 - e. No felony convictions in the last five (5) years
 - f. No drug or alcohol related felonies within the past ten (10) years
 - g. No felony parole or probation within the past two (2) years
 - h. No felony charges pending. Students may reapply after their case has been adjudicated
16. Applicants must undergo and pass a Department of Transportation (DOT) physical, to include vision testing and Drug Testing. A “positive” drug test, if deemed valid after review by a designated medical officer, will result in the student being ineligible for training. Applicants are required to provide the WTC admissions representative with the results.
17. Applicants must be fingerprinted and have a photo taken
18. Applicants must release permission to the school to obtain a verifiable Motor Vehicle Report (MVR). For Non-Residents, or in cases where the school cannot accept MVR’s, the applicant must obtain one (1) pre-hire prior to enrollment.

NOTE: Individuals that have gone through the training for the CDL but were unable to obtain a CDL for failure to produce or pass any of the items listed above, will still be charged for the program in its entirety, or if they fail their driver's test. Graduates from this program may transfer their credential towards the Diesel Mechanics AOS Degree program for the full 96-hour course exemption.

**FOR APPLICANTS PURSUING DIESEL ADVANCED TECHNOLOGY EDUCATION (DATE)
VOLVO/MACK Truck-DATE program is Corporate training-based program
Hybrid Program - 80% of the training on-ground and 20% online**

New students enrolling into the Diesel Technology Degree program.

To be eligible to participate in the Volvo/Mack Truck DATE courses the student must meet the following criteria.

1. Have and maintain a 3.0 or higher cumulative GPA throughout the Diesel Degree Program.
2. Have and maintain a 97% or higher attendance rate throughout the Diesel Degree Program.
3. Submit a written application to attend the Volvo/ Mack Truck DATE courses during ninth basic core course.
4. Pass the application interview during the tenth basic core course and be accepted.
5. For returning WTC Diesel Program Alumni of the WTC Diesel Mechanics Program to be eligible to attend the Standalone Volvo/Mack Truck DATE program must meet the following criteria:
 - o Be a graduate of the WTC Diesel Mechanics Program within the last five years.
 - o Be in good financial standing with WTC.
 - o Be in good standing with Federal Student Loans (if applicable).
 - o Submit a written application to attend the Volvo/Mack Truck DATE program.
 - o Pass the application interview and be accepted into the program.

NOTE: Students that fail to maintain the minimum 3.0 GPA and 97% attendance requirements after being accepted into the Volvo/Mack Truck DATE Program are subject to being removed from the Volvo/Mack Truck DATE program.

Driver's License Requirement

To be accepted into the DATE program, in addition to the general admissions requirements and enrollment procedure, a prospective student must possess a valid driver's license before being allowed to start class.

CDL Course in The Diesel Advanced Technology Education Program

The Texas Department of Motor Vehicles has published requirements for candidates interested in obtaining a Commercial Driver's License (CDL).

1. Candidates that are 18-20 years of age, can qualify for an Intrastate CDL.
2. Candidates 21 years of age or older may apply for an Interstate CDL.
3. Candidates must possess and present a current driver's license from any state. However, candidates must surrender their auto driver's license and accept a Texas CDL.
4. Candidates must undergo a background check. Serious felony charges will prevent the DMV from issuing a CDL. Please check with your admissions representative for the list of those items before choosing to take this course.
5. Candidates must possess and present a social security identification card.
6. Candidates must produce vehicle insurance and registration on his/her vehicle(s) that are all registered in his/her name.
7. The applicant must undergo a Department of Transportation (DOT) physical.
8. DOT Drug Test (must return negative).
9. The applicant must pass a vision exam.
10. The applicant must be fingerprinted and have a photo taken.

NOTE: Individuals that have gone through the training for the CDL but were unable to obtain a CDL for failure to not produce or pass any of the items listed above, will still be charged for the CDL course in its entirety. Also, students pursuing a CDL in the Diesel Advanced Technology Education program are required to undergo a background check before internship.

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING REFRIGERATION AND HVAC TECHNOLOGY PROGRAM

Hybrid Program - 80% of the training on-ground and 20% online

Driver's License Requirement

In addition to the general admissions requirements and enrollment procedure, a prospective student must possess a valid driver's license before being allowed to start class.

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING MEDICAL BILLING & CODING PROGRAM

Fully Online Program -100% of the training online

Students who enroll in the Medical Billing and Coding program will receive training through a 100% online delivery system.

Typing Test

Applicants entering the school's Medical Billing & Coding program must exhibit a typing proficiency of 25 words per minute and 98% accuracy.

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING MEDICAL CLINICAL ASSISTANT PROGRAM

Hybrid Program - 80% of the training on-ground and 20% online

Typing Test

Applicants requesting entry into the Medical/Clinical Assistant program must exhibit a typing proficiency of 35 words per minute (WPM) and 98% accuracy. Applicants, who achieve less than 35 WPM and 98% accuracy, but not less than 20 WPM and 95% accuracy, are allowed entrance into the MCA program provided they are able to elevate their typing speed to 35 WPM and 98% accuracy before they enter internship. Applicants must adhere to the typing remediation requirements of the program.

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING THE PHYSICAL THERAPIST ASSISTANT

Hybrid Program - General Education Courses up to 100% online

Admission to the Physical Therapist Assistant program begins with meeting with a WTC admissions representative. At that time, the prospective student will be informed about the expectations and qualifications necessary for admission into the program, including the need for immunizations, volunteer hours, background check, physical examination by a licensed health practitioner (M.D., D.O., P.A. or A.R.N.P.), CPR certification and admissions panel interview. This information may also be found on our website. Students accepted into the program must be physically, mentally, and emotionally capable of completing this course.

The WTC PTA applicant must have a minimum of a high school diploma or equivalency certificate (GED) and be at least 18 years of age. The PTA admission process will be completed as follows:

1. A minimum of 50 volunteer/observation hours, meeting the following criteria: Total hours must include a minimum of two different settings and may include: acute care, outpatient clinic, rehabilitation facility, educational therapy setting, home health therapy and/or long-term care facility.
2. Two letters of recommendation from an appropriate source, i.e. previous employers, teachers, instructors/mentors, etc. Not acceptable are family members, friends, colleagues, etc. A minimum of one letter of recommendation from a clinical practitioner is required.
3. Official transcript (must be submitted **DIRECTLY** from the post-secondary institution on to WTC to the Program Director (see the actual application for details)) that demonstrates a minimum of 2.75 GPA in secondary or post-secondary education (or minimum score of 500 for those applying with a GED).
4. Applicants are to submit the completed application package by the deadline date. Incomplete and/or late

applications (post-marked or delivered in-person) after the deadline date must reapply for the next application cycle.

5. Applications are screened and complete applications that meet the minimum requirements as above will be invited for a panel interview and a short on-site essay will be required. A letter of receipt will inform the applicant of any missing documents and/or failure to meet any criteria and of the deadline date for completing the application.
6. The PTA Selection Committee will summarize the final applications and choose the students for the incoming class. The accepted students will be notified via mail and given a deadline to accept the position and will be required to have all necessary immunizations, physical examination by a physician, healthcare provider, CPR certification and completion of a criminal background check (necessary as the prospective students are required to have an acceptable background check for future gainful employment and requirements by many clinical affiliation sites) at the applicant's expense.
7. Alternate student and denial notifications will be sent by mail. An up-to-date shot record, (to include TB test and Hepatitis vaccine); at least one of the series initiated for the Hepatitis B series vaccine required prior to admission, and the completed series prior to the first clinical rotation.

NOTE: All prerequisites listed must be completed prior the start of the class. Even if a student is enrolled, the individual cannot begin participating in class until all prerequisites are completed.

Wonderlic Scholastic Exam SLE

The Wonderlic Scholastic Exam is administered to applicants to the Physical Therapist Assistant Program. If the applicant does not achieve the required score for the program, he/she may elect to re-take the Wonderlic exam. Students who take the Wonderlic Scholastic Level Exam (SLE) may take the test and a re-test on the same day. Those wishing to make a third attempt must do so within one to two weeks after the second try. Those wishing to re-take the exam after the third attempt must wait six months before their fourth attempt. The applicant will also complete a student survey as part of the Wonderlic exam. The survey results are forwarded to Program Director for information only.

WTC Success Initiative Program (WTSI)

Students entering the Physical Therapist Assistant Program at WTC are required to take a college-readiness assessment (WTSI Assessment). This assessment is designed to measure a student's skills in relation to a standard of competence in math, reading and writing, and is offered during regular business hours.

All new and transfer students who have taken an assessment based on Texas Success Initiative (TSI) at another institution and have met the standard requirement from their previous post-secondary institution are exempt from the WTSI. Those students that do not qualify for an exemption must take the WTSI Assessment. Any non-exempt student enrolling or transferring into WTC is required to meet the standards of the WTSI in the areas of reading, writing, and mathematics by the completion of the first three (3) courses of the PTA program. Students not meeting the minimum standard requirements in reading, writing, and/or mathematics must complete developmental education to meet the requirements of the WTSI Program.

In addition, students will receive strengthening in any areas of deficiency, to complete the necessary requirements for the WTSI. Any fees associated with the WTSI process are included with the published tuition or fees at WTC.

NOTE: If a student does not successfully complete all aspects of the WTSI program initiative, the student cannot be awarded a degree, even if the student successfully completes all coursework in his/her program of study.

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING THE BACHELOR OF SCIENCE IN NURSING PROGRAM IS AS FOLLOWS:

Program is offered fully on-ground

1. The applicant must be at least 18 years of age at the time of start of the program.
2. The applicant must have a clean FBI criminal background check to be accepted into the nursing program.
3. Official high school transcripts must be received directly from the high school, with a 2.75 CGPA or higher, and sent to the Admission's Department to process the application. Prospective students may present a copy

- of their high school transcript to the admissions representative for initial evaluation, but the application will not be processed until an official transcript is received.
4. A GED will be accepted in lieu of a high school transcript.
 5. "Completion of 12 semester credit hours or more from an accredited post-secondary college with 3.0 GPA will be accepted in lieu of high school transcript."
 6. Applicants must achieve a minimum score of 60% in Reading, 60% in Math, 60% in English and a minimum of 50% in Science of the Test of Essential Academic Skills (TEAS) exam. Applicants may register to take the TEAS exam at www.atitesting.com.
 7. The applicant must be able to satisfy, with or without reasonable accommodation, the physical, mental, and sensory requirements listed in the student health form.
 8. A complete health clearance from a healthcare provider.
 9. Drug screen test with negative result.
 10. Applicants must go through a panel interview.

The ATI TEAS test is comprised of 170 questions set up in a multiple-choice format with four-option answers. Questions are designed to test the basic academic skills the tester will need to perform in class in the areas of: Reading, Math, Science, English, and Language usage. The total score is an adjusted percent correct score, which ranges from 0.0% to 100%. It is an equated score generated by the information from the entire set of 150 scored questions. The Dean of Nursing ranks applicants based on qualifying (TEAS) scores and makes the selection decision for admission. Admission will be denied to an applicant who fails to meet all the admission requirements. The campus documents the basis for denial. A letter of denial will be sent to the candidate. WTC will not admit any student into the nursing program that does not have a clear Criminal Background Check as described by the Texas Board of Nursing. The applicant must complete the eligibility process prior to admission.

Upon successful completion of all admission requirements, the school will promptly notify the student whether he or she is admitted into the nursing program. If the number of qualified applicants for admission into the BSN program exceeds the space available in the program, applicants will be ranked based on the composite score each applicant received on the TEAS Exam. Students accepted into the nursing program must meet the requirements established by the nursing program's admission policy. Applicants should comply with all required eligibility information and policies of TBON Rule 215.8 to be accepted into the nursing program.

All applicants must successfully complete the Test of Essential Academic Skills (TEAS) exam to be considered for admission.

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING THE MASTER OF BUSINESS ADMINISTRATION (MBA) DEGREE IS AS FOLLOWS:

100% Online

To be eligible for enrollment into the Master of Business Administration program, a prospective student must have earned a Baccalaureate degree recognized by the United States Department of Education. An official transcript must be received directly from the college or university and sent to the Admission's Department in order to be considered. Students will also be required to write a letter of interest which will be reviewed by a designated committee. This letter will be used to evaluate the students' level of interest in the business program, learn about the student's goals after earning their Master degree and to ensure their success. The letter will also identify any problems that may affect the student from completing the program. Appropriate resources may be recommended, and any areas of concern will be addressed. In addition, the student enrolling into the MBA program will be required to undergo a virtual or face-to-face interview with a school representative(s) for introductions and to ensure expectations for the program are clear.

IMMUNIZATION REQUIREMENT FOR BSN, PTA, AND MCA

Immunization requirements are based on the Centers for Disease Control and Prevention (CDC) immunization recommendations for health-care workers. Student and faculty, exceptions to the immunization policy will be determined by the student/faculty's primary health care provider documentation and in consultation with the clinical agency.

The following is a list of necessary immunizations for all nursing students attending the nursing program. Proof of immunization or positive titers must be documented in the student record and may be reflected in a shot record, physical examination report, lab report, or a letter from a health care provider. The record statement should include shot records, physical examination report, and immunization lab report. All immunizations will be completed prior to the start of upper division nursing courses. WTC complies with all state health care provider laws and regulations.

1. Tetanus (Td or DTP): One immunization within the past 10 years.
2. Measles, Mumps, Rubella (MMR): Two inoculations from childhood should be shown on the records. If only one is shown, then a recent inoculation as an adult must also be shown. If none from childhood can be shown, then one as an adult is acceptable. Proof of immunity may also be shown by the positive titer result.
3. Varicella Titer (also known as chickenpox): Two inoculations given four weeks apart or provide proof of immunity by the positive titer result.
4. Hepatitis B (Hep. B): A series of 3 injections. Injection #1 is given, #2 is given 30 to 60 days after injection #1. Injection #3 is given 4 to 6 months after #2. If the person waits too long between any of the injections, they may have to begin the entire series over again. Proof of immunity may also be shown with positive titer results.
5. Tuberculosis Skin Test or Chest X-Ray (TB, PPD): Skin test results or chest x-ray result within 30 days of the class start. If the student tested positive to the skin test or is allergic, they must show the results of a negative chest x-ray every two years.
6. Tdap, TB test (QuantiFERON TB Gold in-Tube), and seasonal flu shots.

Should the student be allergic to any of the above immunizations, they must provide a letter from a physician stating this. Women who are pregnant or with certain health conditions should not be immunized, therefore it is imperative that students provide a letter to the school from their attending physician with this information.

Additional immunizations or health screening may be required to meet clinical agency requirements. Students are responsible for keeping their original immunization record and providing the admission's department with a copy for their student record.

MCA Additional Requirement: Pregnant females may be required to provide a physician note stating they may receive immunizations and TB testing.

NOTE: MCA requires all immunization to be completed prior to starting the program.

NOTE: (Colorado Students Only) -

1. Students should check with appropriate Colorado regulatory agencies to confirm program/coursework will satisfy initial or renewal licensing or certification of that agency.
2. Apprenticeship councils do not accept training from trade schools for advanced placement if program is in the apprenticeship area, if applicable

INTERNATIONAL STUDENTS

WTC is dedicated to serving the needs of the international student from the admission application process through transfer or graduation. The Department of Homeland Security (DHS) regulations can be difficult to understand, but we are here to help the international student stay in compliance with DHS requirements while attending WTC. For the convenience of students, WTC has designated international student advisers at each campus.

How to Obtain A SEVIS I-20 Form

International students wishing to live in the United States while attending college must be admitted as full-time international students and maintain a full-time course load to stay in compliance with F-1/M-1 Visa requirements. Applicants seeking to enroll in valid student non-immigrant status must submit each of the following items:

1. A completed application for admissions.
2. A completed and signed enrollment agreement.
3. Original or official copies of educational transcripts (secondary school and, if applicable, university-level academic records) and diplomas. These educational transcripts and diplomas must be prepared in English or

include a complete and official English translation. WTC will perform this function on behalf of the student who will assume the cost for the translation. The translation is generally completed within five to seven school days.

4. Transcripts from Puerto Rico are accepted.
5. Official evaluation of non-American educational credentials; the official transcript is translated by an independent 3rd party recognized by the U.S. Department of Education for equivalency status in the United States.
6. Proof of English language proficiency (see below for proficiency policy).
7. A completed and signed Sponsor's Statement of Financial Support (This statement is not required if the student is self-sponsored.).
8. Official financial statements (typically provided by a bank) must verify sufficient funds to cover the cost of the educational program as well as living expenses.
9. A photocopy of the student's passport to provide proof of birth date and citizenship (Students outside the United States who have not yet acquired a passport will need to submit a copy of their birth certificate.).
10. Non-immigrant applicants residing in the United States at the time of application will be required to provide a photocopy of the visa page contained within the student's passport as well as a photocopy of the student's I/94 arrival departure record (both sides).
11. For all non-immigrant applicants residing in the United States at the time of application in F, M, or J nonimmigrant classification: written confirmation of nonimmigrant status at previous school attended before transferring to WTC.
12. Proof of proficiency in the English language is required for enrollment into academic programs. The following may be used as proof of proficiency:
 - Official transcripts from an accredited United States college or university showing completion of 12 semester credit hours with a cumulative GPA of at least 2.0 on a 4.0 scale.
 - Complete test of Adult Basic Education (TABE) and upon approval from the program director (minimum 10th grade reading level).

Issuance of the I-20 Form General Information

The I-20 form is issued in compliance with The Department of Homeland Security rules, and the General

Issuance Guidelines:

1. I-20 will be issued no earlier than 60 calendar days prior to first day of the program start for which the prospective student applied.
2. I-20 will generally be issued no later than 30 days prior to the first day of the program start for which the prospective student applied.

SEVIS I-20/M-1 VISA REQUIREMENTS

After receiving the SEVIS, I-20 form, and F-1/M-1 Visa, you must comply with the following requirements:

1. You must report to WTC's Student Financial Services Office within 10 days of entering the United States for the first time on your F-1/M-1 Visa.
2. You must report changes to your address and phone number to the Student Financial Services Office within (10) days. You must report to the International Students Office any changes in your schedule that causes you to be out of status, e.g., withdrawing from a class causing less than full-time attendance.
3. To extend your I-20 Form, you must report to the Student Financial Services Office for an extension, four weeks prior to the expiration date. If the I-20 is not extended or renewed prior to the expiration date, it will be terminated, and not be allowed to continue to study after the expiration date. must leave the United States and re-apply for a new I-20 and get a new F-1/M-1 Visa.

Contact the Student Financial Services Office immediately if you plan to transfer to another college or university. Another school will not be able to issue an I-20 to you unless WTC first releases your SEVIS record.

TRANSFER CREDITS

Transfer credit for previous education, training, military, or work experience must be evaluated by the Campus President and determined prior to being accepted and starting school.

1. For all degree programs, students that have taken general education coursework over the last ten (10) years, may be entitled to course exemption provided that the grade(s) earned are a “B” or higher.
2. Applied General Education course exemptions can only be considered for AOS degree programs.
3. Students that took technical courses over the last five (5) years, may be entitled to course exemption provided they earned a B or higher. For military, WTC will only consider granting credit for coursework, certifications earned, military or work experience which has occurred within the last five years.
4. Effective January 01, 2019, alumni who wish to take an entire program different from the one they graduated from may do so at up to 50% off tuition for ONE PROGRAM ONLY. Alumni that enroll in a subsequent program must be in good standing with WTC, to include zero conduct issues with his/her previous program and is also in good standing with his/her student loans and student accounts. Detailed information on the alumni discount is found in the Financial Aid Section of this catalog.
5. The acceptance of transfer credit for technical courses is primarily based on the competencies achieved by the applicant in previously completed coursework, training or employment and whether the competencies reasonably align with the WTC coursework and program into which the credit is to be transferred. In addition to transcripts, applicants may be required to provide course descriptions from the school where the coursework was performed, to enable WTC to perform a course-by- course evaluation.
6. Additionally, WTC may require applicants requesting transfer credit to take oral, written or performance exams or a combination thereof. Applicants must achieve a minimum score of 75% on the exam(s) for course exemption.
7. WTC does not accept credits listed as “transfer” credits on transcripts from other institutions. Actual transcripts are required for coursework from all institutions previously attended.
8. If the institution which the applicant previously attended is located within the United States, it must be accredited by an accrediting agency recognized by the United States Department of Education. Transcripts in Spanish from Puerto Rico or other United States territories are acceptable. If the institution is outside the United States, it must be accredited or similarly acknowledged by an agency deemed acceptable at WTC’s discretion. WTC may also require evaluation of foreign transcripts to determine high school equivalency of credentials by an independent third party at the applicant’s expense.
9. Students receiving credit are not eligible to receive Title IV student financial assistance or Veterans Administration (VA) funding for any coursework for which credit was granted. They may receive student financial assistance or VA funding for all other coursework at WTC contingent upon their eligibility.
10. A minimum of 50% of credits earned for graduation must be earned from WTC.

High School Credit

A high school graduate may be eligible for credit from previous training in high school up to one year of graduating. The student must receive an 80% or higher on the articulated course(s) for credit purposes, and they must be upper division courses. The credit may result as a course exemption or a reduction in the cost of the course. The final determination is made by the Program Director and Campus President.

Transfer Credit for Students Entering the BSN Program

Applicants who wish to have their previous education considered for credit must do so prior prior to starting the program. Students that have taken general education coursework over the last ten (10) years, may be entitled to course exemption credit provided that the grade(s) earned are a “B” or higher. General education courses that are nursing related (A & P, Microbiology, Nutrition, Pathophysiology) and that are considered for credit will need to be retaken even if financial credit is granted.

Students that have taken non-general education courses over the last five (5) years, may be entitled to course exemption credit provided they earned a B or higher. Although students receiving exemptions will receive financial credit, they will still be required to retake the courses.

Transfer Credit for Students Entering the Medical Clinical Assistant Program

Medical Clinical Assistant applicants who wish to have their previous education reviewed for transfer credits must provide transcripts to be evaluated by the Campus President. The Program Director has to ensure that credit meets transfer credit standards from CAAHEP.

Transfer Credit for Students Entering the Master of Business Administration program

Applicants may present an official transcript for evaluation into the MBA program but WTC will only accept a maximum of 12 credits from other colleges. The official transcript must be received directly from the college or university and sent to the Admission's Department in order to be considered.

Transfer Credit for Students Graduating from WTC to other Institutions of Higher Learning

WTC does not imply, promise or guarantee that credits completed at WTC will be accepted by or transferable to any other college, university, or institution, and it should not be assumed that any credits earned at WTC can be transferred to another institution. In the United States Higher Education system, each institution has its own policies governing the acceptance of credit from other institutions determined by the receiving institution, considering such factors as course content, grades, accreditation, and licensing. Students seeking to transfer credits earned at WTC to another institution should contact the other institution to which they seek admission to inquire as to that institution's policies on credit transfer.

STUDENT INSURANCE

WTC provides insurance coverage for injuries to students while attending class or school functions on WTC premises and during internship and group activities sponsored by the College. The Policy does not cover students once they leave the campus or after they graduate. WTC also provides Medical Malpractice insurance for those students in the following programs: Medical Clinical Assistant, Medical Billing & Coding, Physical Therapist Assistant, and Nursing.

STUDENT FINANCIAL SERVICES

WTC employs dedicated student financial services professionals to help each student to understand the financial aid programs, understand their rights and responsibilities, navigate the application processes, and manage all the paperwork associated with financial aid eligibility. Student Financial Services is open during normal business hours at both campuses, including evenings (Monday through Thursday). We encourage students to stop by any time they have questions or concerns about financial aid or any aspect of college financing.

WTC participates in Federal Title IV Student Aid programs authorized under Title IV of the Higher Education Act of 1965 (as amended) and is approved for the training of veterans and other eligible persons in accordance with the provisions of Section 3675, Title 38, U.S. code. Financial assistance is made available to qualified students according to the rules of each individual student aid program.

The WTC website contains detailed information about the types and amounts of student aid available, application procedures, eligibility rules, and the rights and responsibilities of students receiving federal student aid at www.westerntech.edu. WTC complies with all applicable state, federal and equal credit opportunity laws; however, WTC does not guarantee financial assistance to any student.

COMMON TERMS USED IN FINANCIAL AID

Grant or Scholarship is money that is used to help a student pay for school-related expenses. These items are awards that do not need to be re-paid.

Work-Study award must be earned through work at an hourly wage.

Loan must be re-paid at a future date through monthly payments. Any loan/financing offered at WTC will be fully explained and provided with written terms and conditions, including terms of repayment. Be sure to read and understand the terms and conditions prior to agreeing to any loan or financing agreement.

Transfer Credit is credit awarded to a student for a similar course(s) taken at another institution of higher education, with the same or parallel objectives. Transfer credit may also be given based on an individual’s work experience in the field of study. Also, updated industry certifications may be applied for transfer credit, depending on the program of study.

Course Exemption refers to course(s) of study that have been taken by the prospect at the same institution or different institution of higher education, with the same course objectives that allow the student to forgo having to take the same class, and not be charged for said course(s) in the new program.

Exceptions Course (s) Credits for Non-Term Programs

For students enrolled in a non-term program (certificate program) that have been granted credit based on transcripts evaluation; will be granted course (s) exemption credit through a monetary award.

An Award is an external monetary value that is provided through Military Appreciation Award and High School Articulation or scholarship and applied to tuition only.

Alumni Credit

Graduates that qualify for the alumni discount will also be held accountable to maintain the minimum at least a 2.0 grade point average per course to qualify for the alumni discount benefit. Students who do not meet this benchmark during the billing cycles (as described below) will not qualify for the alumni discount for that cycle.

Graduated Scale with a 50% Max

1st period-10% of tuition billed for period
2nd period-20% of tuition billed for period
3rd period-30% of tuition billed for period
4th period-40% of tuition billed for period
5th period-50% of tuition billed for period
6th period-50% of tuition billed for period

- Credit posted at the beginning of the next period
- Attendance & GPA Requirements
- No probation for the applicable period
- Business Office will send an inquiry to Administrative Specialist before posting credit.

NOTE: For the alumni to receive the full benefit of the tuition discount, it is imperative that the alumni entering the new program, maintain minimum academic and attendance requirements.

FEDERAL STUDENT AID

The following are brief descriptions of the aid programs in which WTC participates. More detailed information is available on the College’s website at www.westerntech.edu.

Federal Pell Grant

Federal Pell is a grant that does not need to be repaid. Eligible students who have not received a bachelor’s degree may receive this grant based upon their Expected Family Contribution (EFC) as determined through the FAFSA application process. More detailed can be found in the WTC Financial Services Consumer Guide.

Federal Supplemental Education Opportunity Grant (SEOG)

Pell-eligible students (see above) may also be eligible for an additional grant under this program. SEOG awards are limited to those eligible students with the lowest EFC’s (generally zero EFC’s only).

Federal Work Study Program

This program enables students who demonstrate financial need to earn a portion of their education expenses. Students earn at least the current hourly minimum wage by working at the College, non-profit organizations, or other community employers.

Federal Stafford Loan Program

Eligible students at WTC can borrow a traditional “student loan” from the Federal Direct Student Loan Program. These loans are called Federal Stafford Loans, and the interest on these loans may be subsidized and/or unsubsidized.

For maximum loan amounts, explanations of the differences between the Subsidized and Unsubsidized Loan Programs, and other important information, please visit the College’s website at: www.westerntech.edu.

Federal PLUS Loan (Parents)

The parents of dependent students at WTC are generally able to borrow a Federal Parent PLUS Loan based upon creditworthiness. Parents can borrow up to the full cost of education minus any other aid received.

Institutional Financing

In the event the student is unable to completely pay for his/her education with Federal Student Aid funds, WTC offers students two options:

- **In-School Payment Plan**-The WTC Payment Plan allows students to make equal monthly payments across the school year for any remaining balance after other forms of financial assistance are considered.
- **Long-Term Financing**-WTC also offers institutional financing (through a third-party servicer) which allows for a maximum term of thirty-six months. Interest rates are determined by credit analysis.

Personal Financing

If a student and/or parent would like to obtain personal financing through their own lender, please consult with the Student Financial Services Office to discuss a personalized payment schedule.

SCHOLARSHIPS AND AWARDS

The primary purpose of this scholarship program is to encourage high school seniors to enter high-tech career training. The secondary purpose is to assist disadvantaged students facing financial hardships who, although academically capable, may not otherwise be able to fully afford specialized career training. The following are brief descriptions of the scholarships that WTC offers for qualified students:

High School Senior Scholarships

The WTC High School Senior Scholarship awards five (5) total scholarships from each of our (15) eligible programs to all school districts throughout the Southwest Region. The criteria to complete the High School Senior Scholarship application is as follows:

- Turn in (2) letters of recommendation from an appropriate source (teachers, employers, counselors). Turn in a minimum of a (300) word essay "Why you want a career in the field you are applying for" (list your activities in school, work experience, previous training and goals).
- Provide an official copy of your current high school transcripts, (after the first H.S. Senior semester).
- Schedule a Wonderlic Basic Skills Test (WBST) to be administered at WTC.

The awarded scholarships will be applied towards current tuition using the following formula:

1 st place will receive 25% off tuition
2 nd place will receive 20% off tuition
3 rd place will receive 15% off tuition
4 th place will receive 10% off tuition
5 th place will receive 5% off tuition

All seniors who will be graduating High School in the spring are eligible to apply for the High School Senior Scholarships. Students who wish to apply should see their high school career center or school counselor for a scholarship application or visit the Westerntech.edu website. The selection process is completed by a committee of local high school personnel. The application and review process will be completed in mid-April.

WTC High School Senior scholarships and awards are valid for one year after the date and are not a cash award. They are applied towards tuition fees only. Non-transferable and redeemable only at WTC. Scholarship and awards are only to be deducted from tuition upon successfully completing the career program of prospect student's choice.

Skills USA Scholarships

WTC offers scholarships to the winners of the Skills USA competition (El Paso regional area). The High School Senior participants who place 1st through 3rd in each category will receive a scholarship using the following formula:

1 st place will receive 20% off tuition
2 nd place will receive 15% off tuition
3 rd place will receive 10% off tuition

The High School Junior participants who place 1st through 3rd in each category will receive a scholarship using the following formula:

1 st place will receive 10% off tuition
2 nd place will receive 7.5% off tuition
3 rd place will receive 5% off tuition

WTC Skills USA Scholarships for HS Seniors and HS Juniors are valid for one year after the date and are not a cash award. They are applied towards tuition fees only. Non-transferable and redeemable only at WTC. Scholarships are only to be deducted from tuition upon successfully completing the career program of prospect student's choice.

Military Appreciation Award

Active duty and reserve service members, honorably discharged veterans or National Guard members, and their dependents qualify for 10% reduction to current tuition. Supporting documentation to be considered for the award is as follows:

1. Veteran -A copy of the prospective student DD214 along with a picture ID.
2. Military Dependent Spouse – A copy of military spouse DD214 and/or proof of active duty (active orders), picture ID, and marriage certificate.
3. Military Dependent Child – Childbirth certificate identifying either parent, picture ID (parent, child) along with DD214 and/or proof of active duty, reserve, and/or National Guard.

The 10% reduction does not apply to books, tools, or any other charges.

Career Colleges and Schools of Texas (CCST) Scholarships

WTC participates in the Career Colleges and Schools of Texas (CCST) scholarship program, which is available for high school seniors in both public and private high schools in Texas. The scholarship award is valued at \$1,000.00, and each school receives 10 scholarship certificates per calendar year. The scholarship can be redeemed at participating colleges and universities throughout the state. The selection process is done at each high school and only high school counselor(s) may award a scholarship. The career school and high school counselor are both notified when a scholarship is issued. Scholarship recipients must graduate high school in the same school year (September-June) as the issue date of the scholarship, and the deadline for awarding scholarships is August 31 of the year that the student graduates from high school. Prospects that submit a CCST scholarship that falls outside of the accepted dates will not be eligible for acceptance at WTC. Please see your Texas high school career center or school counselor for CCST scholarship information.

Academic Requirements for Scholarships and Awards

Each scholarship/award may have academic requirements for a student to remain eligible for continued payments. Recipients of each scholarship will be notified in writing of any such requirements. This will be administered by the College Education Liaison staff.

Limit on Awards

Prospective students who are enrolling cannot be granted more than 50% off tuition in total scholarship and course exemption awards.

Scholarships from Other Institutions

Prospective students who are enrolling will have the option to use institutional specific scholarship awards granted to high school students, made out to other colleges and universities, not to exceed the total amount of \$5,000.00 towards tuition. Scholarships and awards are valid for one year after the date and are not a cash award. They are applied towards tuition fees only. Scholarships are non-transferable and redeemable only at WTC.

ACADEMIC PROGRESS FOR FINANCIAL AID ELIGIBILITY

All WTC students must maintain satisfactory progress toward completion of their academic program. Students who fail to meet the academic progress standards of the College are subject to both academic penalties and the potential loss of eligibility for federal aid. The standards below apply exclusively to eligibility for federal student financial aid.

Definitions – Effective 2019

- **Degree Programs:** are defined as programs which lead to an Associate Degree or Baccalaureate Degree.
- **Certificate Programs:** Defined as non-term programs that do not result in a degree, but a Certificate of Completion.
- **Graduate degree:** is defined as a program that leads to a master’s degree.

Degree Programs are measured in traditional Semester Credit Hours, while Certificate Programs are measured in Clock-to-Credit Conversion Credit Hours.

Payment Periods

The measurement of Academic Progress for Financial Aid shall occur in increments which correspond to the “payment periods” for Federal Title IV Financial Aid. Academic Progress shall be measured at the end of each payment period. For Degree Programs, the payment period is the Semester. For Certificate programs, the payment period is defined as one-half (as measured in both weeks and credit hours (instructional hours)) of the student’s scheduled academic year or the remaining scheduled period of instruction until program completion (whichever is less). If the remaining period of instruction is less than one-half of the standard academic year, (less than twelve credit hours) it shall be considered a single payment period.

Academic Progress Standards for Financial Aid	Minimum Cumulative Grade Point Average	Cumulative Hours Completed/ Attempted
End of 1st payment period	1.50	67 percent
End of 2nd payment period	1.75	67 percent
End of 3rd or subsequent payment period	2.00	67 percent

Additional “Maximum Timeframe” Standard

Eligibility is also limited to students completing their programs within one and one-half times the normal program length. The maximum timeframe is reached when the student has attempted more than one and one-half times the number of clock or credit hours required to graduate from his/her program. The maximum timeframe standard evaluation for transfer students will consider all credits attempted at WTC or accepted for transfer or proficiency credit. Students who change programs may request that their maximum timeframe be re-calculated based solely on those hours that are applicable to the current program of study. A determination of ineligibility based upon the

maximum timeframe standard may be reversed based upon a mitigating circumstance. Please refer to the “Regaining Academic Eligibility” section (below).

Exempted Course(s) Credit:

Twelve credit hours constitute a full semester, and students exempt from course(s) will not be charged accordingly however, students enrolled in degree semester programs that are eligible for Title IV funds will receive financial aid appropriate to their enrollment status for the semester. For more information, please see your Student Financial Services Specialist.

GPA and Grading Policy

All issues of grading policy, Grade Point Average (GPA) calculation, attendance, etc. are calculated in accordance with the regular academic policies of WTC.

For Degree Programs, “Attempted Hours”

Defined as any credit hours for which the student was charged or received financial aid. “Completed Hours” means the number of “attempted” credit hours for which a student received a passing grade. For Certificate programs, “Attempted Hours” means the number of scheduled credit hours in the program as listed in the academic calendar to the measurement point. “Completed Hours” means the number of “attempted” credit hours a student attended.

Transfer Students

Accepted transfer credit shall be considered as completed coursework for purposes of this policy. However, since no grades are assigned to transfer courses, they will not impact the student’s GPA. Academic years and payment periods for transfer students shall be defined individually based upon the remaining period of instruction.

Return after a Leave of Absence

A student who returns after a leave of absence, withdrawal, or other extended absence of 180 calendar days or less, shall not have the period of absence considered in the calculation of academic progress. In all other aspects, the student’s progress will be evaluated in the same manner as if the absence had not occurred, except for any necessary changes to the start and end dates of planned payment periods. A student, who returns after a withdrawal, dismissal, or other absence of more than 180 days, shall be measured in a manner consistent with a transfer student (see above). Students who do not return on their scheduled return date from their LOA, will be dropped.

Financial Aid Warning Status

Students who fail to meet the standards defined above will be placed on Financial Aid Warning Status for their subsequent payment period. Students in Warning Status remain eligible for federal student aid. If a student has not returned to “good” academic standing (according to the chart on the preceding page) by the end of the Financial Aid Warning Status payment period, lose eligibility for federal student aid from that point forward. Such dismissal/loss of eligibility may be subject to appeal (see below).

Data Corrections

If a student’s academic record is corrected after the evaluation date, a student may submit a written request to the Student Financial Services Director for re-evaluation of the student’s financial aid eligibility.

Regaining Academic Eligibility for Financial Aid

Mitigating Circumstances Appeal: A determination of loss of eligibility for federal financial aid may be appealed based on mitigating circumstance(s). A mitigating circumstance is defined as an exceptional or unusual event(s) beyond the student’s direct control, which contributed to or caused the academic difficulty. Examples include: the death of a relative, an injury or illness of the student, or other special circumstances. Appeal letters should be addressed to the Financial Services Director and must include a complete description of the circumstances that led to the academic difficulty, how those circumstances have changed, and a plan for future academic success. Copies of supporting documentation should be included. All appeals are reviewed by a committee of academic and administrative staff whose determination is final. A mitigating circumstance appeal may also be used to override the Maximum Timeframe Standard.

1. A student for whom a mitigating circumstance appeal is approved will be placed in Financial Aid Probation Status for one payment period. If the student has not returned to good academic standing (according to the chart) by the end of a probationary payment period, lose eligibility for future financial aid.
2. **Regaining Eligibility Other Than Through Appeal:** Students who have lost federal financial aid eligibility may potentially regain academic eligibility by one or more of the following methods: 1) be accepted into a different academic program at WTC, if the re-evaluated student's record (based upon the courses applicable to the new program) will be in compliance with all academic standards; and/or make up the academic deficiencies at WTC without benefit of federal financial aid. In each of these circumstances, approval is at the discretion of the Campus President.

Return to Good Standing

Once a student has returned to good academic standing, any previous academic difficulty, warning, or probation shall have no future bearing on the student's status. Hence, such students will have benefit of all provisions of this policy, including a warning payment period.

CANCELLATION & REFUND-POLICY

CANCELLATION POLICY

If the Student wishes to cancel this contract, and thereby cancel his or her enrollment in the Program designated above, he or she should provide written notice, addressed to Administration. If delivered by mail, the Student should send the notice of cancellation via registered mail to the appropriate campus address listed above. If the Student cancels this enrollment contract within 72 hours after the enrollment contract is signed (until midnight of the third day excluding Saturdays, Sundays, and legal holidays), a full refund will be made. If the Student cancels this contract, or fails to begin his or her program, within 14 school days of the program start date, a full refund will be made, less the \$100 Registration Fee. The Student also will be eligible for a full refund of books and supplies for any such items returned to Western Tech in good condition. Any books and supplies that are distributed and are not returned to Western Tech will be billed to the student. Any balances that remain for non-returned items will be billed to the Student, and any balance owed needs to be paid within three months to avoid the account being sent to collections.

REFUND POLICY

Refunds will be calculated, as appropriate, if the Student withdraws or is withdrawn from Western Tech more than 14 school days following the program start date, and prior to the completion of the program. If the Student withdraws from Western Tech, he or she should submit a written withdraw request to the Administrative Specialist. Refunds will be calculated as set forth below.

1. Refund computations will be based on scheduled clock hours of class attendance through the last date of attendance. Leaves of absence, suspensions, and school holidays will not be counted as part of the scheduled class attendance.
2. The effective date of termination for refund purposes will be the earliest of the following:
 - a. The last day of attendance, if the Student is terminated by Western Tech;
 - b. The date of receipt of written notice from the Student; or
 - c. Ten school days following the last date of attendance.
3. If the Student account has a credit balance, it is the policy of Western Tech to refund the amount according to the completed Student Account Closeout form on file with the Financial Aid office. Refunds are only issued in the event of a credit balance.
4. If the Student enters a residence or synchronous distance education program and withdraws or is otherwise terminated, Western Tech will not refund the \$100 registration fee. The refund of the remaining tuition and fees will be the pro rata portion of tuition, fees, and other charges that the number of hours remaining in the portion of the course or program for which the Student has been charged after the effective date of termination bears to the total number of hours in the portion of the course or program for which the Student has been charged, except that the Student may not collect a refund if the Student has completed 75 percent or more of

the total number of hours in the portion of the Program for which the Student has been charged on the effective date of termination.

5. Refunds for books and supplies will be handled separately from refund of tuition and other academic fees. The Student will not be required to purchase books and supplies until these materials are required for the Program. Once these materials are purchased, no refund will be made.
6. If the Student withdraws for a reason unrelated to the Student's academic status after the 75 percent completion mark and requests a grade at the time of withdrawal, he or she shall be given a grade of "incomplete" and permitted to re-enroll in the course or program during the 12-month period following the date the Student withdrew without payment of additional tuition for that portion of the course or program.
7. A full refund of all tuition and fees is due and refundable in each of the following cases:
 - a. A prospective Student is not accepted by Western Tech;
 - b. If the course of instruction is discontinued by the school and this prevents the Student from completing the course; or
 - c. If the Student's enrollment was procured because of any misrepresentation in advertising, promotional materials of the school, or representations by the owner or representatives of Western Tech.
 - d. A full or partial refund may also be due in other circumstances of program deficiencies or violations of requirements for career schools and colleges.
8. If, during the program, Western Tech determines that the Student is unlikely to be successful in his or her Program, the school reserves the right to terminate the student's training. In any such instance, tuition will be refunded in accordance with the refund policy.

REFUND POLICY FOR STUDENTS CALLED TO ACTIVE MILITARY SERVICE

If the Student withdraws because he or she is called to active duty in a military service of the United States or the Texas National Guard, the Student may elect one of the following options:

- a. If tuition and fees are collected in advance of the withdrawal, a pro rata refund of any tuition, fees, or other charges paid by the Student for the program and a cancellation of any unpaid tuition, fees, or other charges owed by the Student for the portion of the program the Student does not complete following withdrawal;
 - b. A grade of incomplete with the designation "withdrawn-military" for the courses in the program, other than courses for which the Student has previously received a grade on the Student's transcript, and the right to reenroll in the program, or a substantially equivalent program if that program is no longer available, not later than the first anniversary of the date the Student is discharged from active military duty without payment of additional tuition, fees, or other charges for the program other than any previously unpaid balance of the original tuition, fees, and charges for books for the program; or
 - c. The assignment of an appropriate final grade or credit for the courses in the program, but only if the instructor or instructors of the program determine that the Student has:
 - i. satisfactorily completed at least 90 percent of the required coursework for the program; and
 - ii. demonstrated sufficient mastery of the program material to receive credit for completing the program.
2. The payment of refunds will be totally completed such that the refund instrument has been negotiated or credited into the proper account(s), within 60 days after the effective date of termination.
 3. In all cases, refunds issued under this section will meet or exceed the requirements of TEC, §§132.061 and 0611.

REFUND POLICY FOR COLORADO

Western Technical College is approved and regulated by the Colorado Department of Higher Education, Private Occupational School Board. Any questions regarding this Agreement may also be directed to the Colorado Department of Higher Education, Division of Private Occupational School Board

at 1600 Broadway, Suite 200, Denver, CO 80202 (303)862-3001. Complaints may be filed online at highered.colorado.govd/pos within two years of the student’s last day of attendance. Student is responsible to check with appropriate Colorado regulatory agencies to confirm program/course work will satisfy initial or renew all licensing or certification of that agency.

General Provisions

- A. The College’s full Cancellation and Refund Policy is contained in the College’s catalog.
- B. Non-Title IV refunds will be paid within 30 days from the effective date of withdrawal as defined below.
- C. The College will mail a written acknowledgment of Student’s cancellation or written withdrawal to Student unless a refund has been mailed to Student.
- D. Applicants not accepted by the Collee will receive a refund of all monies paid.
- E. Granting credit for previous training shall not impact the refund policy.

Cancellation Policy

- A. The Collee will refund all fees to applicants who request a refund within 7 calendar days of signing the Enrollment Agreement.
- B. An applicant who has not toured or visited the College campus prior to enrollment will have an additional 7 calendar days following the applicant’s tour to cancel his/her enrollment without penalty.
- C. If the College cancels a course or program during a time when the applicant could have reasonably completed it, the College will refund all fees.

Refund Policy for Colorado Residents called to active military duty the refund policy is contained in the College catalog

- A. The College is required to have a fair and equitable refund policy under which the College refunds unearned tuition, fees, room, and board (if applicable) and other charges to Student.
- B. Once the Title IV return calculation is performed and after any excess funds have been returned to the Title IV programs, the College will calculate the refund due to Student, if any follows:
 - 1. A full refund of all monies paid if a student is not accepted by the college.
 - 2. A full refund of tuition and fees paid if a student withdraws within 7 calendar days after signing the enrollment agreement or making an initial payment if the student has not attended orientation, toured the campus, or commenced training.
 - 3. A full refund, without penalty, if a student withdrew within 7 calendar days following his/her visit to the college and/or regularly scheduled orientation.
 - 4. A full refund of tuition and fees paid if the college discontinues a course or program of education during a period within which a student could have reasonably completed the same, except that this provision shall not apply if the college ceases operation.
 - 5. The policy for cancellation, settlement, and refund of tuition and fees provides for at least the following:

Student is entitled to upon withdrawal or termination	Refund*
Within first 10% of program (Same for Ground/Online courses)	90% less cancellation charge, exclusive of books, tools, and supplies
After 10% but within first 25% of program (Same for Ground/Online courses)	75% less cancellation charge, exclusive of books, tools, and supplies
After 25% but within first 50% of program (Same for Ground/Online courses)	50% less cancellation charge, exclusive of books, tools, and supplies
After 50% but within first 75% of program (Same for Ground/Online courses)	25% less cancellation charge, exclusive of books, tools, and supplies

After 75% (Same for Ground/Online courses. If paid in full, cancellation charge is not applicable.)	No refund
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(*) The above calculations are performed on an academic year (payment period) basis as determined by the date period in which a student withdrew. All charges are based on the contract price of the program.

6. A student may return his/her books and/or tools (not opened software or software subscriptions) to the college for a refund upon withdrawal. Only if a student’s books and/or tools are judged to be in excellent condition will he/she receive a refund (or credit, if applicable – depreciated value to the student’s account). This offer is for 7 calendar days from the effective date of withdrawal.

7. The effective date of termination (date of determination/cancellation/withdrawal) is defined as any one of the following:

- a. The date of receipt of a student’s notification
- b. The date the institution determines the student is no longer attending

8. All non-Title IV refunds will be paid within 30 days from the effective date of termination/withdrawals defined above.

New students have the right to cancel any time through the 7th calendar day of their first term of enrollment and will be entitled to a full refund of all tuition and fees paid and a reversal of all charges for tuition and fees other than any materials that are not returned. All cancellation requests must be in writing.

- 1. Payment of refunds will be made within 30-days of termination.
- 2. Postponement of a starting date, whether at the request of the school or the student, requires a written agreement signed by the student and the school. The agreement must set forth:
 - a. Whether the postponement is for the convenience of the school or the student, and
 - b. A deadline for the new start date, beyond which the start date will not be postponed.
 - c. If the course has not commenced, or the student fails to attend by the new start date set forth in the agreement, the student will be entitled to an appropriate refund of prepaid tuition and fees within 30 days of the deadline of the new start date set forth in the agreement, determined in accordance with the school’s refund policy and all applicable laws and rules concerning the Private Occupational Education Act of 1981.

RETURN OF TITLE IV FUNDS

Return to Title IV/ Refund Repayments Policy

This policy applies to recipients of Federal Title IV Financial Aid funds who cease enrollment for any reason prior to graduation. Students that are no longer attending may owe funds to the College to cover unpaid tuition, fees, and other charges. Also, the College will attempt to collect from the student any funds that the College was required to return to the financial aid programs under this policy.

The College will calculate how much federal aid may be retained or disbursed for a student who withdraws prior to the end of a payment period. The calculation is referred to as “Return of Title IV Funds” (R2T4). The calculation of Title IV funds earned by the student has no relationship to the student’s tuition and fees that may be owed to the College. All students subject to this policy will have their eligibility calculated according to the following definitions and procedures, as prescribed by regulation.

Withdrawal before 60%:

The College must perform a R2T4 to determine the amount of earned aid up through the 60% point in each payment period and use the Department of Education's proration formula to determine the amount of financial aid funds the student has earned at the time of withdrawal.

Withdrawal after 60%:

After the 60% point in the payment period or period of enrollment, a student has earned 100% of the Title IV funds he or she was scheduled to receive during the period. For a student who withdraws after the 60% point-in-time, there are no unearned funds. However, the College will still calculate the student's eligibility for a post-withdrawal disbursement.

Calculating R2T4

Title IV funds are earned in a prorated manner up to the 60% point in the payment period. The proration is based upon scheduled classroom/instructional hours (clock hours) for clock-hour programs, and calendar days for credit hour programs. The College will determine the earned and unearned Title IV aid as of the student's last date of attendance (LDA) and the College's academic calendar.

In accordance with federal regulations, when Title IV financial aid is involved, the calculated amount of the R2T4 funds is allocated in the following order: Unsubsidized Direct Loans, Subsidized Direct Loans, Direct PLUS loans followed by Federal Pell Grants and Federal Supplemental Educational Opportunity Grants (FSEOG). The calculation steps are outlined as follows:

1. Calculate the percentage of Title IV aid earned by the student. Days or clock hours scheduled through LDA/days or clock hours in the payment period.) = 15.3% (% of completed calendar days within the payment period) 118 (scheduled days). Calculate the dollar amount of Title IV aid earned by the student. Percentage as calculated in step one above Amount of aid which was disbursed to the student or could have been disbursed to the student.
2. If the earned amount is greater than the total Title IV aid disbursed for the payment period, a Post-Withdrawal Disbursement will be calculated; if the amount is less than the amount of Title IV aid disbursed, the difference will be returned to the federal student aid programs.

Return to Title IV Funds Timeframe

WTC College adheres to the maximum timeframes prescribed regulation to return unearned funds. The date of the determination of the student' withdrawal remains 14 days from the student's last day of attendance; with exception of students determined to be on an approved leave of absence. The institution will return any unearned funds with 45 days after the date the institution determined that the students withdrew.

Post-Withdrawal Disbursement

If a student earned more aid than was disbursed to him/her, the student may be eligible for a post-withdrawal disbursement. The College will notify the student in writing if he/she is eligible for a post-withdrawal disbursement of Title IV loan funds. A student or parent borrower must first confirm in writing whether he/she accepts/declines all or some of any loan funds offered as a post-withdrawal disbursement. A post-withdrawal disbursement of Federal Pell Grant funds does not require student acceptance or approval. The College will seek the student's authorization to use a post-withdrawal disbursement for all other educationally related charges in addition to tuition and fees.

Overpayments

Any amount of unearned grant funds that a student must return directly is called an overpayment. The maximum amount of a grant overpayment that you must repay is half of the Pell Grant funds you received or were scheduled to receive. Students in this circumstance must decide with the College and/or the U.S. Department of Education to return the unearned grant funds. Failure to do so will result in ineligibility for future federal financial aid.

ACTIVE MILITARY AND VETERAN AFFAIRS

WTC is designated by GI Jobs magazine and Best for Vets, as a Military Friendly School for seven (7) consecutive years. WTC will help you complete required forms and submit documentation for veterans' educational benefits under chapters 1606, 30, 31, 33, 35, MyCAA, and Tuition Assistance. WTC provides ongoing services to veterans

and their dependents in every step of the college experience and is responsible for creating and maintaining records used to certify a student's status for the VA.

Flexibility of programs and procedures particularly in admissions, advising, credit transfer, course articulations, recognition of nontraditional learning experiences, scheduling, course format and residency requirements are provided to enhance access of service members, veterans, and their family members to WTC's education programs.

For More Detailed Information, please refer to the WTC's Veterans Guide

<https://www.westerntech.edu/financial-assistance-for-military-veterans/>

For immediate information call:

- Main Campus- (915)532-3737 or 1(800)225-5984
- Branch Campus- (915)566-9621 or 1(800)225-5984

Evaluation of military training record must apply to the student's declared degree or certificate program for consideration of course exemption.

All new and returning students who intend to receive VA Educational Benefits while enrolled at WTC need to be aware of the following:

1. Be sure you are certified. Registration for WTC classes does not automatically certify you for VA benefits. To be certified, the student will need to come by the Veterans Affairs Office and complete the Certificate of Eligibility (COE).
2. Students are required to submit copies of all transcripts from each institution previously or currently attending, to the Veterans Affairs Office. Students are responsible for requesting transcripts and making sure they are received at the correct office. Transcripts are required by the VA even if you have never received benefits before; VA regulations stipulate that all prior training must be evaluated by the Campus President and program director to receive educational benefits. Any consideration for course exemption based on previous training and/or education, will need to be processed before the student begins school. This includes military Joint Services Transcripts (JST) from any military branch.
3. It is the students responsibility to promptly report and submit supporting documentation of any changes in your Degree Plan or Preliminary Program of Study, degree objective, course(s) substitution(s), enrollment (part of terms), or address to the Veterans Affairs Office.
4. If you receive a non-punitive grade, our office will notify the Veterans Affairs Office. VA educational benefits will not be paid if you withdraw from a course or for a course that will not be used in computing requirements for graduation. The VA may reduce or terminate your benefits if you cannot show mitigating circumstances.

“Mitigating circumstances”:

Unanticipated or unavoidable events which interfere with a student's pursuit of a course. A student may submit evidence to substantiate mitigating circumstances; however, the VA will determine eligibility for resumption of benefit payments.

“Non-punitive grades”:

- A “W” grade for withdrawing from a course.
- An “I” grade for an incomplete course, which is not made up during the time required by the school.
- You must maintain satisfactory attendance and progress toward completion of your educational objective. If you do not meet the school standards, our office will notify the Veterans Affairs Office.
- Please note VA regulations are subject to change without notice. For current information, check with the WTC Veterans Affairs Office or you may contact the Department of Veterans Affairs (VA), Muskogee, OK at 1-888-442-4551.

Course Retakes

Students that have failed a course will be required to repeat the course (or courses) and will be charged for the cost of the course(s). Students are reminded that retaking a course may affect the student's graduation date and depending on course schedules and availability, may require the student to change class schedules for the remainder

of their training. May also affect agency and/or Title IV funding. Please check with Financial Aid and Student Accounts.

Exempted Course(s) Credit:

Twelve credit hours constitute a full semester, and students exempt from course(s) will not be charged accordingly however, students enrolled in degree programs are that are eligible for Title IV benefits will receive financial aid appropriate to their enrollment status. Basic Allowing Housing (BAH) paid in accordance with student enrollment status. Please check with the WTC’s VA Certifying Official office for more details.

Veterans Information Sources:

Department of Veterans Affairs (VA) www.va.gov or www.gibill.va.gov
 Department of Veterans Affairs
 Muskogee Regional Processing Office (Education) PO Box 8888
 Muskogee, OK 74402-8888

Educational Benefits Inquiries: 1-888-442-4551 (1-888-GIBILL-1)
 Website: www.vba.va.gov/Muskogee.htm
 E-mail: muskcrpo@vba.va.gov

<p>AIR FORCE: Community College of the Air Force</p>	<p>ARMY, COAST GUARD, MARINE CORPS, AND NAVY: Joint Services Transcript (JST)</p>
<p>CCAF/DFRS 100SouthTurner Blvd Gunter Annex AL 36114-3011 http://www.au.af.mil/au/ccaf/</p>	<p>NETPDTC ATTN: JST Operations Center N615 6490 Saufley Field Road Pensacola, FL 32509 Email: jst@doded.mil https://jst.doded.mil/</p>

Military Transcript Request

VA regulations stipulate that for any student that has previously qualified for VA educational benefits, transcripts from all previously attended institutions must be requested and submitted by the student to the VA office for evaluation prior to being certified for any additional VA benefits.

Veteran Leave of Absence Policy

All LOAs requested by Veterans must be approved by the Program Director, and the VA Certifying Official for both campuses. All Chapter 31 students are required to receive authorization for a Leave of Absence from their designated Vocation Rehabilitation Counselor before they are granted a LOA. Any student requesting a Leave of Absence (LOA) will be notified that their veteran benefits may be suspended until they have returned which at that time; the veteran will be reinstated and recertified. Veterans are encouraged NOT to take a LOA in the middle of the course but rather at the end of the course. If a veteran request a LOA in the middle of the course, the veteran will be responsible to pay back the money received. Furthermore, upon recertification, it can take up to two (2) months for the Veterans Affairs office to process recertifications, which may result in delay of further payments.

Military Obligations, Attendance, and Make-up Work

Many students choose to serve while pursuing their education. Standing by its reputation as a military friendly school, it is the policy of WTC to accommodate a student’s continuing service. For members of the National Guard and Reserves, there may be times when students might miss a class or two due to a weekday drill or similar military training. If orders are not issued, the student must contact the Administrative Specialist and bring a signed letter (usually from the unit CO) that specifically outlines the date(s) on which the student was in a military status. The Administrative Specialist, upon verifying the letter, will send a clearance notification via email directly to the student. Notification will be sent to the instructor, either in person or through email.

It cannot be emphasized enough that students are responsible to keep their course instructor(s), program director, Administrative Specialist, and VA certifying official informed of all military absences in order to agree upon and document make-up work or a leave of absence.

Internship

VA students must complete their internship by the end of the module or their expected grad date, whichever comes first.

TIME CODES

The following time code is used on all courses in every program to illustrate the amount of time students will spend in class or lab per course and the subsequent number of credit hours awarded.

44/48/4.0- Theory hours per course / Lab hours per course / Semester Credit Hours

PROGRAM OFFERINGS

CERTIFICATE PROGRAMS

CERTIFICATE OF COMPLETION IN ADVANCED WELDING TECHNOLOGY

Available at 9624 Plaza Circle Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC

CAREER OPPORTUNITIES IN ADVANCED WELDING TECHNOLOGY

Employment of welders, cutters, solderers, and brazers is projected to grow 4 percent from 2016 to 2026. Employment growth reflects the need for welders in manufacturing because of the importance and versatility of welding as a manufacturing process. Employment growth reflects the need for welders in manufacturing because of the importance and versatility of welding as a manufacturing process. Welders work in a wide variety of industries, from car racing to manufacturing. The work that welders do and the equipment they use vary with the industry. There are more than 100 different processes that a welder can use. The type of weld normally is determined by the types of metals being joined and the conditions under which the welding is to take place.

(Source: D.O.L. Occupational Outlook Handbook, 2018-2019 Edition).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	54,410	438,900
Projected Employment 2016	64,155	378,200
Absolute Change 2016-2016	9,745	13,600
Percent Change 2016-2016	17.90%	3.0%
Average Hourly Wage 2016	\$22.18	\$20.43
Average Openings per year due to Replacement	Not available	Not available
Average Openings per year due to Growth	7,183	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

CERTIFICATE OF COMPLETION IN ADVANCED WELDING TECHNOLOGY

COURSES 1-10

1030 CLOCK HOURS

39.0 Semester Credit Hours

EDUCATIONAL OBJECTIVES

The objective of the Advanced Welding Technology program is to train the student as a qualified welder. The qualified welder is capable of interpreting welding blueprints, cutting and welding with oxyacetylene, and plate welding with Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW), Innershield (IS), and Flux Core Arc Welding (FCAW). In addition, students will learn skills for pipe lay-

out & fit-up, flange applications, rolling offset & pipe blueprint reading.

Those who complete the program successfully will be prepared to work at an entry-level position as structural or pipe welders in various welding environments such as construction companies, shipyards, factories, fabrication companies, welding shops and other enterprises.

CERTIFICATIONS

(6) STRUCTURAL CERTS. - 2G,3G,4G (POSITIONS), SMAW (STICK), 1/4” PLATE ‘OPEN V GROOVE’

PIPE CERTS. - 6G (45*POSITION), SMAW (STICK) - 4” SCH. 40 PIPE (45*POSITION)

COMBINATION: SMAW (STICK) / GTAW (TIG)- 4” SCH. 40 PIPE

NOTE: The Advanced Welding program requires that all “Structural” certification tests be passed as a prerequisite for the “Pipe” welding portion of the program. WTC Welding certifications will only be awarded upon completion of the program in its entirety.

GRADUATION REQUIREMENT:

The Advanced Welding program requires that all “Structural” certification tests be passed as a prerequisite for the “Pipe” welding portion of the program. WTC Welding certifications will only be awarded upon completion of the program in its entirety. Students will be required to demonstrate an entry- level degree of proficiency in each competency, outlined in each course throughout the programs. An inability to achieve the required level of competency will prevent the student from being able to graduate from WTC.

Students graduating from this program must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Ability to adhere to concise safety policies/procedures
2. Ability to stand for extended periods of time
3. Ability to flex, bend or twist with body, arms & legs
4. Ability to see detail at close range.
5. Ability to maintain prescribed attendance/performance levels that meet academic requirements.

NOTE: The sequential order of classes may differ from than what is listed in the program outline below. Courses with prerequisites are denoted in the course outline with an asterisk (*).

CERTIFICATE OF COMPLETION IN ADVANCED WELDING TECHNOLOGY

#	Course Number	Course Title	Hrs.	Theory/ Lab	% On- Ground/ Online	Semester Credit Hours
1	OR 101	Orientation	60	40/20	80/20	3.0
*2	PR 102	Blueprint Reading Fundamentals	120	24/96	80/20	4.5
*3	PR 103	Blueprint Structural Shapes & Symbols	120	24/96	80/20	4.5
4	PM 104	Pipe Welding Symbols & Metallurgy	120	24/96	80/20	4.5
*5	CW 105	Structural Code Welding	120	24/96	80/20	4.5
6	PW 301	Pipe Welding & OSHA Safety	120	40/80	80/20	5.0
7	PW 302	Combination Pipe Welding	120	24/96	80/20	4.5
8	PW 303	Code Pipe Welding	100	30/70	80/20	4.0
9	EP 103	Employment Preparation	50	30/20	80/20	2.5
*10	IN 108	Internship	100	0/0/100	00/00	2.0
		Total Hours and Credits - Certificate of Completion in Advanced Welding	1030	260/670/100		39.0

CERTIFICATE OF COMPLETION IN COMMERCIAL DRIVER TRAINING
Available at 9624 Plaza Circle Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC

CAREER OPPORTUNITIES IN COMMERCIAL DRIVER TRAINING

Employment of heavy truck and Semi truck drivers is projected to grow 9% percent from 2016 to 2026, about as fast as the average of all occupations. The economy depends on truck drivers to transport freight and keep supply chains moving. As the demand for goods increases, more truck drivers will be needed. Trucks transport most of the freight in the United States, so, as households and businesses increase their spending, the trucking industry will grow. The number of heavy trucks on the road has not reached prerecession levels, despite the increasing demand for freight transportation. To meet the demand, companies are starting to invest in new trucks that are more fuel efficient and easier to drive. For example, some new heavy trucks are equipped with automatic transmissions, blind-spot monitoring, and variable cruise control. Demand for truck drivers is expected to remain strong in the oil and gas industries as more drivers are needed to transport materials to and from extraction sites. (Source D.O.L. Occupational Outlook Handbook. 2018-2019 Edition)

The median annual wage for heavy truck and Semi truck drivers was \$41,340 in May 2016. The median wage is the wage at which half the workers in an occupation earned more than that amount, and half earned less. The lowest 10 percent earned less than \$27,920, and the highest 10 percent earned more than \$73,140. In May 2016, the median annual wages for heavy and tractor-trailer truck drivers in the top industries in which they worked were as follows: General Freight Trucking: \$43,520 Specialized Freight Trucking: \$41,650 Wholesale Trade: \$40,330.

Drivers of heavy trucks and Semi truck usually are paid by how many miles they have driven, plus bonuses. The per-mile rate varies from employer to employer and may depend on the type of cargo and the experience of the driver. Some long-distance drivers, especially owner–operators, are paid a share of the revenue from shipping.

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	185,215	2,697,700
Projected Employment 2026	217,493	131,600
Absolute Change 2016-2026	32,278	12,300
Percent Change 2016-2026	17.40%	9%
Average Hourly Wage 2016	\$21.76	\$20.32
Average Openings per year due to Replacement	Not available	Not available
Average Openings per year due to Growth	24,414	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

**CERTIFICATE OF COMPLETION IN COMMERCIAL DRIVER TRAINING
COURSES 1-3
200 CLOCK HOURS**

EDUCATIONAL OBJECTIVES

The Commercial Driver Training offered at WTC College is a 200-hour program, conducted in five weeks for day classes and ten weeks for night classes when offered. The program is designed to prepare individuals.

GRADUATION REQUIREMENT: To receive a Certificate of Completion for this program, a student must maintain a cumulative grade average of 70 and obtain a Commercial Driver License by the final day of the program session, depended on driving test scheduling availability. WTC works hard to ensure students are prepared to challenge the CDL exams through the Texas Department of Safety. The Department allows examinees up to three chances to test in each section which are made up of the “The Pre-Trip, The Backing Skills and The Driving Skills.” When students fail to pass an exam, WTC has provided additional time for practice which requires the help of instructor(s), trucks, trailers, and fuel costs at no additional charge. The use of these resources has caused a strain on WTC’s resources, therefore effective immediately, after any CDT student fails three road test exams, they will be required to pay WTC College an additional \$250.00 to cover the additional costs involved with practicing maneuvers and use of equipment and additional road test. Students must also meet the general graduation requirements

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. The ability to read and communicate effectively in English.
2. Must be able to operate a manual drive transmission and standard automatic.
3. The ability to detect or tell the differences between sounds that vary in pitch and loudness.
4. The ability to sit for long periods of time.
5. The ability to drive at night.
6. The ability to drive long distances and always stay alert.
7. The ability to climb steps.
8. The ability to match or detect differences between colors, including shades of color and brightness.
9. Must be flexible and able to bend, stretch, twist, or reach with arms extended, and/or legs.
10. The ability to adjust the controls of a vehicle quickly and repeatedly to exact positions.
11. The ability to lift to 50 pounds.

CERTIFICATE OF COMPLETION IN COMMERCIAL DRIVER TRAINING

#	Course	Title	Theory/Lab	% On-Ground/ Online	Clock Hours
1	PCDT 101	Practical Application to Truck Driving	75/5	80/20	80
2	PCDT 102	Basic Vehicle Operations/Range Training	13/27	80/20	40
3	PCDT 103	Advanced Vehicle Operations/Road Training	5/75	80/20	80
Total Hours – Certificate of Completion in Commercial Driver Training			93/107		200

CERTIFICATE OF COMPLETION IN DIESEL ADVANCED TECHNOLOGY EDUCATION (DATE)
Available at 9624 Plaza Circle Campus



Individual portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES FOR DIESEL ADVANCED TECHNOLOGY EDUCATION (DATE)

Diesel service technicians and mechanics held about 363,900 jobs in 2016. Diesel technicians usually work in well-ventilated and sometimes noisy repair shops. They occasionally repair vehicles on roadsides or at worksites. Most diesel technicians work full time. Overtime is common, as many repair shops extend their service hours during evenings and weekends. As more freight is shipped across the country, additional diesel-powered trucks will be needed to carry freight where trains and pipelines are not available or economical. Additionally, diesel cars and light trucks are becoming more popular, and more diesel technicians will be needed to maintain and repair these vehicles. Employment of diesel service technicians and mechanics is projected to grow 14 percent from 2016 to 2026, faster than the average for all occupations. Diesel engine maintenance and repair is becoming more complex as engines and other components use more electronic systems to control their operation. For example, fuel injection and engine timing systems rely heavily on microprocessors to maximize fuel efficiency and minimize harmful emissions. In most shops, workers often use hand-held or laptop computers to diagnose problems and adjust engine functions. (Source: D.O.L. Occupational Outlook Handbook, 2016-2026Edition).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	22,140	119,300
Projected Employment 2026	22,620	131,600
Absolute Change 2016-2026	5,080	12,300
Percent Change 2016-2026	24.80%	10.30%
Average Hourly Wage 2016	\$22.39	\$23.57
Average Openings per year due to Replacement	510	Not available
Average Openings per year due to Growth	410	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

EDUCATIONAL OBJECTIVES

The objective of the Certificate of Completion in Diesel Advanced Technology Education is to prepare the student for entry-level employment as a Volvo/Mack Truck diesel technician with the basic knowledge and skills to diagnose malfunctions, perform preventative maintenance and make necessary repairs on the following systems: diesel engines, suspension and steering, air brakes, electrical/electronics, drive train, heating ventilation and air conditioning. The student who completes the program will be prepared to work as an entry-level diesel service technician in medium/heavy-duty Volvo/Mack Truck dealerships, diesel repair facilities, service, and fleet maintenance facilities.

GRADUATION REQUIREMENT: Students graduating from this program must pass one professional level

medium/heavy truck series exam prior to their scheduled graduation date and students must actively participate in all assigned OEM training modules and must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. The ability to detect or tell the differences between sounds that vary in pitch and loudness.
2. The ability to see detail at close range (within a few feet of the observer).
3. The ability to match or detect differences between colors, including shades of color and brightness.
4. Sufficient flexibility to bend, stretch, twist, or reach with your body, arms, and/or legs.
5. The ability to adjust the controls of a machine or a vehicle quickly and repeatedly to exact positions.
6. Sufficient finger dexterity and steadiness to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.
7. Sufficient manual dexterity, strength, and steadiness to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
8. The ability to coordinate two or more limbs while sitting, standing, or lying down.
9. The ability to use your abdominal and lower back muscles to support and balance part of your body repeatedly or continuously over time without ‘giving out’ or fatiguing. Work may be done up to 6 feet off the ground.
10. The ability to lift to 50 lbs.

CERTIFICATE OF COMPLETION IN DIESEL ADVANCED TECHNOLOGY EDUCATION COURSES 1-12

672 CLOCK HOURS

28.0 SEMESTER CREDIT HOURS

CERTIFICATE OF COMPLETION IN DIESEL ADVANCED TECHNOLOGY EDUCATION

#	Course	Course Title	Hrs.	Theory/ Lab	% On- Ground/ Online	Semester Credit Hours
1	VMVF 201	Vehicle Familiarization	48	24/24	80/20	2.0
2	VMCM 202	Computer Navigation	48	24/24	80/20	2.0
3	VME 203	Volvo/Mack Electronics	48	24/24	80/20	2.0
4	VMAD & SRS 204	Aftertreatment Devices & Secondary Restraint Systems	48	24/24	80/20	2.0
5	VMA 205	Volvo/Mack Advanced Diagnostics I & II	96	40/56	80/20	4.0
6	VMEN 206	Volvo/Mack Engines	48	24/24	80/20	2.0
7	VMH 207	Volvo/Mack HVAC	48	24/24	80/20	2.0
8	VMPT 208	Volvo Mack Powertrains	48	24/24	80/20	2.0
9	VMB 209	Volvo/Mack Brake Systems	48	24/24	80/20	2.0
10	VMSS 210	Volvo/Mack Steering & Suspension	48	24/24	80/20	2.0
11	VMAD 211	Volvo/Mack Advanced Diagnostics III	48	24/24	80/20	2.0
12	CDL 212	CDL Training	96	40/56	00/00	4.0
Or						
	DTW 212	Basic Cutting & Welding	96	40/56	00/0	4.0
Total Hours and Credits - Certificate Of Completion in Diesel Advanced Technology Education			672	320/352/00		28.0

VMPT 208 **VOLVO/MACK POWERTRAINS** **40/24/2.0**
 Students will be given instruction on Mack and Volvo I-shift and M-drive transmissions service, diagnose, and repair. Throughout the shop/lab time apply the recommended Mack Truck and Volvo Truck procedures and special tools for transmission and differential diagnosis and repair. Students can expect 12 hours of homework and OEM training modules during this course.

VMB 209 **VOLVO/MACK BRAKE SYSTEMS** **24/24/2.0**
 Students will be given instruction on Mack and Volvo mechanical and electronic braking systems and details of the air braking systems used on Mack and Volvo Trucks, how to service, diagnose, repair, and adjust the vehicle's brakes, and what type of ABS system is in use on an individual truck. Students will learn how to test, repair, or replace sensor and ABS controls. The student can expect 12 hours of homework and OEM training modules during this course.

VMSS 210 **VOLVO/MACK STEERING & SUSPENSION** **24/24/2.0**
 Students will be given instruction on Mack and Volvo steering and suspension systems, how to service and adjust air ride suspension systems and steel leaf spring systems, how to identify, diagnose steering and stability system issues and correct alignment angles. learn to identify tire wear patterns and how steering and suspension systems effect tires. Throughout the shop/lab time apply the recommended Mack and Volvo Truck procedures and special tools for steering and suspension systems diagnostics and repairs, alignment of tires and correction of tire ware problems.
 The student can expect 12 hours of homework and OEM training modules during this course.

VMAD 211 **VOLVO/MACK ADVANCED DIAGNOSTICS III** **24/24/2.0**
 Students will be given an review of general diagnostic procedures and techniques, then how to apply more advanced diagnostics to identify fault codes using Mack and Volvo Trucks proprietary software, The advanced use of TDP and PTT with HD-OBD, ISO, J1939, J1587/1708 data link systems and multiplexing. Advanced use of an oscilloscope on injectors, cam and crank sensing timing, and data links. Throughout the shop/lab time apply the recommended Mack and Volvo Truck procedures and special tools for diagnostic, procedures, and techniques and correction of vehicle fault codes. The student can expect 12 hours of homework and OEM training modules during this course.

CDL 212 OPTION #1 **CDL TRAINING** **40/56/4.0**
 Students will receive entry-level training in commercial vehicle operation and driving with classroom and behind-the-wheel instruction. Including laws relating to intrastate commercial motor vehicle operations; pre- trip inspection, vehicles safety and operational equipment, placing the commercial motor vehicle in safe operation, the use of controls and emergency equipment. Inspection of mechanical components, defensive driving techniques, documentation, DOT logbooks, accident and fire prevention, reporting, Students will also be given demonstration and skill development of basic maneuvers of driving. Successful completion of this class should prepare the student to pass the Commercial Driver's License Class B (CDL) skill examination.

DTBCW 204 OPTION #2 **BASIC CUTTING AND WELDING** **40/56/4.0**
 During this course students will be taught how to set-up the oxyacetylene process for cutting and welding. learn the basic techniques for basic fillet welds. Safety precautions will be strictly enforced.

The shop/lab work will consist of the student applying the recommended shop and personal safety procedures, practice metal cutting and Horizontal welding.

CERTIFICATE OF COMPLETION IN MEDICAL BILLING AND CODING
Offered 100% online



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES IN MEDICAL BILLING AND CODING

Medical records and health information technicians held about 188,600 jobs in 2016. Medical records and health information technicians, commonly referred to as health information technicians, organize and manage health information data by ensuring that it maintains its quality, accuracy, accessibility, and security in both paper files and electronic systems. They use various classification systems to code and categorize patient information for insurance reimbursement purposes, for databases and registries, and to maintain patients' medical and treatment histories. Employment of health information technicians is projected to grow 15 percent from 2016 to 2026, much faster than the average for all occupations. (Source: D.O.L. Occupational Outlook Handbook, 2018-2019 Edition). Medical billers and coders will typically obtain, record, and update personal and financial information, schedule appointments, and verification and coordination of insurance. Obtain revenue by recording and collecting patient charges, acquire pre-authorization for procedures. (Source: D.O.L. Occupational Outlook Handbook, 2018-2019).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	17,355	186,300
Projected Employment 2026	21,111	227,500
Absolute Change 2016-2026	3,756	41,100
Percent Change 2016-2026	21.60%	22.10%
Average Hourly Wage 2016	\$20.17	\$18.68
Average Openings per year due to Replacement	Not available	Not available
Average Openings per year due to Growth	1,513	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

CERTIFICATE OF COMPLETION IN MEDICAL BILLING AND CODING COURSES
COURSES 1-11
1060 CLOCK HOURS
41.0 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The Medical Billing & Coding program is designed to prepare the individual for entry-level employment as a records coder, claims examiner, medical biller or related occupation in private health care practices, clinics, hospitals, government agencies, skilled nursing facilities, insurance companies, consulting firms and other health care facilities.

The Medical Billing & Coding program teaches students how to evaluate coding and billing practices and provides tools for developing compliance programs that will help minimize the risk of investigation.

The program balances knowledge of medical science, technical skills, and coding experience with assessment evaluation by professional coding specialists who care about a student’s success. The practical approach takes students through a careful step-by-step study of what medical coders and billers need to get the job done right.

CERTIFICATION AND EXAMINATION

The following certification examinations are offered:

National Healthcare Association (NHA) • NHA – CEHRS – Certified Electronic Health Records Specialist

American Academy of Professional Coders(AAPC) • AAPC-CPC-A- Professional Coder Apprentice

American Health Information Management Association (AHIMA) • AHIMA-CCS-P- Certified Coding Specialist Physician

GRADUATION REQUIREMENT: Students graduating from this program must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. The ability to understand course materials and maintain a certain grade/performance level that meets the set academic requirements.
2. The ability to listen, understand, and communicate ideas presented through spoken words and sentences.
3. Satisfactory visual acuity for reading and documenting patient charts and creating patient accounts.
4. The ability to tolerate sitting and/or standing for extended periods of time without a break.
5. Students shall use confidentiality standards in accordance with professional health care environments about other students and/or internship patients.
6. Students shall not violate professional, ethical and safety standards.
7. The ability to utilize computers and perform basic computer functions with programs such as Word, Outlook, and Excel.

CERTIFICATE OF COMPLETION IN MEDICAL BILLING AND CODING

#	Course	Course Title	Hrs.	Theory/ Lab/ Internship	% On- Groun d/	Semester Credit Hours
1	MTAP 1401	Medical Terminology / Anatomy & Physiology	100	45/55	0/100	4.5
2	MOA 1401	Medical Office Administration	100	45/55	0/100	4.5
3	ICPT 1401	Introduction to Coding Principles & Theory	100	40/60	0/100	4.5
4	HC 1401	Health Claims	100	40/60	0/100	4.5
5	HC 1402	Health Claims	100	30/70	0/100	4.0
6	ACPT 1402	Advanced Coding Principles & Theory	100	30/70	0/100	4.0
7	DC 1401	Diagnostic Coding	100	25/75	0/100	4.0
8	AACPT 1403	Advanced Coding Principles & Theory	100	25/75	0/100	4.0
9	EP1101	Employment Preparation	15	0/15	0/100	0.5
10	MRC 1301	Medical Record Coder	85	15/70	0/100	3.0
11	IN1308	Internship	160	0/0/160	100/0	3.5
Total Hours and Credits – Certificate of Completion in Medical Billing & Coding			1060	285/615/160		41.0

and Disability Insurance, assign CPT Level I Codes and Modifiers, and assign Level II, National Codes and Modifiers.

HC 1401 **HEALTH CLAIMS** **40/60/4.5**

This course is designed to provide the student with the understanding and practical skills necessary to abstract from the medical record relevant information for completing the CMS-1500 claim form. Students will recognize general guidelines for completing forms for different carriers to include Medicare, Medicaid, and Workers' Compensation for physician services, DXL, surgery, anesthesia, and coordination of benefits. Students will have the opportunity to simulate the entire claims examination process in a group and individual setting. This course will provide the student with the skills needed to understand and process the insurance claims for physician services, x-ray, and laboratory services. The student will acquire the skills necessary to understand COB (Coordination of Benefits) in organizing the difference between primary and secondary payers, organize the order of benefit rules and rights. Students will also learn to determine coordination of benefits as they apply to managed care, Preferred Provider Organizations, and Health Maintenance Organizations. They will also learn to optimize payment in a timely and cost-efficient manner and the difference between clean, pending, rejected, incomplete and invalid claims and recognize and describe the reasons why claims are rejected. Students will learn to record proper information in financial records or on the patient's ledger card after claim submission. The course will provide understanding on how to complete the UB-04 (Uniformed Bill Inpatient and Outpatient) claim form and to know when it may or may not be used to minimize their chances of rejection by insurance companies. Students will understand medical reports and how they relate to billing forms and they will learn to recognize triage, operative, diagnostic, and medical history report. Students will continue their education in Anatomy and Physiology during this phase.

Upon completion of this course, students will be able to translate medical reports and their relation to billing forms, abstract from the patient record relevant information for completing the CMS-1500 claim form, recognize and apply proper guidelines for completing the CMS-1500 forms. Students will edit and complete insurance claims in both hospital inpatient and outpatient settings to minimize the chance of rejection by insurance carriers and comply with the National Correct Coding Initiative.

HC 1402 **HEALTH CLAIMS** **30/70/4.0**

Students will have the opportunity to manipulate industry related practice management software and familiarize themselves with today's computerized work environment which must be completed during the course, through a structured self-paced program. Students will be training for Electronic Health Records. Students will also continue their education in Anatomy and Physiology during this phase.

Upon completion of this course, students will be able to possess a working knowledge of the computerized electronic health record, train on Electronic Health Records, process, and Post payments, and eligible to sit for the Certified Electronic Health Records Specialist exam.

ACPT 1402 **ADVANCED CODING PRINCIPLES & THEORY** **30/70/4.0**

Students will learn the importance of capturing all aspects of Inpatient and Outpatient billing, which will give the students an understanding of procedures performed, services rendered, additional supplies, drugs, etc. that may be used in the medical practice. Students will continue their education in Anatomy and Physiology during this phase.

Upon completion of this course, students will be able to understand the procedures and services offered in an Inpatient and Outpatient setting, review and code from the operative, laboratory, and radiology reports, and understand how to abstract relevant information from the physician's progress notes in a medical chart. Students will be required to apply all coding guidelines and regulations set forth by CMS.

DC 1401 **DIAGNOSTIC CODING** **25/75/4.0**

In this course the student will also have the practical application of diagnostic coding from various medical records and they will be able to apply advanced anatomy and physiology with pathophysiology as it applies to the appropriate diagnostic codes.

CERTIFICATE OF COMPLETION IN MEDICAL CLINICAL ASSISTANT

Available at 9624 Plaza Circle Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES IN MEDICAL CLINICAL ASSISTANT

Employment of medical assistants is projected to grow 29 percent from 2016, much faster than the average for all occupations. The growth of the aging baby-boom population will continue to increase demand for preventive medical services, which are often provided by physicians. As a result, physicians will hire more assistants to perform routine administrative and clinical duties, allowing the physicians to see more patients. Employment of medical assistants held about 634,400 in 2016. By 2026 projected employment is about 818,400.

Medical assistants typically do the following: Record patient history and personal information, Measure vital signs, such as blood pressure, Help physicians with patient examinations, Give patients injections or medications as directed by physicians and as permitted by state law, Schedule patient appointments, Prepare blood samples for laboratory tests, Enter patient information into medical records. Medical assistants take and record patients’ personal information. They must be able to keep that information confidential and discuss it only with other medical personnel who are involved in treating the patient. Electronic health records (EHRs) are changing some medical assistants’ jobs. More and more physicians are adopting EHRs, moving all their patient information from paper to electronic records. Assistants need to learn the EHR software that their office uses. Medical assistants should not be confused with physician assistants, who examine, diagnose, and treat patients under a physician’s supervision.

In larger practices or hospitals, medical assistants may specialize in either administrative or clinical work.

(Source: D.O.L. Occupational Outlook Handbook, 2018-2019).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	58,571	634,400
Projected Employment 2026	79,526	818,000
Absolute Change 2016-2026	20,955	183,900
Percent Change 2016-2026	35.80%	29.00%
Average Hourly Wage 2016	\$15.18	\$16.16
Average Openings per year due to Replacement	Not available	Not available
Average Openings per year due to Growth	9,367	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

MISSION STATEMENT OF THE MEDICAL CLINICAL ASSISTANT PROGRAM

The mission of Medical/Clinical Assistant faculty and staff at WTC College is to prepare competent entry level medical assistants with the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains needed in the medical community.

PROGRAMMATIC ACCREDITATION

The Medical Clinical Assistant program at Western Technical College is programmatically accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

EDUCATIONAL OBJECTIVES

This program will cross train students for multiple skills areas, so they can become more employable. Students will receive 900 hours of comprehensive training in medical terminology, anatomy and physiology, concepts of effective communication; basic finances, third-party reimbursement, procedural and diagnostic coding, legal and ethical implications, applied mathematics, infection control, nutrition; electronic health records charting, patient data collection, clinical duties with special focus on phlebotomy, EKG, hemodialysis are incorporated into the training as well the completion of 168 hours of internship.

The following certification examinations are offered through the National Healthcareer Association (NHA):

- Certified Phlebotomy Technician
- Certified Electrocardiograph Technician
- Certified Clinical Medical Assistant
- Certified Medical Administrative Assistant

Our goal is to train students to be able to have the qualifications and training that allows them the option of what type of clinical setting they would like to work primarily in: physician office, clinics and/or hospitals. They will gain expertise to provide effective clinical and administrative skills.

Upon satisfactory completion of the training, students will be qualified to assume entry-level positions as a Medical/Clinical Assistant performing the medical procedures, lab techniques and front office duties described above.

NOTE: Students are required to demonstrate proficiency in both the psychomotor and affective competencies during each course. An inability to achieve the required level of competency will prevent the student from passing the course even if the overall grade for the course is “passing”. Example: If a student has an overall score of 75% in the course but fails a psychomotor or affective competency, she/he will have to repeat the course.

NOTE: Courses with prerequisites are denoted in the course outline with an asterisk (*).

NOTE: Students enrolled into the first course (AP101) are required to achieve 70% academically by day 14 or they will be canceled from the program.

GRADUATION REQUIREMENT: Students graduating from the MCA program are required to achieve at a minimum one (1) industry certification. Not passing a certification will result in WTC holding the Certificate of Completion/Final Transcript. Students will not be allowed to walk at formal graduation.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Must be able to communicate effectively (written and verbal)
2. Students shall practice confidentiality standards in accordance with professional health care environment and the ability to maintain a professional demeanor at all times while interacting with fellow students, internship site employees and clientele, administration, and faculty
3. Students shall display professional demeanor, language, and conduct that fosters a safe, productive, and ethical learning environment for them, and other students enrolled in the program
4. The ability to transfer patients safely from a variety of surfaces, i.e.: wheelchairs, beds, etc. and to lift equipment needed for patient care

forms, prefixes, and suffixes of the system's terminology. Students will list and explain some clinical procedures, lab tests, and abbreviations that pertain to the systems and build and analyze medical terms.

CL 101 **CLINICAL I** **50/46/4.5**

During this course, the importance of infection control, medical asepsis and sterilization methods will be practiced. take measurements and vital signs. learn how to take medical history, prepare patients for examinations and how to assist a physician and the patient with those examinations. The principles of pharmacology and how to dispense medication under the direct supervision of a physician will be discussed. Hands-on clinical training will be incorporated.

Upon completion of this course, students will be able to apply principles of aseptic technique and infection control; use of the autoclave, take body measurements and vitals sings, provide instructions and teaching for health maintenance and disease prevention, and prepare and administer medications, and demonstrate professionalism. Students will be able to assist with physical examinations and minor surgery, identify and care for instruments used in surgery, and obtain medical history and screen patients.

MF 102 **MEDICAL CLINICAL ASSISTANT FUNDAMENTALS** **50/46/4.5**

this course will acquaint the student with basic concepts of working in a medical office to include professional and career responsibilities. Develop interpersonal communication through telephone procedures, appointment setting and learning receptionist duties. Learn to maintain and file drug and prescription records. Also gain first-hand knowledge of written communication consisting of written correspondence, processing mail and telecommunication and professional reports. Learn professionalism skills in the allied health professions.

Upon completion of this course, students will be able to understand the importance of exercising interpersonal communication, perform appointment scheduling, create a patient file including SOAP notes, and maintain and file medical records. Students will also be able to demonstrate proper telephone etiquette and have a better understanding of employer expectations.

CL 103 **ECG/CPR** **50/46/4.5**

This course will introduce the student to Electrocardiography (ECG). The basic principles of the cardiovascular system will be taught in this course. Students will learn how to set up and operate ECG equipment. Patient instruction and procedural considerations will be addressed. also be instructed on the lead systems and placement and identifying rhythms. learn the importance of quality assurance and continual quality improvement. CPR and First Aid Training are given during this course. Spirometry, peak-flow, nebulizer treatment will be taught during this course. Topics related to maintaining health such as nutrition, exercise, and self-examination techniques, rehabilitation and healthy living are discussed.

Upon completion of this course, students should be able to perform an Electroencephalogram (EEG), Identify normal and abnormal heart rhythms, detect, and distinguish arrhythmias, perform CPR and First Aid training following the American Heart Association guidelines. Students will perform spirometry and peak flow, understand employer expectations, identify principle of body ergonomics, and describe dietary nutrients, dietary needs, and health concerns

IB 103 **MEDICAL INSURANCE / BOOKKEEPING & BILLING** **50/46/4.5**

This course will acquaint the student with the skills and knowledge of financial management and health insurance as they relate to daily functions in a medical office. learn the basic aspects of filing accurate claim forms for insurance reimbursement. ICD-10-CM, CPT, HCPS coding systems will be introduced. Records management to include patients' medical records through manual and electronic charting. Students will complete online HIPAA training and may receive certificate of completion.

Upon completion of this course, students should be able to obtain reimbursement through accurate claim submission using the CMS-1500 claim form, perform basic procedural and diagnostic coding, demonstrate accounts receivable

and accounts payable procedures, and use a physician's fee schedule. Students will also understand legal guidelines/requirements for healthcare and principles of medical ethics decision making, understand employer expectations, and understand HIPAA guidelines.

HM 104 **FUNDAMENTALS OF HEMODIALYSIS** **50/46/4.5**

This course is designed to provide the student with the principles of renal dialysis, the normal operation of dialysis equipment and the procedure for performance of renal dialysis. This course includes the study of the anatomy and physiology of the kidney and hands-on dissection of an actual kidney. The course will introduce the student to the technical aspects of preparing, operating, monitoring, and maintaining dialysis equipment. Attention is given to medications routinely used in renal dialysis and the role of the dialysis technician. Patient needs and safety issues are addressed. End-stage renal disease, methods for patient assessment and documentation, patient comfort and transfer are also discussed during this course. Students are introduced to the standards and regulations pertinent to water treatment and other quality control issues. Theoretical information is supplemented with clinical observation and practice.

Upon completion of this course, students will be able to understand infection control in the dialysis setting, understand the anatomy and function of the kidney, understand the fluid dynamics, osmosis, diffusion, and ultra-filtration, set up an arterial-venous blood line, and understand nutrition and renal diet. Students will prepare the dialysate, understand pre-assessment and post-patient assessment, and understand complications during the dialysis application.

CL 102 **PHLEBOTOMY** **66/60/6.0**

This course will introduce the student to phlebotomy including basic human anatomy and physiology, anatomy and physiology of the circulatory system, phlebotomy equipment, and phlebotomy techniques and safety. learn customer service and patient compliance. Specimen considerations and preparation and handling, as well as special procedures and challenges will also be taught in this course. learn sample consideration, preparations, and handling. Customer service, compliance with legal and ethical issues will be addressed.

Upon completion of this course, students will perform capillary and veni-punctures, use methods of quality control in the lab and demonstrate proper documentation, collect and process blood, urine, and other specimen for testing, and understand and implement CLIA and OSHA guidelines. Students will obtain various specimen for microbiological, serology, hematology testing, screen, and follow-up test results.

EP 101 **EMPLOYMENT PREPARATION** **15/15/1.5**

This course is designed to prepare students for the job-seeking process to include demonstration of personal and job-related behavioral skills. Resume construction, appropriate dress, persuasive interviewing techniques and mannerism will be covered. Students will be required to undergo a "mock" interview with the employer from their field of study. Furthermore, students will prepare through mock certification testing for their national certification exam. Students must receive a passing grade in EP 101 to qualify for graduation. Prerequisites: AP 101, CI 101, MF 102, CI 102, IB 103, CI 103, HM 104.

Upon completion of this course, students will be able to create an effective resume, interview in a professional manner, demonstrate his/her knowledge in responding to interview question appropriately, and conduct a self-directed job search.

INT 105 **INTERNSHIP** **0/0/168/3.5**

Students must satisfactorily complete all 8 core courses, which are administered throughout the program before being placed in an internship participating site. Internship enables the student to apply the knowledge and skills learned throughout the theoretical and clinical setting in the work environment. The student, with no financial remuneration, is placed in a medical office or clinic and is closely supervised to ensure that the school's objectives are being met. Internship is 168 hours in length.

Upon completion of this course, students will be able to demonstrate effective customer service skills, recognize areas that need improvement in performance and knowledge, and understand that there is more than one way of acceptable performance. Students will apply technical skills learned in the classroom in both the administrative and clinical areas, obtain a satisfactory grade on their final evaluation, and demonstrate how to properly interact with patients. Students will establish a network of support through colleagues, understand legal guidelines/ requirements for healthcare and principles of medical ethics and decision making. Students will demonstrate that they understand concepts of mental health and applied psychology, recognize, and respond to verbal and nonverbal communication, demonstrate proper telephone etiquette to include triaging and responding appropriately to emergency calls, and check patients in for office visits. They will establish, maintain, and file patient medical records; and schedule appointments, demonstrate their knowledge with Electronic Health Records. Upon the conclusion of the experience, students will update their resume, and final copy turned in to Program Director and Career services.

ASSOCIATE OF OCCUPATIONAL STUDIES DEGREES

ASSOCIATE OF OCCUPATIONAL STUDIES IN AUTOMOTIVE TECHNOLOGY

Available at 9624 Plaza Circle Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC

CAREER OPPORTUNITIES IN AUTOMOTIVE TECHNOLOGY

Automotive service technicians and mechanics held about 739,900 jobs in 2016. Numerous openings will be in automobile dealerships and independent repair shops, and about 1 in 10 automotive service technicians and mechanics were self-employed in 2016. Employment of automotive service technicians and mechanics is projected to grow 5 percent from 2016 to 2026, about as fast as the average for all occupations. The number of vehicles in use continues to rise, and more entry-level service technicians will be needed to perform basic maintenance and repair, such as replacing brake pads and changing oil. New technologies, however, such as electric vehicles, may limit future demand for automotive service technicians and mechanics because they will be more reliable and thus require less maintenance and repair. Of these workers, those who have completed formal postsecondary training programs or achieved ASE certification should enjoy the best job prospects. (Source: D.O.L. Occupational Outlook Handbook, 2018-2019 Edition).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	54,144	701,100
Projected Employment 2026	61,823	761,500
Absolute Change 2016-2026	7,679	60,400
Percent Change 2016-2026	14.20%	8.60%
Average Hourly Wage 2016	\$21.28	\$19.22
Average Openings per year due to Replacement	Not available	Not available
Average Openings per year due to Growth	6,096	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

CUSTOM TRAINING GROUP

A tremendous opportunity awaits WTC Automotive Graduates!

With today's shortage of skilled automobile and diesel technicians, some manufacturers are willing to provide outstanding benefits to attract new employees. Manufacturers are promoting FREE training, education, and placement with five luxury automotive and diesel manufacturers. If minimum qualifications are met, students who complete WTC's Automotive Technology program may be accepted for one of the following manufacturer's training

programs: AUDI TTC, VOLKSWAGEN VSTT, BMW STEP, MERCEDES-BENZ ELITE, VOLVO.

HOW TO PARTICIPATE IN MANUFACTURER TRAINING PROGRAMS

Participation in these programs is available to graduates of WTC's Automotive Technology Program. Graduates must pass a written test and an interview with the Custom Training Group (CTG). Only students with outstanding attendance records, grades, and attitudes can take the test. If selected, the student's tuition is paid by the manufacturer. After completing the training, CTG assists the graduates by sending out blanket résumés to all its participating dealerships. It is really a great opportunity for the students, and we at WTC are proud to be involved with CTG.

ASE EDUCATION FOUNDATION ACCREDITED PROGRAM IN AUTOMOTIVE TECHNOLOGY



WHAT DOES ASE MASTER LEVEL ACCREDITED IN AUTOMOTIVE MEAN?

ASE Education Foundation Master Level Accredited in Automotive means that WTC's Automotive Technology program has been accredited by ASE Education Foundation, in the following nine subject areas:

- A1. Engine Repair
- A2. Automatic Transmission/Transaxle
- A3. Manual Drive Train and Axles
- A4. Suspension and Steering
- A5. Brakes
- A6. Electrical/Electronic Systems
- A7. Heating and Air Conditioning
- A8. Engine Performance

HOW DID WTC'S AUTOMOTIVE PROGRAM BECOME ASE EDUCATION FOUNDATION ACCREDITED?

WTC completed an extensive evaluation and application process. Upon ASE Education Foundation review, an evaluation team conducted an on-site inspection of our campus to review the curriculum, teaching techniques, equipment and training aids, task sheets, tools, budget, and safety measures. WTC remains one of the few private career schools in the nation to be ASE Education Foundation Master LEVEL ACCREDITED in Automotive.

HOW DOES A WTC GRADUATE BENEFIT FROM AN ASE EDUCATION FOUNDATION MASTER LEVEL ACCREDITED PROGRAM?

To become ASE Certified, a person must have two years' work experience and pass ASE certification examinations. A graduate of the school's ASE Master Level Accredited program can substitute the training for one year of work experience toward ASE's two-year work requirement. In addition, information covered in the curriculum helps to prepare students to take the ASE examinations.

EXPERIENCED INSTRUCTIONAL STAFF

Our instructors are required to have recent and sufficient field experience and training before joining the WTC team. They share insights with our students that might otherwise take years to learn. We continually update our instructors with seminars and workshops to keep them abreast of new technology. In turn, they pass this knowledge on to our students. All of WTC's automotive instructors are required to be ASE Certified. A large percentage of the instructional staff is Master Certified in all areas of the automobile.

ASE EDUCATION FOUNDATION MASTER LEVEL ACCREDITED

WTC is one of the few private career schools in the nation to offer an automotive program that is Master Level Accredited by the ASE Education Foundation.

FIAT CHRYSLER AUTOMOTIVE (FCA), MOPAR CAP LOCAL SCHOOL TRAINING

There is great demand for high quality and skilled automotive technicians. This demand has outpaced the number of technicians the regular OEM programs can produce and FCA (Fiat Chrysler Automobiles) is the first to look at high quality colleges to help their local dealers find the technicians they need. The foundational training that you receive in class paired with the factory FCA training sets you apart from the other applicants in the industry, whether applying at a FCA dealer or not. The fact that the student will be able to show success and completion in actual dealership OEM training demonstrates your ability to learn and a solid baseline of technical knowledge. These credentials make you employable, more so than just a college education alone. Together they prepare you for success right now and into the future. Chrysler modules are a required part of the program, and accounts for 10% of the student's grade. Successful graduates upon leaving the program who has completed Level 0 and 1 can then begin working at an FCA dealership at a Level 2 status, and complete 80-90% of the warranty work that comes in while continuing to be trained in Level 2. This is the great value in the CAP Local program. Even if the graduate does not choose an FCA dealership, the OEM training they have received will look good on a resume and demonstrates their ability to complete factory training.

WTC has partnered with Toyota for the Toyota Certification Program.



AUTOMOTIVE TECHNOLOGY COURSES 1-20

1524 CLOCK HOURS

63.0 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The objective of the Automotive Technology Program is to train the student as an entry level automotive technician by providing them with the skills and knowledge to repair today's highly technical automobiles. be trained in automotive electronics and computer systems, diagnosis, engine rebuild, fuel and emission systems, air conditioning, brakes, steering and suspension, and drive trains. Students will learn the soft skills needed to be successful in the automotive workplace to include applied math, business writing and psychology.

GRADUATION REQUIREMENT: Students graduating from these programs are required to achieve at a minimum one (1) ASE certification and must also meet the general graduation requirements.

Graduates of this program will be prepared for entry level positions as technicians or in independent auto repair shops, automotive dealerships, tune-up shops and fleet vehicle maintenance.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Must be able to operate a manual drive transmission.
2. Must be able to drive and shift a vehicle with a standard transmission.
3. The ability to detect or tell the differences between sounds that vary in pitch and loudness.
4. The ability to decipher detail in short range (within a few feet from the observer).
5. The ability to sit for long periods of time.
6. The ability to stand for long periods of time.
7. Sufficient manual dexterity, strength, and steadiness to make precisely coordinated movements of the

===== **WESTERN TECHNICAL COLLEGE CATALOG** =====

fingers, hands, arms, to grasp, manipulate and assemble objects.

8. The ability to climb steps.
9. The ability to match or detect differences between colors, including shades of color and brightness.
10. Sufficient flexibility and to bend, stretch, twist, or reach with arms extended, and/or legs.
11. The ability to adjust the controls of a vehicle quickly and repeatedly to exact positions.
12. The ability to lift to 50 pounds.

NOTE: The sequential order of classes may differ from that included in the program outline below. Courses with prerequisites are denoted in the course outline with an asterisk (*).

ASSOCIATE OF OCCUPATIONAL STUDIES IN AUTOMOTIVE TECHNOLOGY

#	Course Number	Automotive Technology Course Title	Course Number for Electives	Performance Tuning Course Title	Hrs.	Theory / Lab	%On Campus/ Online	Semester Credit Units
1	AT 101	Fuel Systems & Electronics I			144	72/72	80/20	6.0
2	AT 102	Electronics II & Engine Diagnosis I			96	48/48	80/20	4.0
3	AM 101	Applied Math			48	48/0	80/20	3.0
4	AT 103	Engine Diagnosis II Engines			144	72/72	80/20	6.0
5	AT 104	Automotive Brakes Steering Suspensions I			144	72/72	80/20	6.0
6	AT 105	Steering Suspensions II Powertrains I			96	48/48	80/20	4.0
7	BWE 102	Business Writing			48	48/0	80/20	3.0
8	AT 106	Powertrains II Automatic Transmissions			144	72/72	80/20	6.0
9	AT 201	HVAC Hybrid Technology	PT 201	HVAC Performance Brakes & Suspensions	144	72/72	80/20	6.0
10	AT 202	Light Duty Diesel Engines & Fuel Systems	PT 202	Engine Enhancements Forced Induction	144	72/72	80/20	6.0
11	AT 203	Advanced Fuels & Advanced Electronics	PT 203	Engine Management Systems	96	48/48	80/20	4.0

physics involved with the automobile's engine operation. The student will be taught the principal operation of several engine systems, to include lubrication, cooling, oil, fuel, intake, and exhaust. The student will learn to perform diagnosis, service and repair on these same engine systems. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

AT104 AUTOMOTIVE BRAKES & STEERING & SUSPENSION I 72/72 6.0

During this course, the student will be introduced to the basic concepts involved in the brake, steering and suspension system. General safety practices, as well as safety procedures specific to brake systems, will be covered. The student will become familiar with how Pascal's law is used to increase force in a hydraulic system. The student will also be introduced to the design and operation of the following systems: front suspension, rear suspension, wheel bearing, tires, wheels, shock absorbers, struts, steering columns, steering linkage mechanisms, power steering pumps, rack and pinion gears, computer-controlled suspension systems, frames and four-wheel alignment. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

AT105 STEERING & SUSPENSIONS II POWERTRAINS I 48/48 4.0

During this course, the student will continue to work with various suspension designs and the use of various alignment equipment. The student will also be introduced to the fundamentals of design, construction, and operation of the automotive powertrain systems which transmit the engine's power to the vehicle's drive wheels. The student will learn the safety procedures and the basic theories that directly relate to the powertrain system. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

BWE102 BUSINESS WRITING ESSENTIALS 48 3.0

The Business Writing Essentials course will teach students the skills required to write business memos, business letters, and technical reports and to do research when necessary. Students will prepare a resume that can be used throughout their program. Team and individual effort will be required for a student to be successful in this course. A formal oral presentation will be required. This course includes one Chrysler module. The student can expect 12 hours of homework during this course.

AT106 POWERTRAINS II & AUTOMATIC TRANSMISSIONS 72/72 6.0

The student will continue to gain knowledge of the powertrain system and be introduced to the fundamentals of design, operation, and construction of the automobile's automatic transmissions and transaxles, which uses a combination of a torque converter and a planetary gear system to change gear ratios automatically. The students will review and practice drive train theory and automatic transmissions and transaxle theories of operation prior to learning the following systems: hydraulic circuits and apply devices, power flow, planetary gears, shafts, torque converter, clutch engagement and the basic transmission and transaxle electrical/electronic components, sensors, and their respective computer-controlled circuits. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

AT201 HVAC & HYBRID TECHNOLOGY 72/72 6.0

During the theory portion of this course, students will be introduced to the automotive heating and air conditioning systems. The students will learn health and safety practices, the proper use and care of air conditioning tools and equipment, as well as the basic theories, rules and regulations that apply to automotive air conditioning systems. The student will also be introduced to the fundamental principles of the electric

battery-operated Hybrid, Electric and Fuel-Cell Vehicles. The student will learn hybrid safety, hybrid benefits and the concepts and basic functions of the following Hybrid Systems: Series, Parallel, and Series Parallel, Mild and Assist. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

PERFORMANCE ELECTIVE

PT201 HVAC & PERFORMANCE BRAKE & SUSPENSIONS 72/72 6.0

During the theory portion of this course, students will be introduced to the automotive heating and air conditioning systems. The students will learn health and safety practices, the proper use and care of air conditioning tools and equipment, as well as the basic theories, rules and regulations that apply to automotive air conditioning systems. The student will also review to the basic concepts involved with the automobile's brake and suspension systems. The student will be taught the correct procedures needed to customize brake components specifically to produce the best results for a variety of different applications, such as road racing, drag racing and high-performance street cars. This course includes Chrysler modules. The student can expect 38 hours of homework during this course

AT202 LIGHT DUTY DIESEL ENGINES & FUEL SYSTEMS 72/72 6.0

This course will introduce the student to the fundamentals of design, construction, theory, and laws of physics involved with the operation of four (4) stroke cycle light duty diesel engines. The student will learn the principle operation and interaction of the major components of 4 stroke diesel engines, exhaust turbochargers, and superchargers. The student will also be introduced to the fundamentals of design, construction, and operation of the Dodge, GM, and Ford, diesel engine fuel injection, governors, and emission controls systems. Basic diesel engine theories and laws which govern the formulas concerning force, work, torque, and power will also be covered. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

PERFORMANCE ELECTIVE

PT202 ENGINE ENHANCEMENTS FORCED INDUCTION 72/72 6.0

This course will teach the student the terminology along with the special parts associated with high performance modified engine components designed to strengthen the motor. The student will also be introduced to the fundamentals of the three power adders: nitrous, superchargers, and turbochargers. The student will learn the operation and theory of wet and dry nitrous systems, as well as nitrous do's and don'ts, and centrifugal and root's type superchargers, selection and sizing, for both journal and ball bearing. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

AT203 ADVANCED FUELS & ELECTRONIC SYSTEMS 48/48 4.0

The students will review conventional and computer-controlled carburetors, emission control systems, on-board computers and computer input sensors before being introduced to the fundamentals of design, construction and operation of the common components found in most electronic fuel injection (EFI) systems and be introduced to the purpose and function of special computers, electrical/electronic diagnostic test equipment, and the basic theory of computer operation prior to the study of the automotive computer systems. This course includes Chrysler modules. The student can expect 38 hours of homework during this course.

COMM200 HUMAN COMMUNICATIONS 48 3.0

The Human Communication course serves to introduce the student to basic principles of human communication and apply those principles of effectively communication in the work environment. This course

is designed to develop the students written and verbal communication. This course is designed to address the need employers have for skilled employees who are proficient at problem-solving, who possess communication and soft skills. The student will be required to work on developing their soft skills and will be required to participate in group discussion, group presentations, and individual presentations, and individual presentation on real-world practical applications. The student can expect 12 hours of homework during this course.

PERFORMANCE ELECTIVE

PT203 ENGINE MANAGEMENT SYSTEMS 48/48 4.0

This course will introduce the student to the basic fundamentals and theory of how to select, install, and calibrate engine management systems, such as piggy-back and stand-alone systems. This course will focus on proper air/fuel ratios and timing maps, specifically for both low and wide-open throttle and will cover the actual “tuning” process. The student will be taught the different fuel and timing parameters for the three different power adders and they will learn how to “make power” using correct air/fuel ratios and ignition timing. This course includes Chrysler modules. The student can expect 38 hours of homework during this course

IN203 CAPSTONE & INTERNSHIP 228/6.0

In this course, students will be tested with written and hands on ASE based tests to demonstrate their knowledge and understanding of all the courses they have taken within the Automotive Technology Program. Upon demonstrating their proficiency, they student will be able to apply the knowledge and skills they have learned in a workplace environment in the Western Tech’s Automotive Technology Internship Program. The Internship Program will allow students to experience situations that occur during the daily operation of a working shop. Students will be able to apply the knowledge and skills they have learned in previous courses to the workplace environment. Students entering this program must have satisfactorily completed all previous courses of the Automotive Technology Program.

Each student will be placed in an approved automotive repair, service, or maintenance facility without monetary compensation to continue his/her training alongside experienced automotive technicians. The Internship Coordinator will closely supervise each student's progress for a total of one-hundred eighty (180) hours. Supervision will consist of reviewing student evaluations and scheduled/unscheduled weekly extern site contact. Student evaluations will be completed by the extern site manager or supervisor on a weekly basis.

The Internship Program Coordinator will review the student's weekly evaluation as well as any extern site recommendations with each student individually. During the review, any deficiencies indicated will be addressed with the student. The student will work with the Internship Program Coordinator to establish an individual study program designed to address and correct the areas that need improvement. The students will follow their individual study program during the weekly classroom sessions until satisfactorily completed. This course includes Chrysler modules. The student can expect 12 hours of homework during this course.

ASSOCIATE OF OCCUPATIONAL STUDIES IN DIESEL MECHANICS

Available at 9624 Plaza Circle Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES IN DIESEL MECHANICS

Diesel service technicians and mechanics held about 263,900 jobs in 2016. Diesel technicians usually work in well-ventilated and sometimes noisy repair shops. They occasionally repair vehicles on roadsides or at worksites. Most diesel technicians work full time. Overtime is common, as many repair shops extend their service hours during evenings and weekends. As more freight is shipped across the country, additional diesel-powered trucks will be needed to carry freight where trains and pipelines are not available or economical. Additionally, diesel cars and light trucks are becoming more popular, and more diesel technicians will be needed to maintain and repair these vehicles. Employment of diesel service technicians and mechanics is projected to grow 12 percent from 2016 to 2026, faster than the average for all occupations. Diesel engine maintenance and repair is becoming more complex as engines and other components use more electronic systems to control their operation. For example, fuel injection and engine timing systems rely heavily on microprocessors to maximize fuel efficiency and minimize harmful emissions. In most shops, workers often use hand-held or laptop computers to diagnose problems and adjust engine functions. (Source: D.O.L. Occupational Outlook Handbook, 2018-2019 Edition).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	14,140	119,300
Projected Employment 2026	17,220	131,600
Absolute Change 2016-2026	3,080	12,300
Percent Change 2016-2026	21.80%	10.30%
Average Hourly Wage 2016	\$22.17	\$23.42
Average Openings per year due to Replacement	410	Not available
Average Openings per year due to Growth	310	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

DAIMLER TRUCKS NORTH AMERICA (DTNA) GET AHEAD PROGRAM

Take real web-based factory training that is recognized by Freightliner® and Western Star® Truck Dealerships and Detroit™ Engine Distributors. WTC's partnership with DTNA and the DTNA service network offers advanced job opportunities for you. The fifty-five Daimler modules are a requirement of the program and accounts for 20% of the student's grade. It is a dealership-based program.

VOLVO-DATE program is Corporate training-based program.

DATE Program Eligibility

New students enrolling into the Diesel Technology Degree program. To be eligible to participate in the Volvo/Mack Truck DATE courses the student must meet the following criteria.

1. Have and maintain a 3.0 or higher cumulative GPA throughout the Diesel Degree Program.
2. Have and maintain a 97% or higher attendance rate throughout the Diesel Degree Program.
3. Submit a written application to attend the Volvo / Mack Truck DATE courses during ninth basic core course.
4. Pass the application interview during the tenth basic core course and be accepted.

NOTE: Students that fail to maintain the minimum 3.0 GPA and 97% attendance requirements after being accepted into the Volvo/Mack Truck DATE courses are subject to being removed from the Volvo / Mack Truck DATE courses. The student may be allowed to continue the Diesel Program by attending the alternative Diesel Technology courses.

ASE EDUCATION FOUNDATION ACCREDITED PROGRAM IN DIESEL MECHANIC



WHAT DOES ASE MASTER LEVEL ACCREDITED IN DIESEL MECHANIC MEAN?

ASE Education Foundation Master Level Accredited in Automotive means that WTC's Automotive Technology program has been accredited by ASE Education Foundation. WTC completed an extensive evaluation and application process. Upon ASE Education Foundation review, an evaluation team conducted an on-site inspection of our campus to review the curriculum, teaching techniques, equipment and training aids, task sheets, tools, budget, and safety measures. WTC remains one of the few private career schools in the nation to be ASE Education Foundation Master LEVEL ACCREDITED in Automotive.

HOW DOES A WTC GRADUATE BENEFIT FROM AN ASE EDUCATION FOUNDATION MASTER LEVEL ACCREDITED PROGRAM?

To become ASE Certified, a person must have two years' work experience and pass ASE certification examinations. A graduate of the school's ASE Master Level Accredited program can substitute the training for one year of work experience toward ASE's two-year work requirement. In addition, information covered in the curriculum helps to prepare students to take the ASE examinations.

EXPERIENCED INSTRUCTIONAL STAFF

Our instructors are required to have recent and sufficient field experience and training before joining the WTC team. They share insights with our students that might otherwise take years to learn. We continually update our instructors with seminars and workshops to keep them abreast of new technology. In turn, they pass this knowledge on to our students. All of WTC's automotive instructors are required to be ASE Certified. A large percentage of the instructional staff is Master Certified in all areas of the automobile.

ASE EDUCATION FOUNDATION MASTER LEVEL ACCREDITED

WTC is one of the few private career schools in the nation to offer an automotive program that is Master Level Accredited by the ASE Education Foundation.

- T2. Truck Diesel Engines T3. Truck Drive Train T4. Truck Brakes
- T5. Truck Suspension & Steering
- T6. Truck Electrical & Electronic Systems T7. Truck HVAC
- T8. Truck PM Truck Hydraulics

AOS DEGREE IN DIESEL MECHANICS COURSES

COURSES 1-12

1524 CLOCK HOURS

63.0 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The objective of the Associate of Occupational Studies in Diesel Mechanics is to prepare the student for entry-level employment as a diesel technician with the basic knowledge and skills to diagnose malfunctions, perform preventative maintenance and make necessary repairs on the following systems: diesel engines, suspension and steering, air brakes, electrical/electronics, drive train, heating ventilation and air conditioning, and hydraulics.

The student who completes the program will be prepared to work as an entry-level diesel service technician in medium/heavy-duty dealerships, diesel repair facilities, service, and fleet maintenance facilities.

NOTE: The sequential order of classes may differ from that included in the program outline below. Courses with prerequisites are denoted in the course outline with an asterisk (*).

GRADUATION REQUIREMENT: Students graduating from these programs are required to achieve at a minimum one (1) ASE certification and must also meet the general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Must be able to operate a manual drive transmission.
2. Must be able to drive and shift a vehicle with a standard transmission.
3. The ability to detect or tell the differences between sounds that vary in pitch and loudness.
4. The ability to decipher detail in short range (within a few feet from the observer).
5. The ability to sit for long periods of time.
6. The ability to stand for long periods of time.
7. Sufficient manual dexterity, strength, and steadiness to make precisely coordinated movements of the fingers, hands, arms, to grasp, manipulate and assemble objects
8. The ability to climb steps.
9. The ability to match or detect differences between colors, including shades of color and brightness.
10. Sufficient flexibility and to bend, stretch, twist, or reach with arms extended, and/or legs.
11. The ability to adjust the controls of a vehicle quickly and repeatedly to exact positions.
12. The ability to lift to 50 pounds.

ASSOCIATE OF OCCUPATIONAL STUDIES IN DIESEL MECHANICS

#	Course Number	Volvo/ Mack Course Title	Course Numbers for Diesel Technology	Diesel Technology Course Title	Hrs.	Theory/ Lab	% On-Campus/ Online	Semester Credit Hours
*1			DT 101	Electronic & Hydraulic Fundamentals	144	72/72	80/20	6.0
2			DT 102	Engines & Engine Accessories	96	48/48	80/20	4.0
3			AM101	Applied Mathematics	48	48/0	80/20	3.0
4			DT 103	Intro to Diagnostics Drive Trains Steering & Suspension	144	72/72	80/20	6.0
5	VM 201	Basic Brakes Vehicle Familiarization Computerized Navigation	DT 201	Basic Brakes Preventive Maintenance	144	72/72	80/20	6.0
5	VM 202	VM HVAC VM Engines	DT 202	HVAC Advanced Electrical	144	72/72	80/20	6.0
6	VM 203	V/M Electrical Drive Trains	DT 203	Hydraulic Principles Advanced Drive Trains	96	48/48	80/20	4.0
7	BWE 102	Business Writing	BWE 102	Business Writing	48	48/0	80/20	3.0
8	VM 204	VM Steering & Suspension Brakes After Treatments	DT 204	Fuel System & Emission Systems	144	72/72	80/20	6.0
9	VM 205	VM Advanced Diagnostics I, II & III	DT 205	Advanced Steering & Suspensions Advanced Brakes PC Based Diagnostics	144	72/72	80/20	6.0
10	VMC 206 or	Commercial Driving or	DTC 206 or	Commercial Driving or	96	40/56	*80/20	4.0

will consist of the student is applying the recommended shop and personal safety procedures, and learning how to read and interpret wiring diagrams, and correctly identifying and using the service tools and test equipment required to perform service, and repairs on on-board computer systems. The student can expect 38 hours of homework during this course. This course includes OEM training modules.

VM202

Volvo/Mack

HVAC / ENGINES

72/72/6.0

In this course the student will be given instruction on Mack and Volvo HVAC component location and function during normal operation, how to locate and operate the cab and sleeper HVAC controls during the servicing procedure and how to service, troubleshoot and repair the vehicle's HVAC system for the cab and sleeper using a/c recovery/recycling equipment. The student will be given instruction on how to identify and explain the components of a Volvo D-series and/or Mack MP-series engine. Students will learn how to disassemble, inspect and overhaul a Volvo or Mack engine. Students will also learn the ability to properly identify parts failure and how to properly research parts needed to repair the engine to working order as needed. Throughout the shop/lab time the student will apply the recommended Mack Truck and Volvo Truck procedures and special tools for engine overhaul, parts failure analyzes and correct repair parts selection. Students will also participate in organization and workflow management while in a shop environment. The student can expect 38 hours of homework during this course. This course includes OEM training modules.

DT203

ADVANCED HYDRAULICS & ADVANCED DRIVE TRAINS

48/48/4.0

During this course, the student will review Hydraulic Fundamentals that were previously covered before they will be introduced to the design, construction, theory and operation of the medium/heavy-duty truck mechanical and hydraulic systems, to include hydraulic pumps, tanks, hoses, fittings, valves, and actuators. In addition, during this course, the student will review basic drivetrains that was covered and will be introduced to advanced theory, design, construction, operating principles and diagnostics of medium/heavy-duty truck drivetrain systems that include manual transmissions, clutches, drive shafts, universal joints, semi-full floating drive axles, multi-wheel drive systems, power take off, air operated shifting, two speed and controlled traction differentials, and tires/rims. Students will review air/hydraulic principles and components operation, and the basic theories such as engine torque multiplication and gear theory will be taught. The student can expect 38 hours of homework during this course. This course includes OEM training modules.

VM203

Volvo/Mack

ELECTRICAL & DRIVE TRAINS

48/48/4.0

In this course the student will review what electricity is and how it is used within the vehicle, the differences between voltage, amperage, and current and how they apply to Ohm's Law. Various circuit types including simple, series, parallel, and series-parallel circuits. Identifying proper volt drops and amperage draws for a starting and charging circuit. The student will also review how to read and interpret wiring schematics and identifying proper wiring and harness repairs on the vehicle. The student will learn how to identify Volvo Trucks specific and Mack Trucks Specific Engine Control Module configurations and the three-module design used by Volvo Trucks and Mack Trucks. The student will also learn how to determine the function of the sensors, controls, and actuators of Mack and Volvo Engine platforms.

In addition the student will be given instruction on Mack and Volvo I-shift or M-drive transmissions, how to service, troubleshoot, and repair transmissions (M-Drive and I-Shift) using Mack and Volvo specific electronic resources, how to use PTT and VCADS to properly actuate the automated transmission diagnostic tools, how to correctly identify a Mack top-load differential assembly. Students will also learn how to service,

troubleshoot, and repair Mack differential and power divider assemblies and completely disassemble and reassemble the Mack differential using the specified repair manual.

Throughout the shop/lab time the student will apply the recommended Mack Truck and Volvo Truck procedures and special tools for transmission and differential diagnosis and repair. Students will also participate in organization and workflow management while in a shop environment. The student can expect 38 hours of homework during this course. This course includes OEM factory training modules.

BWE102

BUSINESS WRITING

48/0/3.0

The Business Writing Essentials course will teach students the skills required to write business memos, business letters, and technical reports and to do research when necessary. Students will prepare a resume that can be used throughout their program. Team and individual effort will be required for a student to be successful in this course. A formal oral presentation will be required. This course includes OEM training modules

DT204

FUEL & EMISSION SYSTEMS

72/72/6.0

The student will be introduced to the fundamentals of design, construction, and operation of the Detroit, International, Cummins, and Caterpillar diesel engine fuel injection, and governors. Additionally, the fundamentals of design, construction, and operation of EPA diesel fuel emission system requirements will be taught. Students will also be trained on Diesel Particulate Filter (DPF) systems. Student will learn how to identify catalyzed and non-catalyzed Diesel Particulate Filter systems, the components specific to catalyzed and non-catalyzed DPF systems, how to properly diagnose, repair and maintain DPF and be able to describe the process of regeneration and what chemical changes are occurring in the DPF unit. The regeneration and sublimation process for the diesel particulate filter (DPF) and the selective catalyst reduction (SCR) system, what environmental contamination is reduced, diesel exhaust fluid (DEF) and the proper handling procedures, how to service, diagnose and repair the vehicle emission systems.

Students can expect 38 hours of homework during this course. This course includes OEM training modules.

VM204

72/72/6.0

Volvo/Mack STEERING & SUSPENSIONS, BRAKES, AFTER TREATMENTS & SCR SYSTEMS

In this course the student will be given instruction on Mack and Volvo specific steering and suspension systems. The student will also be given instruction on Mack and Volvo specific Mechanical and electronic braking systems. The student will learn details about the air braking systems used on Mack Trucks and Volvo Trucks, how to service, troubleshoot, repair, and adjust as necessary the vehicle's brakes, and what type of ABS system is in use on an individual truck. Diesel Particulate Filter (DPF) systems & Secondary Restraint Systems on Mack Trucks and Volvo Trucks will also be taught. Student will learn how to identify catalyzed and non-catalyzed Diesel Particulate Filter systems, the components specific to catalyzed and non-catalyzed DPF systems, how to properly diagnose, repair and maintain DPF and be able to describe the process of regeneration and what chemical changes are occurring in the DPF unit.. Students will also diagnosis and repair Mack and Volvo Secondary Restraint Systems. Students will participate in organization and workflow management while in a shop environment. The student can expect 38 hours of homework during this course. This course includes OEM training modules.

DT205

72/72/6.0

ADVANCED STEERING & SUSPENSIONS, BRAKES & PC BASED DIAGNOSTICS

During this course, the student will review basic steering and suspension systems. They will then be introduced to advanced design, construction, and theory of the medium/heavy-duty truck front and rear

suspensions and brake systems. Students will also perform diagnosis, service, and repairs on these same systems. Students will also be introduced to advanced design, construction, and theory of the medium/heavy truck onboard computer systems that include engine and body computers, input/output sensors, electronic instrumentation, electronic lighting, anti-theft, passive restraint, electrical accessories, and electronic chassis controls. The shop/lab work will consist of the student is applying the recommended shop and personal safety procedures, and learning how to read and interpret wiring diagrams, and correctly identifying and using the service tools and test equipment required to perform diagnosis, service, and repairs on on-board computer systems. The student can expect 38 hours of homework during this course. This course includes OEM training modules.

VM254

Volvo/Mack

ADVANCED DIAGNOSTICS I, II & III

72/72/6.0

In this course the student will be given instruction on general and advanced diagnostic troubleshooting practices, procedures, and techniques in a shop environment. Student will learn how to identify fault codes on a vehicle using Mack Trucks and Volvo Trucks proprietary diagnostic software, how to use TDP and PTT during troubleshooting procedures, how to identify HD-OBD and how it will be used in Mack Trucks and Volvo Trucks, J1939, and J1587/1708 data link systems as well as multiplexing, the use of oscilloscopes for electrical fault troubleshooting. In this course the student will be given a review on previously learned general and advanced diagnostic troubleshooting practices, procedures, and techniques, the student will also learn how to use the general diagnostics and advanced diagnostics in a shop environment, how to successfully identify fault codes on a vehicle using Mack Trucks and Volvo Trucks proprietary diagnostic software, and how to the use of TDP and PTT during troubleshooting procedures. The student will learn how to identify HD-OBD and how it will be used in Mack Trucks and Volvo Trucks, an understanding of the ISO, J1939, and J1587/1708 data link systems as well as multiplexing and detailed use of oscilloscope usage on injectors, cam and crank sensing timing, and data link troubleshooting.

Throughout the shop/lab time the student will apply the recommended Mack Truck and Volvo Truck procedures and special tools for diagnostic troubleshooting practices, procedures, and techniques and correction of vehicle fault codes. Students will also participate in organization and workflow management while in a shop environment. This course includes OEM training modules. The student can expect 38 hours of homework during this course.

DTC 206/VMC 206 OR DTW 206 /VMW 206

46/48/4.0

COMMERCIAL DRIVING OR BASIC CUTTING & WELDING

OPTION #1- 96 HOURS- COMMERCIAL DRIVER LICENSE (CDL) TRAINING

The student will receive entry-level training in commercial vehicle operation and driving with classroom and behind-the-wheel instruction. This will include laws relating to intrastate commercial motor vehicle operations, pre-trip inspection, vehicles safety and operational equipment. Coupling and uncoupling of combination units, placing the commercial motor vehicle in safe operation, the use of controls and emergency equipment. The student will be trained on inspection of mechanical components, defensive driving techniques, cargo loading, securing load, documentation, map reading, DOT logbooks, trip planning, accident and fire prevention, reporting, hazardous material transportation and documentation. The students will also be given demonstration and skill development of basic maneuvers of driving a combination vehicle. Driving proficiency development will include vehicle control, backing, visual search, shifting, turning, space and speed management, and hazard perception. Successful completion of this class should prepare the student to pass the Commercial Driver's License (CDL) skill examination.

Classroom and behind-the-wheel instruction will consist of: laws relating to either interstate and/or intrastate commercial motor vehicle operations; pre-trip inspection of commercial motor vehicles and both safety and operational equipment; coupling and uncoupling of combination units, if the commercial motor vehicle to be driven includes such units; placing the commercial motor vehicle in operation; use of the commercial motor vehicle's controls and emergency equipment; operation of the inner-city and interstate highway traffic and passing; turning, backing, and parking the commercial motor vehicle; braking and slowing the vehicle by means other than application of the brakes; and completing driver's daily log books. Students that select this option must meet all state and Federal requirements related to obtaining a **Class "B" CDL**.

*** Commercial Driver Training is a Non-Hybrid course**

OPTION #2-96 HOURS-BASIC CUTTING AND WELDING

During this course, the student will be taught how to set-up the oxyacetylene process for cutting and welding. The student will learn the basic techniques for basic fillet welds. Safety precautions will be strictly enforced. The shop/lab work will consist of the student applying the recommended shop and personal safety procedures, the student will practice metal cutting and horizontal welding.

COMM 200

HUMAN COMMUNICATIONS

48/0/3.0

The Human Communication course serves to introduce the student to basic principles of human communication and apply those principles of effectively communication in the work environment. This course is designed to develop the students written and verbal communication. This course is designed to address the need employers have for skilled employees who are proficient at problem-solving, who possess communication and soft skills. The student will be required to work on developing their soft skills and will be required to participate in group discussion, group presentations, and individual presentations, and individual presentation on real-world practical applications. The student can expect 38 hours of homework during this course.

IN206

CAPSTONE & INTERNSHIP

16/32/180/6.0

In this course, students will be tested with written and hands on ASE based tests to demonstrate their knowledge and understanding of all the courses they have taken within the Automotive Technology Program. Upon demonstrating their proficiency, they student will be able to apply the knowledge and skills they have learned in a workplace environment in the Western Tech's Automotive Technology Internship Program. The Internship Program will allow students to experience situations that occur during the daily operation of a working shop. Students will be able to apply the knowledge and skills they have learned in previous courses to the workplace environment. Students entering this program must have satisfactorily completed all previous courses of the Automotive Technology Program.

Each student will be placed in an approved automotive repair, service, or maintenance facility without monetary compensation to continue his/her training alongside experienced automotive technicians. The Internship Coordinator will closely supervise each student's progress for a total of one-hundred eighty (180) hours. Supervision will consist of reviewing student evaluations and scheduled/unscheduled weekly extern site contact. Student evaluations will be completed by the extern site manager or supervisor on a weekly basis. The Internship Program Coordinator will review the student's weekly evaluation as well as any extern site recommendations with each student individually. During the review, any deficiencies indicated will be addressed with the student. The student will work with the Internship Program Coordinator to establish an individual study program designed to address and correct the areas that need improvement. The students will follow their individual study program during the weekly classroom sessions until satisfactorily completed. This course includes Chrysler modules. The student can expect 12 hours of homework during this course

ASSOCIATE OF OCCUPATIONAL STUDIES IN REFRIGERATION AND HVAC TECHNOLOGY

Available at 9624 Plaza Circle Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES IN REFRIGERATION AND HVAC TECHNOLOGY

Employment of heating, air conditioning, and refrigeration mechanics and installers is projected to grow 14 percent from 2016 to 2026, much faster than the average for all occupations. Commercial and residential building construction will drive employment growth. Heating and air conditioning systems control the temperature, humidity, and overall air quality in homes, businesses, and other buildings. By providing a climate-controlled environment, refrigeration systems make it possible to store and transport food, medicine, and other perishable items. The growing number of sophisticated climate-control systems is also expected to increase demand for qualified HVACR technicians. Job opportunities for HVACR technicians are expected to be excellent, particularly for those who have completed training at an accredited technical school or through an apprenticeship. Candidates familiar with computer tablets and electronics, as well as those who have developed troubleshooting skills, will have the best job opportunities as employers continue to have difficulty finding qualified technicians to install, maintain, and repair complex new systems. (Source: D.O.L. Occupational Outlook Handbook, 2018-2019 Edition).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	26,371	367,600
Projected Employment 2026	32,562	523,500
Absolute Change 2016-2026	6,191	65,900
Percent Change 2016-2026	23.50%	22.90%
Average Hourly Wage 2016	\$22.15	\$25.17
Average Openings per year due to Replacement		Not available
Average Openings per year due to Growth	3,409	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

**HVAC TECHNOLOGY
COURSES 1-28
1488 CLOCK HOURS
60.0 SEMESTER CREDIT HOURS**

EDUCATIONAL OBJECTIVES

The Associate of Occupational Studies Degree in Refrigeration and HVAC Technology program trains students in basic refrigeration principles, basic electricity, air conditioning, and sheet metal work. Students receive additional training in commercial refrigeration, commercial air conditioning, motor controls, and ice machines. The Refrigeration and HVAC Technology program incorporates modern efficiency concepts that tie in energy sustainability and weatherization. This program incorporates energy management, thermography, and energy auditing concepts along with basic solar electricity (photovoltaics) and wind power.

The Refrigeration and HVAC Technology program prepares graduates for entry level positions as refrigeration technicians, air conditioning technicians, maintenance technicians, or sheet metal workers. With the special training, the graduates have the possibility for rapid advancement due to their knowledge of high efficiency systems and concepts.

CERTIFICATIONS

- Environmental Protection Agency (EPA)-608
- R-410 Refrigerant Safety Certification
- HVAC Excellence Electrical Assessment Exam
- NABCEP Level Exam
- Texas Dept. of Licensing & Regulations Registered Technician License*

NOTE: Students will have to pass a background check to register with the Texas Dept. of Licensing & Regulations.

GRADUATION REQUIREMENT: All students graduating from this program are required to achieve the EPA 608 certification (minimum TYPE II certification) prior to their scheduled graduation dates must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. The ability to see detail at close range (within a few feet of the observer).
2. The ability to match or detect differences between colors, including shades of color and brightness.
3. Sufficient flexibility to bend, stretch, twist, or reach with your body, arms, and/or legs.
4. Sufficient finger dexterity and steadiness to make precisely coordinated movements of the fingers of one or both hands.
5. Ability to grasp, manipulate, or assemble very small objects.
6. Ability to support body while standing, sitting, squatting, or lying down repeatedly or continuously over time without “giving out” or fatiguing.
7. The ability to lift to 50 lbs.
8. The ability to climb both step and extension ladders.
9. The ability to work in high places (i.e. roof tops, catwalks, platforms)

NOTE: The sequential order of the classes may differ from that included in the program outline below. Courses with prerequisites are denoted in the course outline with an asterisk (*).

ASSOCIATE OF OCCUPATIONAL STUDIES IN REFRIGERATION AND HVAC TECHNOLOGY

#	Course Number	Course Title	Hrs.	Theory /Lab	% On-Campus/ Online	Semester Credit Hours
1	TF-101	Technical Fundamentals	48	32/16	80/20	2.5
2	TF-102	Technical Fundamentals Lab	48	0/48	100/0	1.5
*3	AM-101	Applied Math I	48	32/16	80/20	2.5
*4	EL-102	Basic Electricity	48	32/16	80/20	2.5
*5	EL-103	Basic Electricity Lab	48	0/48	100/0	1.5
6	AM-102	Applied Math II	48	32/16	80/20	2.5
*7	FR-103	Fundamentals of Refrigeration	48	32/16	80/20	2.5
*8	FR-104	Fundamentals of Refrigeration Lab	48	0/48	100/0	1.5
9	BWE-104	Business Writing Essentials	48	16/32	80/20	2.0
*10	AC-106	Air Conditioning	48	32/16	80/20	2.5
*11	AC-107	Air Conditioning Lab	48	0/48	100/0	1.5
12	GS-105	General Sheet Metal	48	16/32	80/20	2.0
13	HS-109	Heating Systems	48	32/16	80/20	2.5
14	HS-110	Heating Systems Lab	48	0/48	100/0	1.5
15	RM-207	Refrigerant Management I	48	16/32	80/20	2.0
16	ACC-201	Commercial Air Conditioning	48	32/16	80/20	2.5
*17	ACC-202	Commercial Air Conditioning Lab	48	0/48	100/0	1.5
18	RM-208	Refrigerant Management II	48	16/32	80/20	2.0
19	RC-203	Commercial Refrigeration	48	32/16	80/20	2.5
20	RC-204	Commercial Refrigeration Lab	48	0/48	100/0	1.5
21	IM-204	Ice Machines	48	16/32	80/20	2.0
*22	HEM-206	Electric Motors and Controls	48	32/16	80/20	2.5
*23	HEM-207	Electric Motors and Controls Lab	48	0/48	100/0	1.5
24	REA-210	Renewable Energy Applications	48	16/32	80/20	2.0
25	HDI-209	Diagnostics and Installation Procedures	48	32/16	80/20	2.5
26	HDI-210	Diagnostics and Installation Procedures Lab	48	0/48	100/0	1.5
27	HUCOMM	Human Communication	48	16/32	80/20	2.0
*28	HIN-209	Internship	192	16/16/160	00/00	5.0
Total Hours- AOS Degree in Refrigeration and HVAC Technology		1488		564/764/160		60.0

REFRIGERATION AND HVAC TECHNOLOGY COURSE DESCRIPTIONS

TF 101

TECHNICAL FUNDAMENTALS

32/16/2.5

During this first course students will be oriented in their career field. Students will cover basic tools use in the industry, they will cover basic safety procedures, and cover a ladder safety written exam. Students will learn the science behind the industry such as the laws of Thermodynamics and heat transfer, Boyle’s Law, Charles’ Law, and Dalton’s Law.

AC 106 **AIR CONDITIONING** **32/16/2.5**

PREREQUISITE: FR-103, FR-104

The refrigeration cycle as applied to air conditioning will be covered. Students will be able to define comfort and understand basic Psychrometric chart. The design and theory of operation of air conditioning systems including direct expansion evaporators, sensors and dehumidification will be explained. Practical work experience consisting of general servicing, component replacement, schematic drawing and troubleshooting of conventional and computer-controlled air conditioners will also be included.

AC 107 **AIR CONDITIONING LAB** **0/48/1.5**

PREREQUISITE: FR-103, FR-104

This is the lab portion of AC-106. Students will be required to perform the following competencies
Identify components on split air conditioning system, packaged air conditioning system, properly connect refrigeration gauges on air conditioning systems, check system pressures and temperatures and use and understand the purpose of a sling psychrometer and digital psychrometer.

GS 105 **GENERAL SHEET METAL** **16/32/2.0**

Upon the completion of this course, have students should have acquired the knowledge to fabricate and install both residential and commercial sheet metal ducting systems. Sheet metal fabrication will give the student the ability to produce the basic requirements needed in the sheet metal industry. The proper use of tools and safe handling of sheet metal will be emphasized.

HS 109 **HEATING SYSTEMS** **32/16/2.5**

PREREQUISITE: EL-102, EL-103

In this course students will be taught various types of heating systems in use today. Installation and repair techniques will be discussed and demonstrated with emphasis on gas-fired, electric systems. Students will learn about safety consideration when working with gas furnaces. Electric heating and hydronic heating will also be covered.

HS 110 **HEATING SYSTEMS LAB** **0/48/1.5**

PREREQUISITE: EL-102, EL-103

This course is the lab portion of HS-109. Students will be required to perform the following competencies:
Cut and thread black pipe, adjust gas valve pressure, perform a CO check, adjust a thermostat heat anticipator, and troubleshoot standing pilot and high efficiency furnaces.

RM 207 **REFRIGERANT MANAGEMENT I** **16/32/2.0**

PREREQUISITE: FR-102, FR-103

According to Section 608 of the Clean Air Act of 1990, the Environmental Protection Agency (EPA), has made it a requirement that persons servicing or disposing of air-conditioning and refrigeration equipment be certified. It also limits the sale of refrigerants to certified technicians. In this course, the student learns the regulations, and techniques and equipment necessary to pass the certification examination.

ACC 201 **COMMERCIAL AIR CONDITIONING** **32/16/2.5**

PREREQUISITE: AC-106, AC-107

This course will cover commercial air conditioning systems including high pressure, low pressure, and absorption chilled water systems. Students will also cover cooling towers, pumps, commercial package units, variable refrigerant flow, and variable air volume systems.

ASSOCIATE OF APPLIED SCIENCE DEGREES

ASSOCIATE OF APPLIED SCIENCE IN AEROSPACE AND DEFENSE TECHNOLOGY

9451 Diana Drive, El Paso, TX, 79924



CAREER OPPORTUNITIES IN AEROSPACE AND DEFENSE TECHNOLOGY

Aerospace engineering and operations technicians operate and maintain equipment used in developing, testing, producing, and sustaining new aircraft and spacecraft. Aerospace engineering and operations technicians usually work in manufacturing or industrial plants, laboratories, and offices. Many aerospace engineering and operations technicians work on projects related to national defense and therefore require security clearances. Aerospace engineering and operations technicians work mainly in national defense–related projects. Opportunities for employment with civilian space companies should increase as spaceflight shifts to the civilian market from government agencies. In addition, aerospace engineering and operations technicians will be needed due to rising demand to manufacture small satellites known as CubeSats or Small-Sats, which are used for many purposes, such as communications or gathering data. Employment of aerospace engineering and operations technicians is projected to grow 4 percent from 2018 to 2028, about as fast as the average for all occupations.

(Source: D.O.L. Occupational Outlook Handbook, Wednesday, November 13, 2019).

<https://www.bls.gov/ooh/architecture-and-engineering/electrical-and-electronics-engineering-technicians.htm>

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	1,180	10,500
Projected Employment 2026	1,355	11,800
Absolute Change 2016-2026	175	500
Percent Change 2016-2026	14.83%	4%
Average Hourly Wage 2016	\$32.19	\$32.22
Average Openings per year due to Replacement		Not available
Average Openings per year due to Growth	125	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

AAS DEGREE IN AEROSPACE AND DEFENSE TECHNOLOGY

COURSES 1-22

1668 CLOCK HOURS

70.0 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The graduate of this program will complete an academic associate degree in aerospace and defense technology, with the fundamental skills needed for a career entry and advancement in the Aerospace and Defense industry. Through classroom instruction, students will learn about electronic and aerospace technologies. In addition to the theoretical knowledge, the graduate will gain valuable hands-on experiences in diverse, technical areas.

CERTIFICATIONS: The experience gained from this program will prepare the student for the following professional certification examinations: The ISCET and ETA Associate Level Certified Electronics Technician (CET) certification, the Certified Fiber Optics Technician certification through FOA, and IPC certifications in Soldering (J-STD-001) and Wire Harnesses (WHMA-A-620C), OSHA 30-hour industrial certification, Communications Journeyman certification.

GRADUATION REQUIREMENT: Students graduating from this program are required to achieve at a minimum, (two) of the professional certifications and must meet general graduation requirements.

The graduate of this program will be qualified for entry-level employment into the Aerospace and Defense industry as Aerospace Products and Parts Manufacturing Technician, Test Technician, Repair Technician, Bench Technician, Quality Technician and Fiber-Optic Technician but are not limited to these positions as the industry continues to grow.

NOTE: WTC offers certification testing to its aerospace and defense technology graduates.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Must be able to see details at close range (within a few feet of the observer).
2. Must be able to match or detect differences between colors, including shades of color and brightness.
3. Must possess sufficient finger dexterity and steadiness to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble objects.
4. Must possess sufficient manual dexterity and steadiness to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
5. Must be able to perform physical activities that require considerable use of your arms and legs moving your whole body, such as climbing, lifting, balancing, walking, stopping, and handling of materials.
6. Must be able to operate computers and computer systems (including hardware and software) to program, setup functions, enter data, or process information.
7. Must possess the ability to utilize computers and perform basic computer functions with programs in the Microsoft Suite, Word, Outlook, and Excel.

NOTE: The sequential order of classes may differ from the program outline below.

ASSOCIATE OF APPLIED SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY

Available at 9451 Diana Drive Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES IN ELECTRONICS ENGINEERING TECHNOLOGY

Electronics Engineering Technicians held about 137,000 jobs in 2016. Electronics engineering technicians help engineers design and develop computers, communications equipment, medical monitoring devices, navigational equipment, and other electronic equipment. They often work in product evaluation and testing, and use measuring and diagnostic devices to adjust, test, and repair equipment. They are also involved in the manufacture and deployment of equipment for automation. Electronics engineering technicians work closely with electrical engineers. They work primarily in manufacturing settings, engineering services, the federal government, research-and-development laboratories, and the utilities industry. Employment of electronics engineering technicians is projected to grow 2 percent from 2016 to 2026, slower than the average for all occupations. Employment of these technicians is projected to decline in many manufacturing industries and in the federal government. 2016 to 2026. (Source: D.O.L. Occupational Outlook Handbook, 2018-2019). <https://www.bls.gov/ooh/architecture-and-engineering/electrical-and-electronics-engineering-technicians.htm>

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	15,108	137,000
Projected Employment 2026	16,803	139,800
Absolute Change 2016-2026	1,695	2,700
Percent Change 2016-2026	11.22%	2%
Average Hourly Wage 2016	\$31.51	\$30.93
Average Openings per year due to Replacement	510	Not available
Average Openings per year due to Growth	1,520	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

**AAS DEGREE IN ELECTRONICS ENGINEERING TECHNOLOGY
COURSES 1-20 1524 CLOCK HOURS
64.0 SEMESTER CREDIT HOURS**

EDUCATIONAL OBJECTIVES

The graduate of this program will gain valuable knowledge in DC/AC circuits, Solid State circuits, Digital circuits, PLCs, Industrial Electronics, Basic Robotic Operation, Pneumatics, Fiber and Soldering. The graduate will also gain valuable hands-on experience in a diverse set of technical areas.

CERTIFICATIONS: The experience gained from this program will prepare the student for the following professional certification examinations: The ISCET and ETA Associate Level Certified Electronics Technician (CET) certification, the Certified Fiber Optics Technician certification through FOA, and IPC certifications in Soldering (J-STD-001) and Wire Harnesses (WHMA-A-620C), OSHA 30-hour industrial certification, Industrial Journeyman certification.

GRADUATION REQUIREMENT: Students graduating from this program are required to achieve at a minimum, (two) of the professional certifications and must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Must be able to see details at close range (within a few feet of the observer).
2. Must be able to match or detect differences between colors, including shades of color and brightness.
3. Must possess sufficient finger dexterity and steadiness to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble objects.
4. Must possess sufficient manual dexterity and steadiness to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.
5. Must be able to perform physical activities that require considerable use of your arms and legs moving your whole body, such as climbing, lifting, balancing, walking, stopping, and handling of materials.
6. Must be able to operate computers and computer systems (including hardware and software) to program, setup functions, enter data, or process information.
7. Must possess the ability to utilize computers and perform basic computer functions with programs in the Microsoft Suite, Word, Outlook, and Excel.

ASSOCIATE OF APPLIED SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY

#	Course	Title	Hrs.	Lec/Lab/ Int	% On Campus/ Online	Semester Credit Hours
1	MATH 1314	College Algebra and Trigonometry	48	48/0	50/50	3.0
2	ITSC 1401	Computer Applications	96	32/64	80/20	4.0
3	PHYS 1401	College Physics	96	32/64	50/50	4.0
4	ITSC 1411	Computer Technology	96	32/64	80/20	4.0
5	ENGL 1301	English Composition	48	48/0	0/100	3.0
6	ETIC 1220	Industrial Safety and Quality	48	16/32	80/20	2.0
7	SCOM 1315	Fundamentals of Human Communication	48	48/0	50/50	3.0

===== **WESTERN TECHNICAL COLLEGE CATALOG** =====

*8	CETT 1401	Electronic Circuits I	96	32/64	80/20	4.0
*9	CETT 1402	Electronic Circuits II	96	32/64	80/20	4.0
*10	CETT 1425	Digital Fundamentals	96	32/64	80/20	4.0
11	CETT 1204	High Reliability Soldering	48	16/32	80/20	2.0
12	PSYC 2301	General Psychology	48	48/0	0/100	3.0
*13	ELMT2401	Programmable Logic Controllers	96	32/64	80/20	4.0
14	RBTC 2239	Robot Programming and Diagnostics	48	16/32	80/20	2.0
15	LOTT 2201	Introduction to Fiber Optics	48	16/32	80/20	2.0
16	CETT 2205	Cable and Wire Harness	48	16/32	80/20	2.0
*17	ELMT 2202	Advance Programmable Logic	48	16/32	80/20	2.0
*18	ELMT 2433	Industrial Electronics	96	32/64	80/20	4.0
19	ELMT 2205	Pneumatics	48	16/32	80/20	2.0
20	WTPD 2200	Professional Development	48	16/32	80/20	2.0
21	EECT 2288	EET Internship	180	0/0/180/180	100/0	4.0
Total Hours and Credits – AAS Degree in Electronics Engineering Technology			1524	592/752/ 180		64.0

NOTE: The sequential order of classes may differ from that included in the program outline. Courses with prerequisites are denoted in the course outline with an asterisk (*).

ELECTRONICS ENGINEERING TECHNOLOGY COURSE DESCRIPTIONS

ITSC 1401 **COMPUTER APPLICATIONS** **32/64/4.0**
 Introduces the basic features of Microsoft Office, Windows basics, and file management. Students will develop familiarity with Word, Excel, Access, PowerPoint, email, and Internet basics.

ITSC 1411 **COMPUTER TECHNOLOGY** **32/64/4.0**
 This course introduces basic computer hardware, operating software, and networks. It covers installing, upgrading, configuring, troubleshooting, and preventive maintenance of computers and networks with additional elements of soft skills and security.

ETIC 1220 **INDUSTRIAL SAFETY AND QUALITY** **16/32/2.0**
 This course covers identification of hazards, personal protective equipment, safe practices, and protection of personnel, property, and equipment in the industrial environment. Safety procedures, including OSHA regulations and hazardous materials handling, are also covered. Includes hands-on approach to the identification, use and care of tools and equipment used in industrial systems.

CETT 1401 **ELECTRONIC CIRCUITS I** **32/64/4.0**
 The course introduces the basic concepts and theory of electricity and magnetism with an emphasis on passive electrical elements such as resistors, capacitors, and inductors (RCL) and their applications in alternating current (AC) or direct current (DC) circuits. Students also learn how to build, test, and analyze simple RCL circuits in the laboratory, and use simulation software and test equipment such as power supply, multimeter, signal/function generator, and oscilloscope. Related mathematics and physics concepts are developed alongside these concepts of electrical engineering.

ELMT 2205

PNEUMATICS

16/32/2.0

This training course is designed to provide necessary skills in pneumatics fundamentals. The training curriculum includes an understanding of pneumatics circuits and applications. Upon completion of this course, the student will be able to define pneumatics, list the advantages and disadvantages of pneumatics, list the basic components of pneumatic system, and read pneumatic schematics. Students will be able to interpret pneumatic symbols, and troubleshoot pneumatic components

WTPD 2200

PROFESSIONAL DEVELOPMENT

16/32/2.0

The Professional Development course is designed to improve the ability of students to describe their accomplishments and sell their ideas in situations like professional networking, company meetings, response to proposals for services, and interviews. It teaches writing skills and workplace integration for new jobs. Students will learn to create career plans that require them to research career options and potential employers and prepare a developmental roadmap that will lead them to success within the chosen profession. In this course, students will spend time working on the skills needed to be successful in the workplace. Students will work on their interpersonal skills, to include soft skills and customer service skills. Students will learn how to prepare a functional resume and cover letter. Students will also work on their interview skills, and how to dress appropriately for an interview.

EECT 2288

EET INTERNSHIP

0/0/180/4.0

Students will be able to apply the knowledge and skills they have learned in previous courses to the workplace environment. Each student will be placed in an approved electronics repair, service, maintenance, or networking program to continue their training alongside experienced technicians.

While at the internship site and upon completion of this course, each student will have demonstrated entry-level competency of the Electronics Technician skills and demonstrate social and communication skills required performing the duties of a technician. This course is designed to prepare students for the job seeking process. Students will be required to demonstrate personal and job-related behavioral skills both orally and in written format. Resume' completion and a review of the proper completion of the employment application will be covered.

ASSOCIATE OF APPLIED SCIENCE IN INFORMATION SYSTEMS AND SECURITY

Available at 9451 Diana Drive Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES IN INFORMATION SYSTEMS AND SECURITY

Computer support specialists held about 853,300 jobs in 2016. They work in many different industries, including information technology (IT), education, finance, healthcare, and telecommunication. Employment of computer support specialists is projected to grow 11 percent from 2016 to 2026, faster than the average for all occupations. More support services will be needed as organizations upgrade their computer equipment and software. Computer support staff will be needed to respond to the installation and repair requirements of increasingly complex computer equipment and software. Most computer support specialists have full-time work schedules; however, many do not work typical 9-to-5 jobs. Because computer support is important for businesses, support specialists must be available 24 hours a day (Source: D.O.L. Occupational Outlook Handbook, 2018-2019 Edition).

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	56,367	835,300
Projected Employment 2026	66,644	923,800
Absolute Change 2016-2026	10,277	88,500
Percent Change 2016-2026	18.23%	11%
Average Hourly Wage 2016	\$43.91	\$32.46
Average Openings per year due to Replacement	475	Not available
Average Openings per year due to Growth	645	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

AAS DEGREE IN INFORMATION SYSTEMS AND SECURITY COURSES

1-20

1812 CLOCK HOURS

76.0 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The graduate of the Associate of Applied Science Degree in Information Systems and Security gains knowledge and experience in the following areas: Computer Hardware, Operating Systems, Local Area Networking, Wide Area Networking, Cabling, Router and Switch configurations, Microsoft Server and Client administration, Network Security, sales and service. Additional areas include Linux administration and an emerging technologies component that entails wireless applications and voice over IP, (VoIP). The skill set presented in this program will prepare the graduate for entry-level careers in PC service and repair, Network Support, Desktop support and Network Security administration.

CERTIFICATIONS: The experience gained from this program will prepare the student for the following professional certification examinations: CompTIA A+, CompTIA Net+, CompTIA Sec+, CompTIA Linux+, Cisco CCNA, Palo Alto PCCSA, Fiber Optics (FOA), Ec-Council CEH

GRADUATION REQUIREMENT: Students graduating from this program are required to achieve at a minimum, (two) of the professional certifications and must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. Must be able to apply critical thinking / problem solving skills.
2. Must be able to analyze a system's problem and apply principles of computing, networking, and security to identify solutions.
3. Must be able to design, implement and evaluate a computing-based solution and network infrastructure.
4. Must be able to implement cybersecurity solutions that comply with global practices.
5. Must be able to describe and explain fundamentals of networking, security, hardware, and software.
6. Must be customer service oriented and a team player.
7. Must be able to climb ladders and use cabling tools.
8. Must be able to work under different environmental conditions.

NOTE: The sequential order of the classes may differ from that included in the program outline below.

ASSOCIATE OF APPLIED SCIENCE IN INFORMATION SYSTEMS AND SECURITY

#	Course	Title	Hrs.	Lec/ Lab/ Total	%on Campus/ Online	Semester Credit Hours
1	MATH 1314	College Algebra and Trigonometry	48	48/0	50/50	3.0
2	CPMT 1405	IT Essentials: PC Hardware and Software	96	32/64	80/20	4.0
3	ENGL 1301	English Composition	48	48/0	0/100	3.0
4	CPMT 1445	IT Essentials II: Computer Systems Troubleshooting	96	32/64	80/20	4.0
5	ITNW 1458	Network+	96	32/64	80/20	4.0
6	PHYS 1401	College Physics	96	32/64	50/50	4.0
7	SCOM 1315	Fundamentals of Human Communication	48	48/0	50/50	3.0
8	ITSY 1400	Operating System Security	96	32/64	80/20	4.0
9	MSFT 1401	Microsoft Modern Desktop Windows 10	96	32/64	80/20	4.0
10	MSFT 1402	Microsoft Modern Desktop Server Management	96	32/64	80/20	4.0
11	LOTT 2201	Introduction to Fiber Optics	48	16/32	80/20	2.0
12	ITSC 1416	Linux Installation and Configuration	96	32/64	80/20	4.0
13	ITCC 1414	Cisco - Introduction to Networks	96	32/64	80/20	4.0
*14	ITCC 1444	Cisco - Switching, Routing and Wireless Essentials	96	32/64	80/20	4.0
*15	ITCC 2420	Cisco - Enterprise Networking, Security and Automation	96	32/64	80/20	4.0
16	PAFW 2415	Palo Alto Firewall	96	32/64	80/20	4.0
17	ITSY 2445	Network Defense and Countermeasures	96	32/64	80/20	4.0
18	PSYC 2301	General Psychology	48	48/0	0/100	3.0
*19	ITSY 2459	Security Assessment and Auditing	96	32/64	80/20	4.0
20	CPMT 2488	Professional Development	48	16/32	80/20	2.0
21	CPMT 2499	Internship	180	0/0/180	100/0	4.0
Total Hours and Credits – AAS Degree in Information Systems & Security			1812	672/960/180		76.0

NOTE: Courses with prerequisites are denoted in the course outline with an asterisk (*).

PAFW2415

PALO ALTO FIREWALL

32/64/4.0

This course covers the nature and scope of today's cybersecurity challenges. Explores the cybersecurity landscape, cyberthreats, malware and spamming, and Wi-Fi and advanced threats. Explores the basic operation of computer networks; common networking devices; routed and routing protocols; network types and topologies; DNS; physical, logical, and virtual addressing. Presents detailed information about next-generation cybersecurity solutions available from Palo Alto Networks. Upon completion of this course, the student will be able to demonstrate knowledge on cyber-threats and cyber-security, implement security models, and design best practices and principles to address security challenges.

ITSY 2445

NETWORK DEFENSE AND COUNTERMEASURES

32/64/4.0

This is a practical application and comprehensive course that includes the planning, design, and construction of defenses for a complex network that will sustain an attack, document events, and mitigate the effects of the attack.

Upon completion of this course, the student will be able to assemble network defense tools, differentiate between authorized and unauthorized activity on a network, respond to a breach in security through the use of countermeasures designed to minimize the impact of the breach on the network, and document network events. Students will be required to present an analysis of network breach and plan for remediation.

ITSY 2459

SECURITY ASSESSMENT AND AUDITING

32/64/4.0

Comprehensive experience for the security curriculum. Synthesizes technical material covered in prior courses to monitor, audit, analyze, and revise computer and network security systems that ensure appropriate levels of protection are in place to assure regulatory compliance. Upon completion of this course, the students will be able to appraise security plan to ensure appropriate level of protection, assess network security design, and audit network system based on security design. Students will be required to use relevant tools to assure security requirements, and review security policies and procedures on a regular basis.

CPMT 2488

PROFESSIONAL DEVELOPMENT

16/32/2.0

This course will be spent in the classroom working on the skills needed to be successful in the workplace. Students will work on their interpersonal skills, to include soft skills and customer service skills. Students will learn how to prepare a functional resume and cover letter. Students will also work on their interview skills, and how to dress appropriately for an interview.

CPMT 2499

INTERNSHIP

0/0/180/4.0

The internship will allow the student to experience situations that occur during the daily operation of an Information Technology Department. be able to apply the knowledge and skills he/she has learned in the previous courses to the workplace environment. The student entering the internship program must have satisfactorily completed all courses of the Information Technology program before being placed in a participating site. Upon completion of this course, be able to: Describe standard operating procedures for the IT industry and add work experience of his/her internship.

ASSOCIATE OF APPLIED SCIENCE IN PHYSICAL THERAPIST ASSISTANT

Available at 9451 Diana Drive Campus



Individuals portrayed in photos are actual students, graduates, or employees of WTC.

CAREER OPPORTUNITIES FOR PHYSICAL THERAPIST ASSISTANTS

Physical therapist assistants held about 88,300 jobs in 2016, much faster than the average for all occupations. Employment of physical therapist assistants is projected to grow 31 percent from 2016 to 2026, much faster than the average for all occupations. Demand for physical therapy services is expected to increase in response to the health needs of an aging population, particularly the large baby-boom generation. Physical therapist assistants sometimes called PTAs work under the direction and supervision of physical therapists. They help patients who are recovering from injuries and illnesses regain movement and manage pain. Physical therapist assistants are involved in the direct care of patients (Source: D.O.L. Occupational Outlook Handbook, 2017-2018 Edition).

WTC has developed its application process for the PTA program in a manner that is intended to be non-discriminatory and objective. The criteria noted in the point summary sheet from which the applicants are selected, is irrelevant of race, color, national origin, sex, disability, age, veteran status, religion, or any other protected status. In order to ensure optimal objectivity with the interview process, the following measures are taken: all interviewees will be interviewed utilizing the same set of predetermined questions, a panel consisting of three (3) members, (including a practicing clinician not affiliated with WTC), along with a grading system that is based on the “Generic Abilities” developed by the Physical Therapy program, University of Wisconsin-Madison, May et al, Journal of Physical Therapy Education 9-1, Spring 1995.

Admission to the PTA program is a selective process. It is a competitive process, and all applicants will be ranked based on a point system. Therefore, application to the program does not guarantee admission into the program. Enrollment of PTA students is limited to a maximum of 24 students each year. The “point system” will take into consideration: Educational Credentials, Grade Point Average, Wonderlic Scholastic Exam, Observation/Experience Hours (minimum of two clinical settings), Onsite Essay, Letters of Recommendation, and Panel Interview.

Labor Market Information (2012 thru 2022 Projections)	Texas	National
Labor Market Information Employment 2016	16,113	71,400
Projected Employment 2026	21,138	100,700
Absolute Change 2016-2026	5,025	29,300
Percent Change 2016-2026	31.20%	41%
Average Hourly Wage 2016	\$44.68	\$47.35
Average Openings per year due to Replacement		Not available
Average Openings per year due to Growth	1,248	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

AAS DEGREE IN PHYSICAL THERAPIST ASSISTANT PROGRAM

COURSES 1-20

1745 CLOCK HOURS

74 SEMESTER CREDIT HOURS (ACCSC, TWC & THECB)

EDUCATIONAL OBJECTIVES

The licensed Physical Therapist Assistant is a health care professional who works under the supervision of a licensed Physical Therapist. The Physical Therapist Assistant will implement treatment based on the established plan of care and treat a variety of patient populations from pediatrics to geriatrics. The treatment techniques that will be taught include: taking vital signs, goniometry, manual muscle testing, activities of daily living, functional training, use of assistive/adaptive devices, balance and gait training, developmental activities, electric current, hydrotherapy, therapeutic use of heat and cold, patient and family education, therapeutic exercise, therapeutic massage, traction, ultrasound, universal precautions and wound care. Knowledge and other skills gained include written/oral communication, documentation, legal guidelines, and ethical decision-making. Proficiency in communication and interaction with the patient, family members and other healthcare team members will be a vital component of the program.

Upon satisfactory completion of the training of an accredited program of physical therapist assistant education, students may be qualified to take the PTA National Physical Therapy Exam (NPTE) and apply for state licensure. Licensure requirements vary by state. Once license is granted, the individual will assume the role of an entry-level licensed physical therapist assistant providing safe and effective clinical treatment in such working environments as home health care, clinics, hospitals, and nursing homes. Currently in Texas, every two years, 20 hours of continuing education (mandatory two-hour credit ethics course) is required to renew state license.

GRADUATION REQUIREMENT: Students graduating from this program must meet general graduation requirements.

EXPECTED STUDENT OUTCOMES

WTC College's expected student outcomes for the physical therapist assistant graduate will be as follows. The graduate will:

1. Be prepared to practice in a variety of healthcare settings.
2. Be able to practice within the laws and regulations of the state of Texas.
3. Be eligible to take the state licensure exam.
4. Be able to apply knowledge and skills to assist in treatment of patients under the direct supervision of a physical therapist.
5. Be prepared to communicate (oral, written, and non-verbal communication skills) to patients, colleagues, and other members of the healthcare community.
6. Adhere to professional, legal, and ethical standards as set forth by the Texas Physical Therapy Practice

Act.

7. Be able to educate others (patients, caregivers, staff, students, and healthcare professionals) using effective teaching methods.
8. Be able to participate in activities that address quality of service
9. Be able to practice in a safe manner to minimize risk to patients, self, and others.
10. Be able to deliver patient care that reflects respect for individual and cultural differences.
11. Be able to demonstrate a commitment to professional and personal growth and advocate the profession through involvement.
12. Be able to document client treatment in a timely and effective manner.
13. Be able to perform measurement and assessment techniques within the knowledge and limits of practice to assist the supervising physical therapists in monitoring and modifying the plan of care.
14. Be able to communicate with the supervising physical therapist in a timely manner to report patient progress or concerns.
15. Be able to participate in discharge planning and follow up care.

PROGRAMMATIC ACCREDITATION

The Physical Therapist Assistant Program at WTC is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) of the American Physical Therapy Association 1111 North Fairfax Street, Alexandria, Virginia 22314 Telephone:(703)706-3245; email: accreditation@apta.org; website: www.capteonline.org

MISSION AND PHILOSOPHY

Mission Statement of the Physical Therapist Assistant Program

The WTC Physical Therapist Assistant program provides quality academic and clinical training in a caring professional manner and in a modern facility to optimize student learning and experience. The WTC experience, in conjunction with our community partners, will optimize the student's effectiveness in gaining state licensure and successfully pursuing an ethical and productive career as a physical therapist assistant.

Philosophy of the Physical Therapist Assistant Program

- We believe that the goal of education is to guide the student in a direction of productive work and livelihood in today's dynamic medical society.
- We believe that the role of the instructor is to provide the student a positive environment that is rich in experience, knowledge, and critical thinking to allow for professional and personal growth.
- We believe that the student should be willing to immerse him/herself into such an environment and engross the full potential of what our school and community have to offer.
- We believe that family and community members are key resources in the success of our program, profession, and the student.
- We believe that consuming and utilizing apt knowledge is strategic to the life-long success of the student.
- WTC feels that the mission and philosophy of the PTA Program are consistent with that of the institution.
- We believe the PTA sequential curriculum design will allow students to build on preceding material based on skills acquired from prerequisite courses and increasing the level of knowledge as well as the level of performance of the SPTA to ultimately culminate into an entry-level PTA that will behave and make decisions in a professional manner.
- We believe that WTC's PTA Program will provide students the educational guidance to become knowledgeable through theory, competent through the application of skills with hands-on training, to produce an adaptable professional graduate with critical thinking skills.

CLINICAL AFFILIATIONS

Students will be placed in clinical settings for a total three different affiliations consisting of a minimum of 520

hours throughout the course of the program. It is our intention to attempt to place students locally when possible; however, clinic sites may require the student to travel locally and/or out of town. All expenses, including travel, lodging, fees, etc., are the responsibility of the student.

Although the student's input is considered for placement for clinical sites, requests on behalf of the student are not guaranteed. Decisions are also based on student need (clinically), site availability and ultimately is at the discretion of the PTA faculty.

LICENSURE EXAMINATION

Students successfully graduating from the PTA Program will be awarded an Associate of Applied Science (AAS degree) in Physical Therapist Assistant and may be eligible to take the PTA National Physical Therapy Exam (NPTE) and apply for state licensure. Licensure requirements vary by state. Students must pass the examination and meet the individual state requirements to receive their license to practice as a physical therapist assistant.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

PTA students are required to perform job duties specific to the profession. Specifically, a PTA student must possess motor and visual skills that enable them to meet program objectives. The following is a list of skills necessary for all PTA students.

1. Sufficient hearing ability is necessary to respond safely and appropriately during patient treatment, for communication with other healthcare workers, and for patient assessment.
2. Students must have proficient communication in English both verbal and written, to allow for effective communication with patients, co-workers, and other healthcare workers. Also, the ability to listen, understand and communicate ideas presented through spoken words and sentences.
3. Students must have sufficient visual acuity for the reading and documentation of patient treatment, reading the physical therapist plan of care, and for the assessment of patients using a variety of measuring devices.
4. Students must be physically able to transfer patients safely from a variety of surfaces, i.e.: wheelchairs, mats, beds, etc., and to lift equipment needed for patient care. Students must also be able to tolerate standing for extended period without a break.
5. Students must have sufficient manual dexterity. This is needed to allow the student to perform fine motor tasks such as palpation, measurements, and demonstration of patient activities.
6. Students must be able to complete all written and practical exams and functional job tasks within the required time limits in the classroom as well as clinics.
7. Students must demonstrate emotional health to assure good judgements and the critical thinking skills necessary for safe and effective patient care and to maintain a professional demeanor.

NOTE: Program courses for the PTA curriculum are designed in a sequential manner. Each course of the curriculum is ordered such that the subsequent material is based on skills acquired from prerequisite courses. Exceptions to this include courses denoted with an asterisk (*). These courses are offered in a concurrent manner with a maximum of two courses at a time being concurrent. Course materials from each course are building blocks of skill and knowledge that cumulatively lead to an entry-level physical therapist assistant competency. Students are required to achieve competency in each course of the PTA program before they can progress to the next course. Proficiency of treatment skills must be demonstrated by the student in the laboratory to receive a passing grade. These measures ensure preparedness for clinical affiliations and patient treatment. Program/Class times are typically 8am to 3pm and vary.

ASSOCIATE OF APPLIED SCIENCE IN PHYSICAL THERAPIST ASSISTANT

#	Course	Title	Hours	Lec/Lab/ Clinical Affiliation	% on Campus/ Online	Semester Credit Hours
1*	MATH 1314	College Algebra and Trigonometry	48	48/0	50/50	3.0
2*	HITT 1305	Medical Terminology I	36	36/0	100/0	2.0
3*	PHYS 1401	College Physics	96	32/64	50/50	4.0
4*	PTHA 1409	Introduction to Physical Therapy	96	52/44	100/0	4.0
5	BIOL 2401	Anatomy & Physiology I	96	52/44	100/0	4.0
6*	ENGL 1301	Composition	48	48/0	0/100	3.0
7*	BIOL 2102	Anatomy & Physiology II	52	0/52	100/0	1.5
8	PTHA 1513	Functional Anatomy	109	40/69	100/0	4.5
9*	SPCH 1315	Public Speaking	48	48/0	50/50	3.0
10*	PTHA 1321	Pathophysiology	64	64/0	100/0	4.0
11*	PSYC 2301	General Psychology	48	48/0	0/100	3.0
12*	PTHA 1531	Physical Agents	104	60/44	100/0	5.0
13	PTHA 2509	Therapeutic Exercise	100	50/50	100/0	4.5
14	PTHA 1261	Clinical PTA I	140	25/0/115	100/0	4.0
15	PTHA 2305	Neurology	56	56/0	100/0	3.5
16	PTHA 2431	Management of Neurologic Disorders	80	50/30	100/0	4.0
17	PTHA 1361	Clinical PTA II	140	20/0/120	100/0	3.5
18	PTHA 2435	Rehabilitation Techniques	96	58/38	100/0	4.5
19	PTHA 2339	Professional Issues	48	48/0	100/0	3.0
20	PTHA 1561	Clinical PTA III	240	25/0/215	100/0	6.0
Total Hours and Credits – AAS Degree in Physical Therapist Assistant			1745	860/435/450		74.0

PHYSICAL THERAPIST ASSISTANT COURSE DESCRIPTIONS

HITT 1305 MEDICAL TERMINOLOGY I 36/0/2.0

Students will learn the study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures.

Upon completion of this course, students will be able to identify and pronounce medical terms, demonstrate correct spelling and usage of medical terms for documentation, and use medical terms in proper context. Students will build and analyze medical terms; Use medical references as resource tools.

PTHA 1409 INTRODUCTION TO PHYSICAL THERAPY 52/44/4.0

Students will learn the history and role of a Physical Therapist Assistant in physical therapy. Introduction to interaction between the healthcare provider and the patient, the use of assistive devices and methods of teaching to a patient, proper draping and positioning, proper body mechanics, transfers, and documentation. Students will be instructed on monitoring vital signs, correct therapeutic techniques, and communication. Clinical skills are assessed through practical examination.

Upon completion of this course, students will be able to define physical therapy and its role in practical application and delineate differences between a Physical Therapist and a Physical Therapist Assistant. Students will identify the rules and regulations of the Physical Therapist Assistant's scope of practice and identify assistive devices utilized in physical therapy and be able to adjust equipment, including devices for ambulation, wheelchair, and special equipment. They will demonstrate proper body positioning in varying scenarios, demonstrate appropriate patient interaction through proper communication (verbal and non-verbal) taking into consideration cultural and ethnic differences. Students will identify and demonstrate all transfers using proper body mechanics, proper medical terminology in documentation and recognize the importance and legal issues of documentation. Students will demonstrate hands-on training of applied clinical skills in a laboratory settings: vital signs, transfers, body mechanics, draping, positioning, and use/adjustment of assistive devices, and they will instruct patients and/or caregivers on safe and proper use of equipment. Students will complete professional conduct self- assessment and review PTA Standards of Ethical Conduct and recognize individual and cultural differences and respond appropriately in all aspects of physical therapy services.

BIOL 2401 **ANATOMY & PHYSIOLOGY I** **52/44/4.0**

Students will develop a critical understanding of anatomical terminology, anatomical structure, and function of the muscular, endocrine, cardiovascular, immune & lymphatic, digestive, respiratory, urinary, nervous, integumentary, reproduction and development systems.

Upon completion of this course, students will be able to identify and describe the anatomical terms, directions, planes, axis and the cavities of the human body, describe basic organization of the human body and its structural levels; Describe the atomic, molecular and cellular structure of human organs. Students will identify the organs of each system, define function, and describe their locations and relationship of its parts and describe human body homeostasis and normal lab values.

BIOL 2102 **ANATOMY & PHYSIOLOGY II** **0/52/1.5**

Students will develop and apply skills in identification and observation as related to the human body and physiology on a cellular, molecular, organ and systems level.

Upon completion of this course, students will be able to describe the architecture of skeletal muscle, demonstrate palpation of bony landmarks in lab for upper and lower extremities, palpate skeletal muscle during relaxation and active contraction. Students will be able to identify musculature of the upper extremity and trunk: origin, insertion, action, and innervations, and identify and label the structures of the heart and cardiovascular system.

Students will be required to identify and label the layers of the skin and function of the glands, perform sensory testing with lab partners, identify and describe musculature of the lower extremities: origin, insertion, action and innervations and label the lymphatic structures of the body. Lastly, students will label the structures of the lymph nodes and identify and label the respiratory structures; Record RR and HR as well as calculate MHR and THR in laboratory setting.

PTHA 1513 **FUNCTIONAL ANATOMY** **40/69/4.5**

Students will learn the muscle origins, insertions, actions, and nerve innervations of the human body. This course teaches manual muscle testing, goniometric measurement, kinesiology, biomechanics, gait analysis and basic impairments as it pertains to physical therapy and clinical application.

Upon completion of this course, students will be able to perform goniometric measurement and identify normal/abnormal range of motion of articulations and explain the basic principles of physics during movement of the body. They will analyze biomechanics of the body about axes and planes, compare isometric, isotonic, isokinetic,

eccentric, and concentric muscle contractions. Students will be required to demonstrate proper manual muscle testing and apply an appropriate grade, identify gait patterns and courses of the gait cycle, and differentiate between normal and abnormal patterns. Also, students will be required to identify joint structure and function as it relates to normal and abnormal biomechanics and subsequent treatment, plus identify and assess joint range of motion (active/active assistive/passive/resisted) and accessory motion as it applies to normal and abnormal function. They must demonstrate applied skills through laboratory activities and practical examinations.

PTHA 1321 **PATHOPHYSIOLOGY** **64/0/4.0**
Students will learn about the pathogenesis, prognosis and therapeutic management of diseases/conditions commonly encountered in physical therapy.

Upon completion of this course, students will be able to identify and explain the pathogenesis of selected diseases relevant to physical therapy intervention and determine aspects of pathophysiology that affect physical therapy treatment. Students must analyze and describe the current response to acute physiological change in patients' conditions; obtain and assess pertinent pharmacological information and its impact on patient care; identify orthopedic impairments of the upper and lower extremities and identify orthopedic impairments of the spine and pelvis.

PTHA 1531 **PHYSICAL AGENTS** **60/44/5.0**
Students will learn biophysical principles and application of therapeutic physical agents with specific emphasis on indications, contraindications, medical efficacy, and physiological effects. The students will also learn theory and methods of wound care and tissue healing. The theory of the pain cycle and appropriate intervention will be reviewed. Upon completion of this course, students will be able to describe the pain theory, neurophysiology and behavioral responses to pain and pain management. Demonstrate appropriate draping and positioning of a patient for the application of modalities. Identify the indications, contraindications, and precautions for all therapeutic modalities, including massage. Demonstrate appropriate and safe application of physical agents. Discuss biophysical principles as they relate to the application of physical agents. Demonstrate proper techniques and identify proper indications of therapeutic massage. Demonstrate universal precautions with application of all modalities, wound care, and massage. Identify the stages of tissue healing and demonstrate proper documentation of wound care. Complete professional conduct self- assessment.

PTHA 2509 **THERAPEUTIC EXERCISE** **50/50/4.5**
Students will learn concepts, principles and application of techniques related to therapeutic exercise and functional training.

Upon completion of this course, students will be able to identify and utilize the theory, principles, and techniques of therapeutic exercise; identify and utilize therapeutic exercise for diagnoses. Students will be able to identify and utilize therapeutic exercise for various patient populations and discuss the rationale for the application and modification of therapeutic exercise, identify signs, symptoms, and contraindications to exercises or activity. They will compare the difference between aerobic and anaerobic exercises and implementation of each through therapeutic exercise and demonstrate progression of patients following given protocols for specific injury/post-surgical rehabilitation including orthopedic and neurologic impairments. Students will design and implement an appropriate aquatic therapy exercise and demonstrate accurate documentation of therapeutic exercise.

PTHA 1261 **CLINICAL PTA I** **25/0/115/4.0**
Students will be supervised by a licensed clinical instructor (a Physical Therapist or Physical Therapist Assistant) and will receive hands-on clinical training to demonstrate proficient patient care, critical problem solving and thinking, use of modalities, developing and instructing home exercise programs, documenting and developing and

administering a presentation on an appropriate topic. A minimum of one clinical affiliation must be completed in an acute care setting. The student must have a current CPR card, malpractice insurance, health insurance, updated immunization record, and criminal background check to begin their clinical affiliation.

NOTE: Some affiliations may require additional items such as drug screen or influenza immunization.

Upon completion of this course, students will be able to demonstrate all available skills at their clinical affiliation site. The student is not yet expected to neither operate at full autonomy nor perform skills at a pace of an entry-level PTA for each individual skill according to PTA MACS other than those noted as all objectives being required to be met. Students are required to complete a minimum of 140 hours working under a clinical instructor and present a topic of the student's or clinical instructor's choice at the clinical site of the affiliation, and obtain pertinent patient information and utilize it to appropriately treat and document the treatment in the patient's official record. PTA Manual for the Assessment of Clinical Skills (MACS) (a method for evaluating clinical performance and a tool to promote teaching and learning) will be completed by the student and clinical instructor during the clinical affiliation. Master "professional behaviors" and "patient history and chart review" skills from the PTA MACS by receiving "Entry level or Excellent" grade from Clinical Instructor (minimum requirement for successful completion of PTHA 2564). The PTA MACS accounts for 60% of the total grade.

PTHA 2305

NEUROLOGY

56/0/3.5

Students will learn the neuroanatomy and neurophysiology of the human body as it relates to commonly encountered neurological conditions. Upon completion of this course, the students will be able to identify and explain the components of neuroanatomy as related to physical therapy, describe the pathogenesis, prognosis, and management of neurological disorders commonly treated in physical therapy, and compare motor and sensory pathways of the nervous system as they pertain to physical therapy impairments and treatment.

PTHA 2431

MANAGEMENT OF NEUROLOGICAL DISORDERS

50/30/4.0

Utilize knowledge of neuroanatomy and neurophysiology to learn new skills/techniques for comprehensive rehabilitation of selected neurological disorders. Upon completion of this course, be able to distinguish and critically examine the concepts and principles of comprehensive management of neurological disorders, develop, implement, and revise comprehensive treatment approaches for neurological disorders. Students will be able to appropriately implement neuromuscular rehabilitation techniques in accordance with a prescribed physical therapy plan of care.

PTHA 1361

CLINICAL PTA II

20/0/120/3.5

Students will be supervised by a licensed clinical instructor (a Physical Therapist or Physical Therapist Assistant) and will receive hands-on clinical training to demonstrate proficient patient care, critical problem solving and thinking, use of modalities, developing and instructing home exercise programs, documenting and developing and administering a presentation on an appropriate topic. The area of practice will vary from that of the first clinical affiliation. A minimum of one clinical affiliation must be completed in an acute care setting. The student must have a current CPR card, malpractice insurance, health insurance and an updated immunization record, and criminal background check to begin their clinical affiliation. Some affiliations may require additional items such as drug screen or influenza immunization.

Upon completion of this course, students will be able to demonstrate all the available skills at their clinical affiliation site at entry-level for each individual skill according to PTA MACS. The student is expected to operate at full autonomy but not a pace of entry-level PTA, complete a minimum of 135 hours working under a clinical instructor, present a topic of the student's or clinical instructor's choice at the clinical site of the affiliation, and obtain pertinent patient information and utilize it to appropriately treat and document the treatment in the patient's official record. PTA MACS (a method for evaluating clinical performance and a tool to promote teaching and learning) will be completed by the student and clinical instructor during the clinical affiliation. Master "professional behaviors," skills 1-12 from the PTA MACS, and "patient history and chart review" skills from the PTA MACS by receiving "Entry

BACHELOR DEGREES

BACHELOR IN BUSINESS ADMINISTRATION

Available at 9451 Diana Drive Campus & 9624 Plaza Circle Campus

This program is offered 100% online at the Branch Campus (Diana Drive) and Hybrid at the Main Campus (Plaza Circle)



Individuals pictured above are actors, students and/or employees of WTC

CAREER OPPORTUNITIES IN BUSINESS ADMINISTRATION

The Bachelor in Business Administration will help students learn to cultivate a variety of skills and assets needed by businesses. Supervisors directly oversee and coordinate the activities of clerical and administrative support workers. Supervisors of office and administrative support workers held about 119,490 jobs in 2010. There was above average growth rate in colleges and universities, office administrative services, and an average growth rate in business support services. Employment growth is projected to increase by 53.90% in Texas and 14.30% nationally.

Labor Market Information (2012 thru 2022 Projections)	Texas	National
Labor Market Information Employment 2016	115,420	1'424,450
Projected Employment 2026	139,670	1'589,600
Absolute Change 2016-2026	24,250	171,500
Percent Change 2016-2026	21%	12.10%
Average Hourly Wage 2016	\$26.96	\$27.01
Average Openings per year due to Replacement	2,745	Not available
Average Openings per year due to Growth	2,425	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

CERTIFICATIONS: Students in the Bachelor in Business Administration degree program will have the opportunity to test for the following certifications: Word, Excel, Payroll, Bookkeeping, QuickBooks, Lean Six Sigma (Yellow), Lean Six Sigma (Green) [depending on years of paid work experience], and Project Management.

Students can earn digital badges in selective courses. Badges will create a learning pathway throughout their program. A digital badge is a representation of a skill a student has learned. Badges verify their skills and achievements that may be industry-specific or internally prepared badges and can be displayed digitally on their resumes. WTC offers 15 digital badges: Principles of Management, Word, Excel, Payroll, Principles of Marketing, Human Resource Management, Business Ethics, Principles of Lean Six Sigma, Project Management, Advanced Project Management, Applied Lean Six Sigma, Non-Profit Organization Management, Tax Accounting, E-Business, and Advertising.

GRADUATION REQUIREMENT: Students graduating from this program must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. The ability to understand course materials and maintain a certain grade/performance level that meets the set academic requirements.
2. The ability to maintain a professional demeanor always and interact professionally with fellow students, internship site employees, clientele, administration, and faculty.
3. The ability to listen, understand, and communicate ideas presented verbally and written.
4. The ability to utilize computers and perform basic computer functions with programs such as Word, Outlook, and Excel.

BACHELOR IN BUSINESS ADMINISTRATION

COURSES 1-40

2436 CLOCK HOURS

132.5 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The Bachelor in Business Administration program will help students learn to cultivate a variety of skills and assets needed by businesses. The program will provide students with the knowledge and technical skills needed for positions in business and may also provide students with opportunities for career advancement. The program provides training in a variety of courses to include: Accounting, Principles of Lean Six Sigma, Project Management, Advertising, among others. It will also provide hands-on experience in Microsoft Word and Excel. This program provides general education, technical, and specialized courses that will prepare the graduate for careers in private, public, and government sectors. Students may find employment as financial analyst, business managers, general manager, public relations specialist, retail manager, operation coordinator, logistics clerk, accounting clerk, project coordinator, project manager, advertising rep, marketing manager, sales manager HR assistant among other business positions

NOTE: The sequential order of the classes may differ from that included in the program outline

Bachelor in Business Administration

#	Course Number	Course Title	Hrs.	Theory/ Lab	% on Campus/ Online	Semester Credit Hours
1	BMGT 1327	Principles of Management	48	48/0	50/50	3.0
2	ITSC 1209	MS Office Applications I	48	32/16	50/50	2.5
3	ENGL 1301	Composition	48	48/0	0/100	3.0
4	ITSC 1221	MS Office Applications II	48	32/16	50/50	2.5
5	ACNT 1525	Accounting Principles I	96	48/48	50/50	4.5
*6	ACNT 1526	Accounting Principles II	96	48/48	50/50	4.5
7	BMGT 1341	Business Ethics	48	48/0	50/50	3.0
8	HRPO 2301	Human Resource Management	48	48/0	50/50	3.0
9	MRKG 1311	Principles of Marketing	48	48/0	50/50	3.0
10	MATH 1312	Algebra	48	48/0	50/50	3.0
11	SCOM 1315	Fundamentals of Human Communication	48	48/0	50/50	3.0
12	ECON 2301	Principles of Macroeconomics	48	48/0	50/50	3.0
*13	ACNT 1213	Computerized Accounting (QuickBooks)	96	48/48	50/50	4.5
*14	ACNT 1229	Payroll Accounting	48	38/10	50/50	2.5
15	GEOL 1301	Geology	48	48/0	0/100	3.0
16	BUSG 2317	Business Law	48	48/0	50/50	3.0
*17	ECON 2302	Principles of Microeconomics	48	48/0	50/50	3.0
*18	MATH 1324	Mathematics for Business & Social Sciences	48	48/0	50/50	3.0
19	PSYC 2301	General Psychology	48	48/0	0/100	3.0
20	BUSG 2311	Entrepreneurship and Innovation	96	60/36	50/50	5.0
21	BMGT 3321	Production/ Operation Management	96	48/48	50/50	4.5
22	IBUS 3300	Logistics Management	48	48/0	50/50	3.0
23	HIST 1301	United States History I	48	48/0	0/100	3.0
*24	HIST 1302	United States History II	48	48/0	0/100	3.0

===== **WESTERN TECHNICAL COLLEGE CATALOG** =====

25	LSSY 3310	Principles of Lean Six Sigma	48	48/0	50/50	3.0
*26	LSSG 3311	Applied Lean Six Sigma	96	48/48	50/50	4.5
27	MATH 1342	Statistics	48	48/0	50/50	3.0
28	FINA 3315	Business Finance	48	48/0	50/50	3.0
29	BMGT 3301	Project Management	48	48/0	50/50	3.0
30	ENGL 1302	Research Analysis	48	48/0	0/100	3.0
31	BMGT 4333	Non-Profit Organization Management	48	48/0	50/50	3.0
*32	BMGT 4302	HR Management Development	48	48/0	50/50	3.0
33	BMGT 4020	E-Business	48	48/0	50/50	3.0
*34	BMGT 4301	Advanced Project Management	96	48/48	50/50	4.5
35	PHIL 1301	Introduction to Philosophy	48	48/0	0/100	3.0
36	BMGT 4325	International Business Management	48	48/0	50/50	3.0
*37	ACNT 4312	Tax Accounting	48	48/0	50/50	3.0
*38	ADVT 4336	Advertising Creative Strategy & Execution	48	48/0	50/50	3.0
39	BMGT 4300	Capstone	48	48/0	50/50	3.0
40	BMGT 4388	Professional Development Business Administration & Management Internship	228	16/32/180	100/0	6.0
Total Hours and Credits – Bachelor in Business Administration			2436	1856/400/180		132.5

NOTE: Courses with prerequisites are denoted in the course outline with an asterisk (*).

BMGT 1327 Principles of Management 48/0/3.0

This course explores the rich concepts and applications of management. Students will learn to apply management concepts about decision making, foundations of planning, managing change, effective communication, operations management, and team building.

Upon completion of this course, students will be able to identify management, organizational structure, and operations management, assess how globalization and how it affects organizations, apply the foundation of decision making, understand the foundations of human behavior and motivating and rewarding employees, and demonstrate how to manage communication and information

Prerequisites: None

ITSC 1209 MS Office Applications I 32/16/2.5

Students will be introduced to Microsoft Word. The course will concentrate on hands-on experience with the features of Microsoft Office. Students will perform format text, compress files, create new documents, insert, and format graphics, create tables, insert footnotes, create columns, create charts, and insert hyperlinks.

Upon completion of this course, students will be able to create and manage documents. format text, paragraphs, and sections, create tables and lists and format graphic elements, and create and manage references

Prerequisites: None

ITSC 1221

MS Office Applications II

32/16/2.5

Students will be introduced to Microsoft Excel. The course will concentrate on hands-on experience with the features of Microsoft Office.

Upon completion of this course, students will be able to create and manage worksheets and workbooks, manage data cells and ranges, create tables, perform operations with formulas & functions and create charts and objects and evaluate complex formulas.

Prerequisites: None

ACNT 1525

Accounting Principles I

48/48/4.5

This course will develop an understanding of accounting principles relating to business operations. The course will concentrate on generally accepted principles, the accounting process, assets and liabilities, journalizing, and posting adjusting entries. Students will demonstrate the ability to record transactions and adjusting entries, post to the ledger, close periods, and see the effects in the ledger accounts.

Upon completion of this course, students will be able to prepare and examine income statements, statement of retained earnings, and balance sheets. Students will understand assets, liabilities, owner's equity, and the importance of financial statements; use revenue and expense accounts, list the rules of debit and credit, execute the accounting cycle, and perform basic payroll functions.

Prerequisites: None

ACNT 1526

Accounting Principles II

48/48/4.5

Students will learn to apply concepts related to Accounts Receivable, long-term liabilities, fixed assets, inventory valuation, partnerships, corporations, Cash Flow Statement, and responsibility accounting. Students will be able to launch Connect for practice purposes and lab.

Upon completion of this course, students will be able to journalize transactions for Accounts Receivable, long-term notes payable and mortgage payable, apply commonly used depreciation methods, describe and illustrate how debt and equity securities are reported, explain different inventory valuations such as FIFO, LIFO, Average cost method, explain how financial statements are used to analyze a business and perform a horizontal and vertical analysis of financial statements and execute a Statement of Cash Flow utilizing Direct and Indirect methods

Prerequisites: ACNT 1525 Accounting Principles I

BMGT 1341

Business Ethics

48/0/3.0

This course will focus on business decision making, ethics, economics and law, ethical organizational decision making, market ethics, whistleblowing, trade secrets and conflict of interest, discrimination and affirmative action, marketing, advertising, product safety, employment rights and ethics in finance.

Upon completion of this course, students will be able to identify ethical management and ethics in organizations and describe the two realms that law and ethics govern; the rules of business ethics and describe ethical requirement specific to professionals. Students will be able to assess employee rights and describe the justification of whistleblowing and the meaning of loyalty, and assess how trade secrets, conflict of interest, the challenges of

understand the concepts for computerized accounting for payables and record depreciation and enter the adjusting entries required for accrual-basis accounting. Students will be required to set up a company using the EasyStep Interview and QuickBooks Setup.

Prerequisites: ACNT 1525 Accounting Principles I

ACNT 1229 **Payroll Accounting** **38/10/2.5**

Students will be introduced to payroll laws and regulations, determine gross earnings, payroll deductions, federal and state payroll taxes, and tax reports. Upon completion of this course, be able to define the common payroll periods: weekly, biweekly semimonthly, and monthly and the difference between temporary and contract workers, compute gross earning based on regular and overtime hours worked, identify and perform several common “pretax” items that lessen the amount of income tax for employees, and compute various payroll taxes and withholding to arrive at “net-pay”. Lastly, students will be able to calculate social security and Medicare taxes on employee earnings

Prerequisites: ACNT 1525 Accounting Principles I

BUSG 2317 **Business Law** **48/0/3.0**

This course provides an overview of business law and introduces fundamental principles encountered in the business environment.

Upon completion of this course, students will be able to explain basic constitutional law and key terms and concepts of the formation of sales and lease contracts, identify credit, mortgages, and debtor’s rights and explain employment, worker protection, and immigration law. Lastly, students will be able to identify and describe the different types of business entities such as: sole proprietorship, partnerships, corporations etc.

Prerequisites: None

ECON 2302 **Principles of Microeconomics** **48/0/3.0**

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price, and output decisions by firms under various market structures, factor markets, market failures, and international trade.

Upon completion of this course, students will be able to explain and apply the production function and the Law of Diminishing Marginal Productivity; calculate and graph short-run and long-run costs of production and identify the four market structures by characteristics; calculate and graph the profit maximizing price and quantity in the output markets by use of marginal analysis. Students will also determine the profit maximizing price and quantity of resources in factor markets under perfect and imperfect competition by use of marginal analysis, describe governmental efforts to address market failure such as monopoly power, externalities, and public goods, and identify the benefits of free trade using the concept of comparative advantage.

Prerequisites: ECON 2301 Principles of Macroeconomics

BUSG 2311 **Entrepreneurship and Innovation** **60/36/5.0**

This course is an introduction to Entrepreneurship and Innovation. Students will develop successful business ideas, learn how to manage and grow an entrepreneurial firm, learn how to conduct a feasibility analysis, how to write and present a business plan, how to develop a business model, and the ethical and legal issues facing new firms..

Upon completion of this course, students will be able to define the characteristics of successful entrepreneurs and write and present a business plan. They will be able to describe ethical and legal issues facing new firms, assess the importance of getting financing or funding and define intellectual property and patents, plus describe franchising and how it works.

Prerequisites: None

BMGT 3321 **Production/Operation Management** **48/48/4.5**

This course examines the functional area of production and operations management in the manufacturing industry. Topics include decision-making, capacity planning, aggregate planning, forecasting, and inventory management, distribution planning, materials requirements planning (MRP), project management and quality control.

Upon completion of this course, students will be able to identify product and process designs, implement productivity improvement, and explain Quality Management. They will understand new product development and apply forecasting methods and capacity planning measures.

Prerequisites: None

IBUS 3300 **Logistics Management** **48/0/3.0**

This course will include Financial Logistics, Inventory Management Logistics, Warehouse Management Logistics, Packing and Materials Handling Logistics, and Transportation Logistics. It will also address how today's technology affects the overall environment of Logistics, organizational and managerial issues in Logistics, the importance of facility location, and transportation infrastructures.

Upon completion of this course, students will be able to describe a supply chain and define supply chain management and explain the importance of supplier partnerships and the role of demand forecasting. Students will be able to compare & contrast the various modes of transportation and their impacts on cost and understand the various causes of the bullwhip effect and how they impact process.

Prerequisites: None

LSSY 3310 **Principles of Lean Six Sigma** **48/0/3.0**

Lean Six Sigma is a method that provides organizations tools to improve the capability of their business processes. The increase in performance and decrease in process variation lead to defect reduction and improvement in profits, employee morale, and quality of products or services. It adopts the approach of advancing the concept and potential of using Six Sigma tools and methodologies within an organization. Also, students will develop skills necessary to identify, monitor and control "profit-eating" practices in a process.

Upon completion of this course, students will be able to identify the role of a Lean Six Sigma Yellow Belt within the organization, apply project management skills, identify process improvements that support the project, and explain Process Concepts and Variation. Students will understand Six Sigma Metrics.

Prerequisites: None

LSSG 3311 **Applied Lean Six Sigma** **48/0/4.5**

The Lean Six Sigma Green Belt course is designed to present the role of a Green Belt who operates in support of or under the supervision of a Six Sigma Black Belt, analyzes and solves quality problems and is involved in quality improvement projects. The course teaches the student define-measure-analyze-improve-control methodology using case studies from several industries. Also, students will learn to define improvement projects to satisfy the customer and reduce variation.

Upon completion of this course, students will be able to analyze and solve quality problems and apply quality or continuous improvement projects. They will demonstrate knowledge in Six Sigma tools and processes and explain the DMAIC methodology (Define, Measure, Analyze, Improve, and Control).

Prerequisites: LSSY 3310 Principles of Lean Six Sigma

FINA 3315 **Business Finance** **48/0/3.0**

This course provides an overview of business financial management. Emphasis is on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

Upon completion of this course, students will be able to apply the principles of business finance which support the overall financial strategy of the organization and apply the standard and accepted accounting principles when reporting, recording, and projecting financial information. Students will explain the structure of financial statements and effectively utilize the time value of money, and financial return and risk concepts to conduct professional financial analyzes.

Prerequisites: None

BMGT 3301 **Project Management** **48/0/3.0**

The goal of this course is to provide concepts and skills that are used by managers to propose, plan, secure resources, budget, and lead project teams to successful completions of their projects. Students will understand why organizations have developed a formal project management process to gain a competitive advantage.

Upon completion of this course, students will be able to identify effective project management contributes to achieving strategic objectives and demonstrate how to employ checklists and simple scoring models to select projects. Lastly students will be able to construct and comprehend Gantt charts.

Prerequisites: None

BMGT 4333 **Non-Profit Organization Management** **48/0/3.0**

This course examines management principles and practice for nonprofit organizations. Consideration is given to leadership in a nonprofit environment, the motivation of staff and volunteers, the role of the founder and the board, and types and structures of nonprofit organizations.

Upon completion of this course, students will be able to identify nonprofit structure, outline key ethical issues for managers, staff, and volunteers and key financial and legal issues for nonprofit organizations. Students will be able to discuss the importance of marketing and communication and social media and explain the basics of nonprofit fundraising and grant writing process.

Prerequisites: None

BMGT 4302 **HR Management Development** **48/0/3.0**

This course is concerned with the development of knowledge and skills needed for productive and satisfying work in which in turn is critical to organizational success. As a key to human resource specialty area, it provides a vital service for today's employees, employers, corporations, and society.

Upon completion of this course, students will be able to explain Human Resource Development (HRD) and the need for HRD and design, implement HRD programs and evaluate HRD programs. Students will demonstrate coaching and performance management and demonstrate employee counseling, well-being, and wellness. Students will understand the scope and implementation of career management and development.

Prerequisites: HRPO 2301 Human Resources Management

BMGT 4020 **E-Business** **48/0/3.0**

E-business focuses on the opportunities that can be provided when private and public organizations interact with their customers, clients, or stakeholders. This allows you to create services, and other solutions that support the strategy and desired goal for both companies and society at large. Learn skills and knowledge you need for e-commerce (buying and selling over the Internet) and e-business (conducting business using Internet technology).

Upon completion of this course, be able to identify and explain the variety of e-business models, i.e., business to business, business to customer, consumer to consumer, determine an appropriate e-business model and apply it to a specific business, explain the implementation of the 4P's to a specific target market and define and describe the term "Internet economy". Students will also be able to identify the severity of down-turns in the business cycle on traditional vs. Internet businesses.

Prerequisites: None

BMGT 4301 **Advanced Project Management** **48/48/4.5**

The course covers the five process groups of project management: Initiating, Planning, Executing, Monitoring, and Controlling, and Closing. The course focuses on the concepts and skills required of project managers to successfully manage a project.

Upon completion of this course, students will be able to calculate the probability of a project finishing on time under PERT estimates, construct and comprehend Gantt charts, incorporate various life cycles and methodologies, identify program/portfolio management, and apply critical chain project management to project portfolios

Prerequisites: BMGT 3301 Project Management

BMGT 4325 **International Business Management** **48/0/3.0**

This course provides an overview of the international organizations and the effects of the foreign environment on international business. The course will focus on cultural differences; theories of international trade and economic development; international finance; marketing internationally and practical applications of starting and maintaining international business relationships.

Upon completion of this course, students will be able to assess the environment: Political, Economic, Legal, and technological, explain the role of culture, communicating, cross-cultural negotiation and decision making. Students formulate strategy: Strategic Alliances, Small Business, Emerging Economy firms, and identify organization structure and control systems. They will be able to apply staffing, training, and compensation for global operations.

Prerequisites: None

ACNT 4312 **Tax Accounting** **48/0/3.0**

This course covers the fundamentals of Federal income tax and how it influences taxpayer decisions. The course is designed to acquaint the student with the working and concepts of the federal tax law specifically to individuals and business entities. The course explains principles and concepts of federal income tax for individuals, corporations, and partnerships; underlying rationale; planning to minimize tax impact.

Upon completion of this course, students will be able to explain the primary objectives of the federal income tax law, use components of the tax formula to calculate an individual's federal income tax liability, determine which sources of expenses incurred or paid are deductible for federal income tax purposes, identify and calculate the various tax credits allowed by law, and demonstrate the ability to conduct basic research using online data bases.

Prerequisites: ACNT 1525 Accounting Principles I

ADVT 4336 **Advertising Creative Strategy & Execution** **48/0/3.0**

Development of effective creative campaigns. Students will design advertisements for print, broadcast, interactive, and specialty media that meet specific campaign objectives. Students will cover advertising as an institution, strategy development, and creative execution in the advertising media. The coursework provides a basic understanding of the advertising process, advertising's role in society, its procedures, and practices

Upon completion of this course, students will be able to explain unexpected but relevant selling messages and demonstrate what identity and image strategy does to products, and create a strategy for reaching out to an ever-

changing marketplace, demonstrate how to connect to the consumer's heart and mind. Students will further explain the power of radio, television, and social media and identify Government regulations on advertising.

Prerequisites: MRKG 1311 Principles of Marketing

BMGT 4300

Capstone

48/0/3.0

This course will have students develop a detailed project proposal and complete a final capstone project linking the areas of study of the student's BA degree plan with intellectual interests. The final written project will consist of research, reviews, and analysis targeted towards a specified audience. A presentation of the project is required.

Upon completion of this course, students will be able to demonstrate the strategy of making process, and their Capstone will identify stakeholders, the mission, governance, and business ethics. Students will conduct an external analysis (the identification of opportunities and threats), building competitive advantage and propose Strategic Change (implementing strategies to build and develop a company).

Prerequisites: All preceding courses.

BMGT 4388

Professionalism Development and Internship

16/32/180/6.0

This course focuses on career preparation, job search tools and resources, and professionalism. Student will also perform in a mock interview with a real-world employer that will grade them on their interviewing skills. The mock interview will also prepare the students for interviews in their job seeking endeavors Internship will integrate the knowledge and skills students learned in the program. Working under the direction and supervision of business owners, managers, supervisors, or industry experts, students maintain ethical and professional work standards while applying classroom learning. Students will receive actual hands-on application in a workplace environment.

Upon completion of this course, students will be able to conduct a targeted job search, including a realistic job preview, create a job search portfolio, identify references to be used in your job search and sources for job lead, identify the steps for building a resume package and create a resume and cover letter, demonstrate strategies to implement when invited to an interview, discuss salary negotiation strategies, define a team and its functions and Conduct collaborative work in the community. Students will be able to recognize the importance of individual and cultural differences and respond appropriately, demonstrate initiative and interest in performing the duties assigned, and maintain good attendance and punctuality, maintain a professional appearance. Students will be required to demonstrate competency in Word, Excel, Human Resource Management, Marketing, Advertising, Accounting, Payroll and Project Management, demonstrate they recognize ethical decision making, use organizational skills and complete projects assigned on a timely basis, and demonstrate ability to work in a team, meet deadlines and keeping work area clean and organized.

Prerequisites: All preceding courses

BACHELOR OF SCIENCE IN NURSING

Available at 9451 Diana Drive Campus



CAREER OPPORTUNITIES FOR BSN GRADUATE NURSES

According to the American Association of Colleges of Nursing, graduates of a BSN program are more likely to have job offers at the time of graduation compared with graduates in other fields. Estimate from Texas State Department of Health Services (2016), shows that by 2030, while projected supply of RN FTEs is expected to grow by 35.4%, demand for nurses will grow by 53.8%, leaving a deficit of 59, 970 RN FTEs.

Here is a look at some of the potential career opportunities for nurses available to BSN graduates.

- Hospital staff nurse
- Home Health nurse
- Nursing care facilities
- Physicians’ offices
- Genetics nurse
- Critical care nurse
- Public health nurse
- Forensic nurse



Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2016	210,775	2,955,200
Projected Employment 2026	261,607	3,393,200
Absolute Change 2016-2026	50,832	438,100
Percent Change 2016-2026	24.10%	15.0%
Average Hourly Wage 2016	\$34.65	\$33.75
Average Openings per year due to Replacement	Not available	16,980
Average Openings per year due to Growth	Not available	261,607
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

BACHELOR OF SCIENCE IN NURSING
COURSES 1-40
2265 CLOCK HOURS
120 SEMESTER CREDIT HOURS

EDUCATIONAL OBJECTIVES

The Bachelor of Science in Nursing program at WTC provides students with the theory, laboratory and clinical experiences that will serve as preparation for an entry level position in registered nursing. Upon successful completion of the program, the graduate is eligible to take the NCLEX-RN (National Council Licensure Examination-RN) exam to obtain licensure, as required by the State of Texas to practice nursing. Nursing theory provides the foundation of the nursing practices and guides students with what and how to perform in clinical practices. The clinical portion of the program provides students with actual hands-on experience in giving basic-to- advanced nursing care to patients of all ages. Clinical experience, training is provided in skills simulation lab, in long-term treatment facilities, and at acute hospital settings.

The BSN program consists of 120 semester credit hours that is divided into 8 semesters, where the initial 3 semesters cover general education courses, and the remaining 5 semesters cover the nursing major courses. The nursing program semester is 15 weeks long and the entire BSN program runs for 32 months from start to finish.

TIME CODES

The following time code is used on all courses to illustrate the amount of time students will spend in class or lab per course and the subsequent number of credit hours awarded.

45/0/0/3.0- Theory hours per course / Lab hours per course / Clinical hours per course/Semester total hours per course

CLASS SIZE

A maximum of 30 students per class and a maximum of 10:1 student instructor ratio for clinicals.

EXPECTED STUDENT OUTCOMES

Upon completion of this program, each student will be able to do the following:

1. Integrate theory and knowledge of the science, social sciences, humanities, and nursing as a foundation for nursing practice.
2. Apply the nursing process to manage the care of individuals, families, and populations with respect for diversity in a variety of health care settings.
3. Demonstrate the inherent professional values and behaviors in the delivery of individual, families, and population centered care.
4. Demonstrate cultural sensitivity in meeting the physical and psychosocial needs of the client.
5. Analyze the effect of existing government policies on the health care delivery system.
6. Facilitate inter-professional and intra-professional communication and collaboration to improve practice, minimize risks, and optimize health outcomes.
7. Apply the competencies of leadership, quality improvement and patient safety to improve health outcomes for individuals, families, and populations.
8. Contribute to the development and implementation of a therapeutic teaching plan.
9. Critique current health delivery system, offering corrective improvement ideas.

MISSION AND PHILOSOPHY

The nursing program mission is to prepare culturally sensitive professional nurses who are well versed in the delivery of safe, compassionate and holistic patient-centered care using evidence-based interventions and sound clinical judgment for individuals, families, populations and communities across the lifespan. We are committed to

doing so through the application of an academically sound curriculum delivered by dedicated and exceptional educators. The mission of WTC College Nursing Program is incongruent with the mission of the college.

GRADUATION REQUIREMENT: Students from the BSN program are required to graduate with a 3.0 or higher. The college reserves the right to withhold official transcripts to a student until all financial obligations to the college have been fulfilled or satisfactory arrangements have been made. They must also attend and complete a financial aid exit interview and must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

To better prepare students planning to enter nursing, an understanding of the physical and mental requirements expected by employers is essential. The student is expected to meet the same professional abilities during clinical/lab instruction in the Nursing Program. Students must be able to:

1. Demonstrate consistent ability to deliver safe competent nursing care.
2. Demonstrate ability to deliver care across the age spectrum with honesty, civility, integrity, and non-discrimination.
3. Demonstrate effective communication and interpersonal skills.
4. Must be able to read and write in English and communicate verbally in English.
5. Demonstrate emotional stability and maturity in various circumstances through interpersonal relationships with staff, patients, and visitors.
6. Demonstrate ability to differentiate odors and colors in the clinical setting.
7. Have normal/corrected vision and hearing within the normal range.
8. Demonstrate ability to direct and work in stressful, changing, and high paced facilities demonstrating coping skills.
9. Demonstrate good body mechanics, lift/carry a minimum of twenty-five (25) lbs. independently and fifty (50) lbs. with assistance.
10. Demonstrate ability to tolerate intermittent sitting, standing, stooping, and walking. Full range of motion is required.
11. Demonstrate good manual and finger dexterity.
12. Demonstrate working knowledge and ability to use computers.
13. Function to full extent as there are no "limited or light duty assignments"

LICENSURE EXAMINATION

Approximately three months prior to graduation, submit the required applications and fees in preparation for licensure. The application process is two-fold; first, the State Board of Nursing in Texas requires an application and fee to process the license, and secondly, the testing center, Pearson Vue, requires a separate application and testing fee to register the applicant to take the licensing exam. The dean of nursing will provide the students with the necessary information to facilitate this process. Additionally, the state of Texas requires all applicants for the NCLEX- RN to pass the Texas Nursing Jurisprudence Examination online prior to been issued an authorization to test for the NCLEX examination. Refer to the TBON website <http://www.bne.state.tx.us/> under the Licensure tab and then click on Examination for details.

BACHELOR OF SCIENCE IN NURSING

#	Course	Title	Hrs.	Lec/ Supervised Lab	Semester Credit Hours
1	ENGL 1301	English Composition I	45	45/0	3.0
2	BIOL 1401	Anatomy & Physiology I	75	45/30	4.0
*3	PHIL 1301	Philosophy I	45	45/0	3.0
4	HIST 1301	U.S. History I	45	45/0	3.0
5	MATH 1312	Algebra	45	45/0	3.0
*6	SPCH 1315	Public Speaking	45	45/0	3.0
*7	PHIL 2255	Medical Ethics & Issues	30	30/0	2.0
8	BIOL 2421	Microbiology	75	45/30	4.0
9	BIOL 2402	Anatomy & Physiology II	75	45/30	4.0
*10	SOCI 1358	Sociology	45	45/0	3.0
*11	PSYC 1380	Life Span Human Development	45	45/0	3.0
*12	BIOL 1360	Introduction to Human Nutrition	45	45/0	3.0
*13	PSYC 2301	General Psychology	45	45/0	3.0
14	ENGL 1302	Research Analysis	45	45/0	3.0
15	MATH 1342	Statistics	45	45/0	3.0
*16	CHEM 1470	Chemistry	75	45/30	4.0
17	PATHO 2330	Human Pathophysiology	45	45/0	3.0
18	POLS 3389	Policy & Politics in Healthcare	45	45/0	3.0
19	NURS 2200	Foundation of Nursing	30	30/0	2.0
20	NURS 2400L	Foundation of Nursing Lab/Clinical	120	0/120	4.0
21	NURS 2210	Gerontologic Nursing	60	30/30	3.0
22	NURS 2220	Health/Physical Assessment	60	30/30	3.0
23	NURS 2230	Pharmacology	30	30/0	2.0
24	NURS 3300	Medical Surgical Nursing I	30	30/0	2.0
25	NURS 3500L	Medical Surgical Nursing I Lab/Clinical	120	0/120	4.0
26	NURS 3270	Cultural Diversity & Health	30	30/0	2.0
27	NURS 3384	Nursing Research	45	45/0	3.0
28	NURS 3340	Medical Surgical Nursing II	45	45/0	3.0
29	NURS 3440L	Medical Surgical Nursing II Lab/Clinical	120	0/120	4.0

===== **WESTERN TECHNICAL COLLEGE CATALOG** =====

30	NURS 3250	Mental Health	30	30/0	2.0
31	NURS 3150L	Mental Health Lab/Clinical	30	0/30	1.0
32	NURS 3320	Community Health Nursing	60	30/30	3.0
33	NURS 4370	Medical Surgical Nursing III	45	45/0	3.0
34	NURS 4370L	Medical Surgical Nursing III Lab/Clinical	120	0/120	4.0
35	NURS 4460	Maternal Child Nursing	60	60/0	4.0
36	NURS 4460L	Maternal Child Nursing Lab/Clinical	60	0/60	2.0
37	NURS 4410	Nursing Leadership & Management	90	30/60	4.0
38	NURS 4250	Professional Nursing Issues	30	30/0	2.0
39	NURS 4380	Preceptorship + Lab/Clinical	90	0/90	3.0
40	NURS 4390	Nursing Capstone	45	45/0	3.0
Total Hours and Credits - Bachelor of Science in Nursing			2265	1335/930	120.0

NOTE: Program courses for the Nursing curriculum are designed in a sequential manner. Each course of the curriculum is ordered such that the subsequent material is based on skills acquired from prerequisite courses. Exceptions to this include courses denoted with an asterisk (*).

NURSING COURSE DESCRIPTIONS

NURS 2200

FOUNDATION OF NURSING

30/0/2.0

This course promotes nursing as an evolving art and science directed to human health and well-being. Students will cultivate the Quality and Safety Education for Nurses (QSEN), critical thinking, and blended skills practiced within the nursing process to serve patients and the public. Students will combine cognitive, technical, and interpersonal skills to promote the four aims of nursing: promoting health; preventing illness; restoring health and facilitating coping with illness or death. Students will identify with their profession and share in its rewards by developing an attitude of caring and accountability in patient care. The NUR200L Foundation of Nursing Lab/Clinical course must be taken concurrently with this course.

Upon completion of this course, students will be able to:

- Describe the foundations of nursing, including health and illness, human needs, nursing theory, research, and evidence-based practice.
- Evaluate the settings in which health care is practiced and the methods taken to ensure continuity of care for the patient.
- Describe and practice the components of the nursing process: assessing; diagnosing; planning; implementing; and evaluating.
- Use theories of growth and development across the lifespan to enhance the patient care plan.
- Describe the roles basic to nursing care, including communicator; teacher; counselor; leader; manager and care coordinator.
- Discuss the actions basic to nursing care: maintaining asepsis, measuring vital signs, assessing health promoting safety, incorporating complementary and alternative therapies, administering medications, and caring for patients in all healthcare settings.
- Promote healthy physiologic responses in patients: hygiene, skin integrity and wound care, activity, rest and sleep, comfort and pain management, nutrition, urinary and bowel elimination, oxygenation and perfusion, electrolyte, and acid-base balance.

- Develop plans of care to help patients meet basic psychosocial needs: self-concept; stress and adaptation; loss, grief, and dying; sensory stimulation; sexuality; and spirituality.

NURS 2400L

FOUNDATION OF NURSING LAB/CLINICAL

0/120/4.0

This course presents basic nursing skills that will assist nursing students to incorporate cognitive, technical, interpersonal, and ethical/legal skills into safe and effective patient care. The skills included focus on basic principles of patient care, including an emphasis on safe medication administration. Students will apply the nursing process as they care for patients in skilled units of a long-term care facility.

Upon completion of this course, students will be able to:

- Demonstrate basic nursing care in a safe manner in an instructor supervised skills laboratory and real-life patient care settings.
- Collect subjective and objective health assessment data for adult patients in a long-term care setting.
- Apply the nursing process as a method for clinical reasoning and decision making.
- Demonstrate accurate calculation of medication dosages.
- Demonstrate accurate and complete documentation of patient care in the DocuCare electronic medical record.
- Demonstrate nursing interventions to promote basic needs in the clinical setting, including activity and exercise; patient safety; hygiene; oxygenation, fluid, electrolyte and acid base balance; sleep; pain management; nutrition; urinary elimination; bowel elimination; skin integrity and wound care; and sensory alterations.
- In a simulated laboratory setting and where opportunities are available in a real-life patient setting, demonstrate the following procedures according to best practices and evidenced based research:
- Asepsis and Infection Control: handwashing; PPE; sterile field; sterile gloves.
- Vital Signs.
- Safety: fall prevention and restraints.
- Medication Administration: oral, injectable (intradermal, SQ, IM); transdermal; eye drops; ear drops; nasal spray; vaginal; rectal; inhaled; metric and household systems of measurement; drug abbreviations, labels, and packaging; calculation of oral medications; calculation of liquids for injection.
- Perioperative: deep breathing; coughing; splinting; leg exercises; post-op receiving to room
- Hygiene: bathing; oral care; contact lenses; hair; shaving; nail care; bed making.
- Skin Integrity and Wound Care: dry, sterile dressing; saline-moistened dressing; hydrocolloid dressing; wound irrigation; wound culture; Montgomery straps; suture removal; staple removal; heating pad; warm compress; cold therapy.
- Activity: turning in bed; moving a patient up in bed; transferring; ROM exercises; ambulation; graduated compression stockings; pneumatic compression devices; CPM device; sling.
- Comfort and Pain Management: promoting comfort; back massage.
- Nutrition: assisting with eating.
- Urinary Elimination: bedpan, urinal, bedside commode
- Bowel Elimination: enema; digital removal of stool; fecal incontinence device.
- Oxygenation: pulse oximeter; incentive spirometer; oxygen by nasal cannula and mask.
- Cardiovascular Care: CPR.
- Neurologic Care: logrolling; cervical collar; seizure precautions.
- Laboratory Specimen collection: nasal swab; nasopharyngeal swab; sputum specimen; urine specimen, clean catch; occult blood in stool; stool for culture; capillary blood sample for glucose testing

NURS 2210

GERONTOLOGIC NURSING

30/30/3.0

This course provides a foundation for the nurse's role in providing wellness-oriented nursing care in all stages of health and illness for older adults in any health care setting. Students will understand the complex needs of older adults in the context of age-related changes and individual risk factors as they apply the nursing process to deliver holistic care in a long-term care clinical setting through the roles of practitioner, educator, advocate and researcher.

Upon completion of this course, students will be able to develop a wellness philosophy in the care of older adults and explain the Functional Consequences Theory applied to the nursing care of older adults. Students will further be able to describe the role of the nurse in promoting wellness for older adults about aspects of daily life as well as complex situations such as medication management, elder abuse, and legal and ethical concerns. Apply nursing interventions to support wellness in psychosocial functioning. Students will also be able to differentiate between age-related changes and risk factors that affect all aspects of physiologic and psychosocial function for older adults and identify those that are most amenable to health promotion interventions. Lastly, students will be able to apply concepts of wellness to older adults through all stages of health and illness, including acute and chronic conditions, pain management, and at the end of life.

NURS 2220

HEALTH/PHYSICAL ASSESSMENT

30/30/3.0

This course provides assessment tools to assist the student to obtain a thorough history and perform a comprehensive physical examination of adult and geriatric patients. Students will learn to elicit information related to patient complaints and use the history findings and critical thinking skills to prioritize and guide the physical examination. Health promotion and disease prevention are highlighted for students to incorporate when educating patients, families, and communities.

Upon completion of this course, students will be able to explain the components of the health assessment. Analyze a written patient history and physical examination findings to identify patient problems and develop a nursing care plan. Students will also be able to describe the phases of the nurse-patient interview, use therapeutic communication techniques during the patient interview and physical examination and obtain a comprehensive health history from a patient. Students will perform and document a comprehensive physical examination using a systematic, head-to-toe approach on a simulated adult patient, and recognize normal physiologic changes in the older adult. Lastly, students will perform and document a health history and physical examination utilizing screening tools which address common concerns in the older adult and demonstrate proper use of equipment utilized in physical examination.

NURS 2230

PHARMACOLOGY

30/0/2.0

This course introduces nursing pharmacology to build a foundation for administering drug therapy to patients. Discussion of the major drug groups focuses on therapeutic actions and indications, pharmacokinetics, contraindications and cautions, adverse effects, clinically important drug-drug interactions, and nursing considerations which emphasize the nursing process and focus on patient care and teaching. Prototypes of the major drug groups are emphasized. Lifespan considerations, evidence for best practice, patient safety, and critical thinking are integrated throughout the course.

Upon completion of this course, students will be able to discuss the major concepts associated with pharmacology including pharmacodynamics, pharmacokinetics, therapeutic effects, adverse effects, and factors affecting drug therapy. Students will be able to explain the legal regulation for drug development, approval, and testing, and challenges associated with drug therapy in current times. Students will describe the major drug groups and their indications for use; correlate the actions of the major drug groups with the body system(s) affected and identify the prototype for each of the major drug groups. Students will discuss the important lifespan considerations associated with the major drug groups and explain the mechanism of action, indications, contraindications and cautions,

hygiene; oxygenation, fluid, electrolyte and acid base balance; sleep; pain management; nutrition; urinary elimination; bowel elimination; skin integrity and wound care; and sensory alterations.

NURS 3270 **CULTURAL DIVERSITY & HEALTH** **30/0/2.0**

This course focuses on the role of the nurse to address the needs of clients in diverse populations across the life span. Theory and research-based evidence from nursing and other disciplines are integrated with concepts of caring and cultural competences. Concepts such as cultural awareness, readiness, sensitivity, and cultural education will be emphasized. In partnership with clients, the student develops, implements, and evaluates a cultural teaching plan designed to produce a desired change in behavior.

Upon completion of this course, student will be able to describe influences that affect culturally competent healthcare; describe how diversity affects health and illness care, including culturally based traditional care; and describe cultural competence when assessing and providing nursing care for patients from diverse cultural groups.

NURS 3384 **NURSING RESEARCH** **45/0/3.0**

This course helps students learn how to read and critique research reports and to develop an appreciation of research as a path to enhancing nursing practice.

Upon completion of this course, students will be able to discuss the need for evidence-based practice, compare quantitative research with qualitative research. Identify the components of a well-worded clinical question and be able to frame such a question. Students will also be able to describe the flow and sequence of activities in quantitative and qualitative research and discuss why they differ and describe aspects of a research critique.

Students will also be able to describe the process of developing and refining a research problem and understand the process of screening, abstracting, critiquing, and organizing research evidence. Students will be required to describe approaches for assessing the reliability and validity of measures, and critique researchers' interpretation of their results in a discussion section of a report.

NURS 3340 **MEDICAL SURGICAL NURSING II** **45/0/3.0**

This course provides an understanding of the nurse's role in patient-centered care within evolving practice environments and across the spectrum of health and illness. This course will address nursing care issues including cancer care; end-of-life care; hematologic; immunologic; musculoskeletal; metabolic; endocrine; and reproductive function from a physiologic, pathophysiologic, and psychosocial context. Students will apply this knowledge through the nursing process and clinical reasoning in an acute care clinical setting as they assume the roles of practitioner, educator, advocate and researcher through the NURS 3340L Medical Surgical Nursing II Lab/Clinical course which must be taken concurrently.

Upon completion of this course, students will be able to discuss end-of-life issues and care as they relate to professional nursing practice. They will be able to demonstrate a comprehensive understanding of cancer, hematologic, immunologic, musculoskeletal, metabolic, endocrine, and reproductive function, and apply the nursing process to patients experiencing cancer, hematologic, immunologic, musculoskeletal, metabolic, endocrine, and reproductive dysfunction. Students will also be able to describe safe, effective nursing care for patients with cancer, hematologic, immunologic, musculoskeletal, metabolic, endocrine, and reproductive dysfunction through the nursing roles of practitioner, educator, advocate, and researcher.

Upon completion of this course, students will be able to analyze the potential impacts of raising the educational entry level on the current nursing shortage, workforce diversity, and intra-professional conflict. Describe the driving and restraining forces for increasing the entry educational level for advanced practice nursing to that of a practice doctorate. Evaluate strategies directed at both supply and demand factors that have been proposed to reduce the current nursing shortage. Integrate ethical, legal, and human rights as guides for developing best practices to guard against and respond to workplace violence. Analyze how social media can be effectively used by the professional nurse. Identify at least three models of transition to practice programs. Discuss consequences of a lack of academic integrity in nursing programs. Compare continuing education requirements for nurses with those for other health care professionals. Identify issues currently being debated in the legislature that affect nursing and health care. Explore the roles and responsibilities that individual nurses, employers, professional associations, and the media must ensure that nurses are portrayed accurately and positively to the public. Describe types of nursing associations and their value to members and the profession.

NURS 4380 **PRECEPTORSHIP + LAB/CLINICAL** **0/90/3.0**

This course builds on the knowledge and skills obtained in the nursing curriculum and integrates the curriculum concepts in varied/diverse practice settings. Synthesis of management, organizational, culture and interpersonal relationship principles are applied with developing independence in the practice of nursing. This course facilitates the students' evaluation of principles and practices of the profession of nursing while assisting in the role transition to a practicing registered nurse. Clinical environments could be, but are not limited to medical/surgical, mental health, pediatric, maternity, critical care, home, nursing home and extended or ambulatory care units.

Upon completion of this course, the students will be able to deliver holistic nursing care to groups of patients consistent with the job description for a registered nurse in the assigned clinical practice setting, and apply the nursing process and critical thinking skills when implementing safe, appropriate, and caring interventions within the professional nursing scope of practice. Students will be able to demonstrate effective management of both the patients and staff through collaboration and delegation and evaluate how the organizational design and culture of the health care system affects the delivery of nursing care. Lastly, students will be able to demonstrate professional communication techniques when interacting with staff, patients, and families and evaluate the legal and ethical aspects of the professional nursing role in the assigned clinical practice setting. Students will use standards of practice to evaluate care administered by the interdisciplinary health care team, as they participate in coordination of patient transfer to and from the assigned clinical practice unit and/or setting.

NURS 4390 **NURSING CAPSTONE** **45/0/3.0**

This course prepares students to transition to the professional nursing role as an entry-level registered nurse. Students will understand the importance of effective inter- and intra-professional communication and work dynamics, the employment process, career development, nursing jurisprudence related to the provision of safe and effective nursing care, and preparation for the NCLEX-RN examination.

Upon completion of this course, students will be able to identify individual nursing content areas of mastery and weakness and develop an individualized study plan for the NCLEX-RN. Students will be required to discuss differentiated practice as it applies to Texas Board of Nursing educational outcomes for graduates of Texas nursing programs, and explain the competencies needed by the new graduate as outlined by the job analysis study that is the basis for the NCLEX-RN. They will meet the Texas Board of Nursing criteria for successful completion of the Texas Nursing Jurisprudence examination, and develop a personal career plan, create a professional portfolio. Lastly, students will demonstrate a variety of communication modes for effective organizational communication. Describe group dynamics and roles to facilitate communication and productivity.

===== **WESTERN TECHNICAL COLLEGE CATALOG** =====

NOTE: ENGL 1301, PHIL 1301, HIST 1301, MATH 1312, SPCH 1315, PSYC 2310, ENGL 1302, and MATH 1342 all include 45 hours of lecture and have the same course descriptions and credit values as the courses listed with the same course codes in the General Education Section.

BACHELOR OF SCIENCE IN TECHNICAL MANAGEMENT (COMPLETION PROGRAM)

Available at 9451 Diana Drive Campus (Online)



Individuals pictured above are actors, students and/or employees of Western Tech

CAREER OPPORTUNITIES IN MANAGEMENT

The Bachelor of Science in Technical Management completion program will help students learn to cultivate a variety of skills and assets needed by businesses. Supervisors directly oversee and coordinate the activities of clerical and administrative support workers. Supervisors and Administrative Support Workers held about 119,490 jobs in 2010. There was above average growth rate in colleges and universities, office administrative services, and an average growth rate in business support services. Employment growth is projected to increase by 53.90% in Texas and 14.30% nationally.

Labor Market Information (2012 thru 2022 Projections)	Texas	National
Labor Market Information Employment 2012	115,420	1,424,450
Projected Employment 2022	139,670	1,589,600
Absolute Change 2012-2022	24,250	171,500
Percent Change 2012-2022	21%	12.10%
Average Hourly Wage 2013	N/A	\$27.01
Average Hourly Wage 2014	\$26.96	N/A
Average Openings per year due to Replacement	2,745	Not available
Average Openings per year due to Growth	2,425	Not available
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

ENTRANCE REQUIREMENTS FOR APPLICANTS PURSUING THE BACHELOR OF SCIENCE IN TECHNICAL MANAGEMENT (COMPLETION PROGRAM)

Online Program/Courses

Students who enroll in the Bachelor of Science in Technical Management completion program will receive training through an online delivery system, that is, a portion of their training is provided in a combination of classes being offered online. Specifically, this program will provide 100% of the training and education online.

Online courses are web-based and delivered over the Internet using Western Tech's Learning Management System (Canvas). The system provides both synchronous and asynchronous tools used for on-line delivery. The on-line content of the course is covered by using a variety of on-line educational activities such as discussion boards, chat sessions, conference sessions, case studies, lab simulations, and quizzes. In an online program, the content is organized for the student to have the flexibility to complete the on-line activities based on their personal/work schedules.

Regardless of the mode of delivery, students entering this program can expect the same level of support as on-ground students to include tutoring services, technical support, employment preparation and assistance with job leads, and access to the school's library.

Participation in online classes is vital to successful program completion. Students must have Internet access in order to fulfill course requirements and succeed in their classes. In addition, students must have a minimum level of comfort with technology, as they may find themselves needing to access course work online.

For that reason, all prospective students considering enrollment in any of the online programs are required to take a short "Suitability for Distance Education" survey before they enroll in school. The survey is designed to identify the prospective student's level of proficiency in the use of technology. Students can expect support in the form of training tailored to their identified needs so that they can handle the demands of the Learning Management System that houses much of their work.

ADMISSIONS REQUIREMENTS

To be eligible for enrollment into the Bachelor of Science in Technical Management completion program, a prospective student must have earned an associate's degree recognized by the United States Department of Education. Classes are taught in English; therefore, an adequate level of proficiency in reading, writing, and speaking the English language is required.

Prospective students must have an earned associate degree in a technical or technology program in order to enroll into the BSTM completion program.

- prospective students with an earned associate of applied science (AAS) or associate of science (AS) with 15 general education credits can enter the program with no additional prerequisites.
- prospective students with an earned associate of occupational science (AOS) degree must take additional general education courses to complete 15 required general education credits.

**the required 15 credits of general education courses include ENGL 1301, SCOM 1315, MATH 1312, PHYS 1401, and PSYC 2301.

Prospective students can be awarded exemption credits based on related work experience.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Western Tech's Bachelor of Science in Technical Management completion program is an online program. It has established technical standards and essential functions for the program as more fully listed below. The ability to meet these standards and essential functions, with or without reasonable accommodation, is required in order to complete the program satisfactorily. Please review the following technical standards and essential functions carefully.

1. The ability to understand course materials and maintain a certain grade/performance level that meets the set academic requirements.
2. The ability to maintain a professional demeanor at all times and interact professionally with fellow students, administration and faculty.

3. The ability to listen, understand, and communicate ideas presented through spoken words and sentences.
4. The ability to match or detect differences between colors, including shades of color and brightness.
5. The ability to work with others in a team environment.
6. The ability to respect instructor, and classmates.
7. The ability to utilize computers and perform basic computer functions with programs such as Word, Outlook, and Excel.
8. Must be able to utilize E-Books

Western Tech does not discriminate in admission or access to programs on the basis of any characteristic protected by law, including disability. Persons with disabilities are eligible for admission, as long as, they can carry out classroom, laboratory and internship assignments; pass written, oral and practical examinations; and meet all of the requirements of the program and generally accepted requirements of the profession, with or without reasonable accommodation. Western Tech will make reasonable accommodations for disabilities. Applicants and students who require accommodation should contact the Campus President and submit a written request for accommodation.

BACHELOR OF SCIENCE IN TECHNICAL MANAGEMENT (COMPLETION PROGRAM)

COURSES 1-20

960 CLOCK HOURS

60 SEMESTER CREDIT UNITS (TWC & THECB)

60 SEMESTER CREDIT HOURS (ACCSC)

EDUCATIONAL OBJECTIVES

The Bachelor of Science in Technical Management completion program will help students learn to cultivate a variety of skills and assets needed by businesses. The program will provide students with the knowledge and technical skills needed for positions in business and may also provide students with opportunities for career advancement. The program provides training in a variety of courses to include: Accounting, Principles of Lean Six Sigma, Project Management, Operations, among others. It will also provide hands-on experience in Microsoft Word and Excel. This program provides General Education, technical, and specialized courses that will prepare the graduate for careers in private, public, and government sectors. Students may find employment as, business managers, general manager, operation coordinator, logistics clerk, project coordinator, project manager sales manager among other business management positions.

Number of Students per Class

The Bachelor of Science in Technical Management completion program aims to provide quality training and skills development to students, and therefore limits class size to 30 students only.

GRADUATION REQUIREMENTS

To be eligible for graduation, a student must complete all required courses in the BSTM curriculum including the capstone course; maintain a Cumulative Grade Point Average (CGPA) of 2.0; and, successfully pass each course with at least a 2.0.

TIME CODES

The following time code is used on all courses to illustrate the amount of time students will spend in class or lab per course and the subsequent number of credit hours awarded.

48/48/0/3.0

Theory hours per course/ Lab hours per course/ Internship hours per course/ Semester Credit Hours

NOTE: The sequential order of the classes may differ from that included in the program outline

Bachelor of Science in Technical Management (completion program)

#	COURSE	TITLE	HRS.	THEORY/ LAB	PERCENTAGE ONLINE	TWC/ THECB SCU	ACCSC SCH
1	BMGT 3300	Business Practices	48	48/0	100%	3.0	3.0
2	PSYC 3648	Organizational Psychology (Gen Ed)	48	48/0	100%	3.0	3.0
3	BMGT 3327	Management Practices	48	48/0	100%	3.0	3.0
4	HRPO 3301	HR Management	48	48/0	100%	3.0	3.0
5	ENGL 3302	Technical Writing (Gen Ed)	48	48/0	100%	3.0	3.0
6	IBUS 3300	Logistics Management	48	48/0	100%	3.0	3.0
7	MATH 3342	Statistics (Gen Ed)	48	48/0	100%	3.0	3.0
8	ACNT 3525	Accounting for Managers	48	48/0	100%	3.0	3.0
9	MKTG 3311	Sales and Marketing	48	48/0	100%	3.0	3.0
10	PHIL 3302	Ethics (Gen Ed)	48	48/0	100%	3.0	3.0
11	FINA 3315	Business Finance	48	48/0	100%	3.0	3.0
12	LSSY 3310	Principles of Lean Six Sigma	48	48/0	100%	3.0	3.0
13	POLS 3303	American Government and Politics (Gen Ed)	48	48/0	100%	3.0	3.0
14	BMGT 3322	Service Operations Management	48	48/0	100%	3.0	3.0
15	BMGT 4302	HR Development	48	48/0	100%	3.0	3.0
16	BMGT 4301	Project Management	48	48/0	100%	3.0	3.0
17	BMGT 4322	Production/Operation Management	48	48/0	100%	3.0	3.0
18	BCIS 4312	Management Information	48	48/0	100%	3.0	3.0
19	BMGT 4388	Professional Issues	48	48/0	100%	3.0	3.0
20	BMGT 4300	Capstone	48	48/0	100%	3.0	3.0
*A student with an associate degree may transfer up to 60 credits						60	60
Total Hours - Bachelor of Science in Technical Management (completion program)			960	960/0		120	120

Note: Courses with prerequisites are denoted in the course outline with an asterisk ().*

Course 1

BMGT 3300

Business Practices 48/0/3.0

This course is designed to prepare students for the advanced learning experience at Western Technical College. Students will be given, opportunities to develop and strengthen the skills necessary to succeed as students in the College of Business. Topics such as business environment, management, organization, marketing, finance, accounting, and data processing are discussed, among other business topics.

Upon completion of this course, the student will be able to do the following:

1. Demonstrate an understanding of the major functions of business including management, accounting/finance, marketing, investments, and information technology.
2. Present major business concepts in writing and orally using proper business communication techniques.
3. Explain why business ethics is an integral part of every business organization.

Prerequisites: None

COURSE 2

PSYC 3648

Organizational Psychology (General Ed) 48/0/0/3.0 This course will provide the students with a scientific examination of how human cognition, attitudes, and behavior are affected by the context of leaders, co-workers, and organizational policies, structure, culture, and so on. Core topics include motivation, leadership, group and team performance, job attitudes, organizational climate and culture, and organization development.

Upon completion of this course, the student will be able to do the following:

1. Discuss major topics and subspecialties including critical theory and research findings that have defined the field of organizational psychology
2. Discuss the complicated systems of individual and group psychological processes involved in the world of work.
3. Connect principles of organizational psychology to personnel and human resources management within the organization
4. Explore the ways in which individual career choices and work-life success can be improved through the guidelines of organizational psychology

Prerequisites: None

COURSE 3

BMGT 3327

Management Practices 48/0/0/3.0

This course will help students will learn to apply management concepts about decision making, foundations of planning, managing change, effective communication, operations management, and team building.

Upon completion of this course, the student will be able to do the following:

1. Identify management, organizational structure, and operations management
2. Describe globalization's affects on business organizations
3. Apply the foundations of decision making
4. Understand the foundations of human behavior as they apply to motivating and rewarding employees
5. Demonstrate how to manage communication and information

Prerequisites: None

COURSE 4

HRPO 3301

Human Resources Management 48/0/0/3.0

This course provides an in-depth study of personnel management or human resource management. It includes the process of acquiring, training, appraising, and compensating employees and of attending to their labor relations, health and safety, and fairness concerns.

Upon completion of this course, the student will be able to do the following:

1. Explain why human resource management is important to all managers and describe the trends that are influencing it.
2. Summarize the basic equal employment opportunity laws and how each impacts HR functions such as recruitment and selection
3. Explain the basic defenses against discrimination allegations and provide examples of what employers can and cannot legally do with respect to recruitment, selection, and promotion and layoff practices
4. Write job descriptions, including summaries and job functions, using the Internet and traditional methods
5. Explain and give examples of the need for branding in effective recruiting
6. Explain how to do a background check on job candidates
7. List and explain the five steps in the training process and the pros and cons of at least eight performance appraisal methods

Prerequisites: None

COURSE 5

ENGL 3302

Technical Writing (Ged Ed) 48/0/0/3.0

Technical Writing prepares students to design effective technical documents for both written and digital media, with particular emphasis on technical memos, problem-solving and decision-making reports, and organizational, product-support, and technical-information webs. To support these writing tasks, the course provides an introduction to principles of audience analysis, research and documentation, drafting and revision processes, readability and accessibility of written texts, and basic web technologies.

Upon completion of this course, the student will be able to do the following:

1. Design effective technical documents for both print and digital media
2. Understand and use structures of argument appropriate to technical documents, including problem-solving and decision-making structures

3. Understand and use information designs appropriate to technical documents in digital environments
4. Understand and use a range of current web platforms and technologies
5. Write standard English prose and cite sources in conventional forms and formats

Prerequisites: None

COURSE 6

IBUS 3300

Logistics Management 48/0/0/3 This course will have students explore logistics and all of its components. Those include financial logistics, inventory management logistics, warehouse management logistics, packing and materials handling logistics, and transportation logistics. The course will also address the ways in which technology affects the overall environment of logistics, organizational and managerial issues in logistics, the importance of facility location, and transportation infrastructures.

Upon completion of this course, the student will be able to do the following:

1. Describe a supply chain and define supply chain management.
2. Explain the importance of logistic management and supplier partnership
3. Explain the role of demand forecasting.
4. Compare and contrast the various modes of transportation and their impacts on cost
5. Understand the various causes of the bullwhip effect and how they impact process

COURSE 7

MATH 3342

Statistics (General Ed) 48/0/0/3.0

This course covers collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and, confidence intervals.

Upon completion of this course, the student will be able to do the following:

1. Recognize, examine, and interpret the basic principles of describing and presenting data
2. Compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics
3. Explain the role of probability in statistics
4. Examine, analyze, and compare various sampling distributions for both discrete and continuous random variables
5. Describe and compute confidence intervals
6. Solve linear regression and correlation problems

Prerequisites: None

COURSE 8

ACNT 3525

Accounting for Managers 48/0/3.0

This course will help student develop an understanding of accounting principles relating to business operations. The course will concentrate on generally accepted principles, the accounting process, assets, and liabilities. Students will be able to analyze financial statements for decision makers.

Upon completion of this course, the student will be able to do the following:

1. Examine income statements, statements of retained earnings, and balance sheets
2. Explain assets, liabilities, and owner's equity
3. Explain the importance of financial statements
4. Use revenue and expense accounts
5. Understand the General Ledger
6. Explain how financial statements are used to analyze a business
7. Perform a horizontal and vertical analysis of financial statements
8. Calculate and explain financial ratios

Prerequisites: None

COURSE 9

MRKG 3311

Sales and Marketing 48/0/0/3.0

This course involves the systematic planning, implementation, and control of a mix of business activities intended to bring together buyers and sellers. This helps students to understand the interacting business activities designed to plan, price, promote and distribute products and services to present and potential customers. The course incorporates current developments in marketing to acquaint students with the challenges of marketing activities. Students will be introduced to facets of sales management, including estimating sales potential and forecasting sales, manning territories, selecting, training, motivating, supervising and compensating the sales force, and interfacing with other company functions.

Upon completion of this course, the student will be able to do the following:

1. Understand the marketplace and customers and identify the fire core marketplace concepts
2. Describe customer relationship management and identify strategies for creating value for customers and capturing value from customers in return
3. Create business portfolios and develop growth strategies and describe how companies analyze and use marketing information
4. List and define the major types of buying decision behavior and the stages in the buyer decision process
5. Delineate the major steps in designing a customer-driven marketing strategy: market segmentation, targeting, differentiation, and positioning
6. Describe ways in which companies find and develop new-product ideas
7. Identify the three major pricing strategies and discuss the importance of understanding customer-value perceptions, company costs, and competitor strategies when setting prices
8. Explain the need to understand competitors as well as customers through competitor analysis

Prerequisites: None

COURSE 10

PHIL 3302

Ethics (Ged Ed) 48/0/0/3.0

This course introduces students to topics and core problems relating to the moral evaluation of human motivation and action. The course examines the positions of classical philosophers such as Aristotle, Hume, Kant, Mill, and Sartre, as well as contemporary moral problems that relate to human rights, animal rights, and environmental ethics.

Upon completion of this course the student will be able to do the following:

1. Read, explicate, analyze, and evaluate philosophical literature
2. Write and express themselves well about their own ethical positions
3. Think critically and analytically about ethical issues

Prerequisites: None

COURSE 11

FINA 3315

Business Finance 48/0/0/3.0

This course provides an overview of business financial management. Emphasis is on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

Upon completion of this course, students will be able to do the following:

1. Apply the business finance principles that support the overall financial strategy of the organization
2. Apply the standard and accepted accounting principles when reporting, recording, and projecting financial information
3. Explain the structure of financial statements
4. Effectively utilize the time value of money and financial return and risk concepts to conduct professional financial analyses
5. Identify the primary determinants of market interest rates and describe the responses to changes to those rates in terms of supply and demand for loanable funds.

Prerequisites: None

COURSE 12

LSSY 3310

Principles of Lean Six Sigma 48/0/0/3.0/3.0

This upper-level course is designed to introduce the student to Lean Six Sigma, a method that provides organizations tools to improve the capability of their business processes. Increases in performance and decreases in process variation lead to defect reduction and improvement in profits, employee morale, and quality of products or services. The Six Sigma method adopts the approach of advancing the concept and potential of using

Six Sigma tools and methodologies within an organization. Students will develop skills necessary to identify, monitor, and control “profit-eating” practices in a process.

Upon completion of this course, the student will be able to do the following:

1. Explain the role of a Lean Six Sigma Yellow Belt within the organization
2. Participate as a project team member
3. Review process improvements that support the project
4. Understand process concepts and variation
5. Understand Six Sigma metrics

Prerequisites: None

COURSE 13

POLS 3303

American Government and Politics (Ged Ed) 48/0/0/3.0

This course is a survey of contemporary American national, state, and local political processes and institutions with emphasis on the Constitutions of the United States and Texas.

Upon completion of the course, students will be able to do the following:

1. Understand the basic concepts of American democratic thought
2. Analyze the formation, concepts, and components of the United States Constitution
3. Examine the idea of federalism and explain the role of states and the national government
4. Identify America’s major political parties and their core beliefs
5. Understand the electoral process in the United States
6. Describe and explain the organization and purpose of the Legislative, Executive, and Judicial branches of government
7. Understand the role and structure of the federal bureaucracy
8. Describe the relationship between the state of Texas and the federal government
9. Compare the Texas state constitution with the national Constitution

Prerequisites: None

COURSE 14

BMGT 3322

Service Operation Management 48/0/0/3.0

This course examines strategies for achieving operational competitiveness in service businesses in a global service economy. Learners will be introduced to strategic and tactical aspects of managing the operations, marketing, and human resources functions to control resources and deliver services to customers. Learners will explore challenges faced by service operations managers, customer expectations and perceptions.

Upon completion of this course, the student will be able to do the following:

1. Create distinctive and sustainable service strategies
2. Execute service models that enable customers, employees, and owners to thrive simultaneously
3. Productively leverage data and analytics
4. Adapt to evolving customer needs and changing competitive landscapes

Prerequisites: None

COURSE 15

BMGT 4302

HR Management Development 48/0/0/3.0

This upper-level course is concerned with the development of knowledge and skills needed for productive and satisfying work that is critical to organizational success. Understanding these skills will help students provide vital services for their employees, employers, corporations and society.

Upon completion of the course students will be able to do the following:

1. Explain Human Resource Development (HRD) and the need for HRD
2. Design, implement, and evaluate HRD programs
3. Coach employees and manage their performance
4. Provide employee counseling, well-being, and wellness
5. Guide employees through career management and development

Prerequisites: None

COURSE 17

BMGT 4322

Production/Operation Management 48/0/3.0

This course examines the functional area of production and operations management in the manufacturing industry. Topics include decision-making, capacity planning, aggregate planning, forecasting, inventory management, distribution planning, materials requirements planning (MRP), project management, and quality control.

Upon completion of this course, students will be able to do the following:

1. Identify product and process designs
2. Implement productivity improvement and explain Quality Management
3. Students will understand new product development and apply forecasting methods and capacity planning measures

Prerequisites: None

COURSE 18

BCIS 4312

Management Information Systems 48/0/3.0

This course explores current information systems concepts and technologies. Students learn how information systems give a business or organization a competitive edge by providing technologies that help managers plan strategies, control events, and make decisions. The exploration includes topics such as hardware and software components of an information system, e-business concepts and implementation, and a survey of common information systems used today.

Upon completion of this course, students will be able to do the following:

1. Explain why information systems are important for business and management
2. Evaluate the role of the major types of information systems in a business environment and their relationship to one another

3. Assess the impact of the internet on business electronic commerce and electronic business
4. Identify the major management challenges to building and using information systems and be able to find appropriate solutions to those challenges
5. Describe an IT infrastructure and its components
6. Describe the core activities in the systems development process
7. Cultivate skills and experience in the development and implementation of information systems projects

Prerequisites: None

COURSE 19

BMGT 4388

Professional issues 48/0/3.0

This course will introduce students to a variety of ethical frameworks and critical thinking skills and ways to use them as analytical tools to consider a variety of social, ethical, and professional issues that have arisen or that take on different forms in business management. Students will have the opportunity to improve their ethical analysis, discussion, leadership, speaking, and writing skills.

Upon completion of this course, students will be able to do the following:

1. Articulate their responsibilities as business professionals
2. Apply ethical frameworks and critical thinking skills to management-related scenarios
3. Create, analyze, and critique arguments surrounding social and ethical aspects of management
4. Discuss concerns about the social and ethical aspects of management
5. Develop strategies for decision making for management ethics issues

Prerequisites: None

BMGT 4300

Capstone 48/0/3.0

This course will have students develop a detailed project proposal and complete a final capstone project linking the areas of study of the student's BS degree plan with intellectual interests. The final written project will consist of research, reviews, and analysis targeted towards a specified audience. A presentation and submission of the project is required.

Upon completion of this course, the student will be able to:

1. Understand the strategy of making process, and their Capstone will identify stakeholders, the mission, governance, and business ethics.
2. Students will conduct an external analysis (the identification of opportunities and threats), building competitive advantage.
3. Propose Strategic Change (implementing strategies to build and develop a company).

Prerequisites: All preceding courses

MASTER DEGREE

MASTER OF BUSINESS ADMINISTRATION

Offered 100% online



Individuals pictured above are actors, students and/or employees of WTC

CAREER OPPORTUNITIES IN BUSINESS ADMINISTRATION

The Master of Business Administration will help students learn to cultivate a variety of skills and assets needed by businesses. Managers are responsible for controlling or administering all or part of a company and its workers. Management of Companies and Enterprises held about 147,000 jobs in 2019. Employment growth is projected to increase by 29.7% in Texas.

Labor Market Information (2016 thru 2026 Projections)	Texas	National
Labor Market Information Employment 2019	147,000	2,376,400
Projected Employment 2026	150,397	2,541,400
Absolute Change 2016-2026	34,438	165,000
Percent Change 2016-2026	22.89%	7.0%
Average Hourly Wage 2016	\$51.05	\$51.79
Average Openings per year due to Replacement		
Average Openings per year due to Growth		
Source: The Labor Market & Career Information Department (LMCI) of the Texas Workforce Commission www.lmci.state.tx.us		

Online Program/Courses

Students who enroll in the Master of Business Administration program will receive training through a fully online delivery system. Western Tech’s Learning Management System (Canvas) provides both synchronous and asynchronous tools used for online delivery. The online content of the course is covered by using a variety of online educational activities such as discussion boards, chat sessions, conference sessions, case studies, lab simulations, and pre-recorded presentations. The online classes are organized for the students to have the flexibility to complete the online classroom activities based on their personal/work schedules.

Participation in online classes is vital to successful program completion. Students will provide their own computer that meets the requirements of the online program. Students must have Internet access to fulfill course requirements and succeed in classes. In addition, students must have a minimum level of comfort with technology to access course work online, participate in discussions and collaborate with peers and Instructor.

MISSION AND OBJECTIVES

Mission Statement

Develop critical thinkers, problem solvers and skilled leaders to transform the business world.

Educational Objectives

The Master of Business Administration program will help students learn to cultivate a variety of skills and assets needed by business leaders and managers. The program will provide students with the knowledge and technical skills needed for positions in business which may also provide students with opportunities for career advancement. The program aims to develop leaders who synthesize and communicate ideas effectively and analyze and integrate innovative and credible solutions to organizational problems. Possible positions for graduates include but not limited to Management, Finance, Accountant and Auditors, General and operations managers, Sales representative and manager, Financial Analysts, and Human resources.

CLASS SIZE

The MBA program aims to provide quality training and skills development to students, and therefore limits class size to 20 students.

GRADUATION REQUIREMENTS

To be eligible for graduation, a student must complete all required courses in the MBA curriculum including the capstone course; maintain a Cumulative Grade Point Average (CGPA) of 3.0; and successfully pass each course with at least a 2.0 and must meet general graduation requirements.

TECHNICAL STANDARDS AND ESSENTIAL FUNCTIONS

Students entering this program must be able to meet these standards and perform essential functions with or without reasonable accommodations to be successful in completing this program satisfactorily.

1. The ability to understand course materials and maintain a certain grade/performance level that meets the set academic requirements.
2. The ability to maintain a professional demeanor always and interact professionally with fellow students, employees, administration, and faculty.
3. The ability to listen, understand, and communicate ideas presented through verbal and written communication.
4. The ability to work with others in a team environment.
5. The ability to respect instructor, and classmates.
6. The ability to utilize computers and perform basic computer functions with programs such as Word, Outlook, and Excel.
7. Must be able to utilize E-Books.

MASTER OF BUSINESS ADMINISTRATION

COURSES 1-12

576 CLOCK HOURS

36.0 SEMESTER CREDIT HOURS

NOTE: The sequential order of the classes may differ from that included in the program outline.

MASTER OF BUSINESS ADMINISTRATION

#	Course	Title	Hrs.	Theory/ Lab	% Online	Semester Credit Hours
1	MGMT 5301	Leadership	48	48/0	100%	3.0
2	ACCT 5311	Accounting for Decision Makers	48	48/0	100%	3.0
3	MGMT 5309	Data-Driven Decision Making	48	48/0	100%	3.0
4	MRKG 5401	Marketing Management	48	48/0	100%	3.0
5	ECON 5360	Global Economics for Managers	48	48/0	100%	3.0
6	MGMT 5346	Operations Management	48	48/0	100%	3.0
7	FINA 5394	Managerial Finance	48	48/0	100%	3.0
8	MGMT 5336	Managing Human Capital	48	48/0	100%	3.0
9	MGMT 5325	Strategic Management	48	48/0	100%	3.0
10	MGMT 5394	Ethical Leadership	48	48/0	100%	3.0
11	MGMT 5303	Applied Business Research & Statistics	48	48/0	100%	3.0
12	MGMT 5351	Capstone	48	48/0	100%	3.0
Total Hours and Credits – Master of Business Administration			576	576/0	100%	36.0

MBA COURSE DESCRIPTIONS

MGMT5301 Leadership 48/0/3.0
 This course provides students with advanced concepts of leadership, and how the science of organizational behavior contributes to effective leaders and managers.

Upon completion of this course, students will be able to explain aspects of managing and leading organizations, explain the behaviors and traits of both effective managers and leaders, and identify relevant current issues in management and leadership. Students will also apply personal behaviors and tendencies that impact their leadership style and demonstrate an ability to motivate individuals and groups to achieve organizational goals.

ACCT5311 Accounting for Decision Makers 48/0/3.0
 This course provides students with advanced accounting knowledge and skills to assess and manage a business. Topics include the accounting cycle, financial statements, taxes, and budgeting. This course will improve students' ability to understand reports and use accounting information to plan and make sound business decisions.

Upon completion of this course, students will be able to explain and analyze actual annual reports and managerial reports, create periodic public filing of financial statements by firms, other corporate disclosures, and analysts' reports, and explain the concepts that underlie the preparation of general-purpose cost reports. Students will also apply various management accounting techniques to analyze decisions faced by management and demonstrate an understanding of the role and preparation of budgets.

MGMT5309 Data-Driven Decision Making 48/0/3.0
 This course presents critical problem-solving methodologies, including field research and data collection methods that enhance organizational performance. Topics include quantitative analysis, statistical and quality tools. Students will improve their ability to use data to make informed decisions.

Upon completion of this course, students will be able to explain and apply analytics literacy for modern managers and explain the principles of core and state-of-the-art analytics models, when to use each, and how to best communicate their impact on recommendations and decisions, and structure complex business problems to leverage analytics when reaching a sound decision. Students will be required to develop innovative frameworks for leveraging data and information to maximize the impact of analytics techniques on the quality of your decision-making and ultimately on their business, and explain available opportunities in processes, strategies, incentive systems, and marketplace tactics to improve efficiencies, redirect resources, or compete more effectively, and make the decisions to implement strategies designed to address those opportunities.

MRKG5401 **Marketing Management** **48/0/3.0**

Management of the marketing function, market environmental analysis, and marketing planning, strategy, and control. The course examines the marketing process, marketing research, product development innovation and diffusion, pricing strategy, distribution value drain, advertising and promotion, and strategic marketing issues. Emphasis is placed on case study analysis and current academic research with a marketing plan as a significant curriculum component.

Upon completion of this course, students will be able to analyze the role of marketing within the firm and society and exercise analytical, communication, and presentation skills, demonstrate ability to comprehend the various aspects of a company's marketing strategy as well as the forces that influence such strategy. Students will also be required to demonstrate ability to create a detailed marketing plan and implementation schedule for a company and demonstrate that (a) they can communicate effectively among team members to develop a team-prepared written project and (b) they can make a persuasive, effective presentation of their project.

ECON5360 **Global Economics for Managers** **48/0/3.0**

This course examines how economic tools, techniques, and indicators can be used for solving organizational problems related to competitiveness, productivity, and growth. Students will explore the management implications of a variety of economic concepts and effective strategies to make decisions within a global context.

Upon completion of this course, students will be able to develop a framework for analyzing both opportunities and risks in a global economic environment, evaluate techniques to learn about or increase demand and measure the tradeoffs and suitable applications of each approach, and model scenarios and analyze the impact of market changes by constructing supply and demand curves for individuals and markets. Students will be required to identify value creation and decompose its distribution to illustrate how trade occurs and examine the competitive landscape by differentiating long- and short-run market outcomes and forces.

MGMT5346 **Operations Management** **48/0/3.0**

Operations Management examines managerial concepts and strategies relating to the management of operations in both manufacturing and service environments. Emphasis is placed on methods to streamline and drive in efficiencies out of a firm's internal processes to build a highly efficient organization. The course also focuses on external processes by examining ways to achieve greater supply chain integration with suppliers and customers. Quantitative and qualitative methods and tools are introduced and applied.

Upon completion of this course, students will be able to explain production and operations and management function in any organization; identify various production and operations design decisions and how they relate to the overall strategies of organizations, and explain the relationship of the various planning practices of capacity planning, aggregate planning, project planning and scheduling. Students will also be able to explain the roles of inventories and managing inventories in various demand settings

FINA5394 **Managerial Finance** **48/0/3.0**
This course discusses advanced elements of business financial decisions, including financial forecasting and development of proformas, management of working capital, capital budgeting, capital structure, and raising funds in capital markets.

Upon completion of this course, students will be able to develop an understanding of the global aspects of business for managers, explain and calculate business financial decisions and forecasting for managers, and demonstrate competence in finance such as working capital, capital budgeting, capital structure, and raising funds in capital markets.

MGMT5336 **Managing Human Capital** **48/0/3.0**
This course focuses on advanced strategies and tools that managers use to maximize employee contribution and create organizational excellence. The student will learn talent management strategies to motivate and develop employees as well as best practices to manage performance for added value.

Upon completion of this course, the students will critically construct reasoned arguments using skills appropriate to the context, such as deductive reasoning, scientific inquiry, quantitative reasoning, aesthetic judgment, or critical examination of form, style, content and meaning. They will explain a local and global context, with diverse human beliefs, abilities, experiences, identities, or cultures, acquire essential knowledge and skills to make well-reasoned judgments personally, professionally, within the business discipline of human resource management and people management in general. Lastly, they will define an organizational structure which drives productivity.

MGMT5325 **Strategic Management** **48/0/3.0**
This course focuses definition, formulation, and execution of strategy within organizations. There is specific emphasis on the role of innovation and leadership in strategic management and an organization's ability to achieve and sustain competitive advantage.

Upon completion of this course, students will be able to analyze the main structural features of an industry and develop strategies that position the firm most favorably in relation to competition and influence industry structure to enhance industry attractiveness. Students will appraise the resources and capabilities of the firm in terms of their ability to confer sustainable competitive advantage and formulate strategies that leverage a firm's core competencies. Students will be able to explain the concept of competitive advantage and its sources and the ability to recognize it in real-world scenarios; analyze dynamics in competitive rivalry including competitive action and response, first-mover advantage, co-opetition and winner-take-all, and explain the advantages of vertical integration and outsourcing and the factors that determine the relative efficiency of each.

MGMT5394 **Ethical Leadership** **48/0/3.0**
This course considers leadership dilemmas that can arise when the individual's values conflict with those of the organization, or when a situation requires decisions with conflicting value sets. Within this course, students use case studies, their own experiences, and current events to examine actions leaders have taken and consequences faced when confronted with ethical dilemmas. From the exercises and discussions, students have an opportunity to develop a personal model for ethical leadership.

Upon completion of this course, students will be able to explain ethical thinking and problem solving through various philosophical and behavioral views. This is accomplished through observations on how individuals behave and think when facing ethical dilemmas, identify why ethics are vitally important in every society, and analyze leaders' choices and actions. Students will be required to analyze ethical issues in organizational leadership: external and internal pressures, and organizational choices and implement the leadership concepts in their decisions and projects through developing a personal model of ethical leadership.

MGMT5303

Applied Business Research & Statistics

48/0/3.0

This course prepares students to apply statistics and probability concepts to complex business decisions. Students learn important criterion for developing effective research questions, including the creation of appropriate sampling populations and instruments. Other topics include descriptive statistics, probability concepts, confidence intervals, sampling designs, data collection, and data analysis--including parametric and nonparametric tests of hypothesis and regression analysis.

Upon completion of this course, students will be able to explain the concepts of descriptive statistics and use sample statistics to make inferences about population characteristics, recognize different models of statistical processes such as hypothesis testing and linear and multiple regression, etc., and explain statistical processes and choose which process to use for data analysis applications. Students will learn to interpret statistical results as a basis for decision making and communicate your interpretation of the results of statistical analysis logically and persuasively in speaking and writing and collaborate effectively to use statistical analysis to address business challenges.

MGMT5351

Capstone

48/0/3.0

This course is the culminating assessment of the MBA curriculum and covers all previous assessment topics. Students will work on a case and develop a solution to a business problem. In addition, the student will work on a case to simulate running a business. One unique aspect of the simulation is that there are scheduled dates each week for simulation decisions.

Upon completion of this course, students will be able to demonstrate scholarship and professional competence through effective business-style oral and written communication; compare research collected about industry best practices and the company's current situation, organize, and interpret to create a plan of action. Students will be able to apply appropriate models from the MBA program while analyzing the project objectives to create organization-specific and meaningful observations and conclusions and apply critical thinking and problem-solving skills in the diagnosis and recommendation of solutions for the targeted organization problem or opportunity. Lastly, students will use integrated knowledge across business disciplines to define, analyze and solve business problem.

GENERAL EDUCATION COURSES

MATH COURSES

MATH 1312 **ALGEBRA** **48/0/3.0**
Study relations and functions, including polynomial, rational, exponential, logarithmic, and special functions. Other topics include systems of equations and its applications. Upon completion of this course, be able to: use scientific notation; perform operations on and factor polynomials; graph, solve and apply linear and quadratic equations; solve systems of linear equations; and analyze functions.

MATH 1314 **COLLEGE ALGEBRA AND TRIGONOMETRY** **48/0/3.0**
Study relations and functions, including polynomial, rational, exponential, logarithmic, and special functions. Other topics include systems of equations, trigonometric functions, and their applications. Upon completion of this course, be able to: use scientific notation; perform operations on and factor polynomials; graph, solve and apply linear and quadratic equations; solve systems of linear equations and analyze functions; graph and analyze trigonometric functions.

MATH 1324 **MATHEMATICS FOR BUSINESS & SOCIAL SCIENCES** **48/0/3.0**
This course explores the rich concepts and applications for students in business, management, natural and social sciences. Students will learn to apply mathematics concepts involving linear equations, quadratic equations, functions and graphs, inequalities, simple and compound interest, annuities, matrices, and probabilities. Upon completion of this course, be able to: set up and solve systems of equations using matrix methods; solve linear applications using geometric and simplex methods; compute probabilities; analyze data using basic principles of statistics; and, solve financial applications involving simple and compound interest and annuities Prerequisites: MATH 1312 Algebra

MATH 1342 **STATISTICS** **48/0/3.0**
Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. Upon completion of this course, be able to: explain the use of data collection and statistics as tools to reach reasonable conclusions; recognize, examine and interpret the basic principles of describing and presenting data; examine, analyze and compare various sampling distributions for both discrete and continuous random variables, describe and compute confidence intervals, perform hypothesis testing using statistical methods. Prerequisites: MATH 1324 Mathematics for Business & Social Sciences

SCIENCE COURSES

BIOL 1401 **ANATOMY & PHYSIOLOGY I** **45/30/4.0**
Develop a critical understanding of anatomical terminology, anatomical structure, and function of the muscular, endocrine, cardiovascular, immune & lymphatic, digestive, respiratory, urinary, nervous, integumentary, reproduction and development systems. Upon completion of this course, be able to: identify and describe the anatomical terms, directions, planes, axis and the cavities of the human body; describe basic organization of the human body and its structural levels; describe the atomic, molecular and cellular structure of human organs; identify the organs of each system, define function and describe their locations and relationship of its parts; describe human body homeostasis and normal lab values.

BIOL 2402 **ANATOMY & PHYSIOLOGY II** **45/30/4.0**
Anatomy and physiology - II course is the second part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous, and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides a hands-on learning experience for

exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses. Upon completion of this course, be able to: identify and describe the anatomical terms, directions, planes, axis and the cavities of the human body; describe basic organization of the human body and its structural levels; describe the atomic, molecular and cellular structure of human organs; identify the organs of each system, define function and describe their locations and relationship of its parts; describe human body homeostasis and normal lab values.

BIOL 2421 **MICROBIOLOGY** **45/30/4.0**
Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Laboratory activities will reinforce principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Upon completion of this course, be able to: understand and explain microbiological processes in detail; appreciate the history, scope, and trends in microbiology; explain the principles and methods of diagnosing disease and epidemiology; and, conduct laboratory practices that include aseptic techniques and appropriate disposal or biological/biohazardous waste.

BIOL 1360 **INTRODUCTION TO HUMAN NUTRITION** **45/0/3.0**
This course covers principles of Human Nutrition that provides an integrated overview of the physiological requirements and functions of protein, energy, and the major vitamins and minerals that are determinants of health and diseases in human populations. Upon completion of this course, be able to: describe how to properly design individualized eating plans; explain the nutritional differences of food and how it affects the body; describe the factors associated with weight control; describe how nutrition and lifestyle choices impact the life cycle before and during pregnancy, during lactation and infancy, during childhood and adolescence, and through adulthood and aging; and explain the impact of nutrition and lifestyle choices on the immune system and on diseases.

CHEM 1470 **CHEMISTRY** **45/30/4.0**
This introductory to chemistry course covers an introduction to the basic concepts of chemistry such as systematic treatment of fundamental chemical and physical principles and their applications to the properties and transformations of materials, including the concept of energy and its uses, gas laws, kinetic molecular theory, laws of chemical combination, atomic and molecular structure, periodic classification of the elements, and chemical bonding. Upon completion of this course, be able to: describe fundamental chemical concepts and principles; solve a wide variety of integrative chemistry problems that connect ideas across topics; and, design, conduct, and analyze experiments pertaining to stoichiometry, thermochemistry, and spectrometry while developing fundamental safety, measurement, and sample isolation techniques.

GEOL 1301 **GEOLOGY** **48/0/3.0**
This course introduces students to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Upon completion of this course, be able to: describe how the scientific method has led to our current understanding of Earth's structure and processes; interpret the origin and distribution of minerals, rocks and geologic resources; associate how surface processes are driven by interactions among Earth's systems (e.g., the geosphere, hydrosphere, biosphere, and atmosphere); identify and describe the internal structure and dynamics of Earth; and, appreciate the interactions of humans with Earth (e.g., resource development or hazard assessment).

PATHO 2330 **HUMAN PATHOPHYSIOLOGY** **45/0/3.0**
This course provides an in-depth study of human pathological processes and their effects on homeostasis. Content builds on basic anatomy and physiology, microbiology, and chemistry content obtained from earlier courses.

Course topics include the etiology, physical signs and symptoms, prognosis, and complications of commonly occurring diseases and their management. Upon completion of this course, be able to: utilize medical terminology as it applies to the pathophysiologic basis for alterations in health; demonstrate knowledge of the normal mechanisms of both the normal and altered human body; explain signs and symptoms of diseases and their relationship to specific pathophysiological changes in the human body; describe the relationships between basic pathophysiology and selected diagnostic and therapeutic modalities; and explain the basis for actions that could be taken to avoid pathophysiologic states or conditions or to reduce the risks of occurrence of pathophysiologic states or conditions.

PHYS 1401 **COLLEGE PHYSICS I** **32/64/4.0**
The student will learn the science of matter and energy and the interactions between them through traditional fields dimensions; Newton's laws; energy; and basics of electricity and electromagnetism. Includes Lab. Upon completion of this course, be able to: Understand units and conversions; Explain one and two- dimensional motion; Apply the principles of Newton's Laws; Analyze equations of force, work, and energy and apply them; Evaluate simple electric circuits using Ohm's Law.

ENGLISH COURSES

ENGL 1301 **COMPOSITION I** **48/0/3.0**
The student, focusing on the academic essay, will study the principles and techniques of expository and persuasive composition, including drafting, revising, and editing in paragraphs and essays and will produce a resume. Upon completion of this course, be able to: Use paragraphs as building blocks of essays; Explain the means of persuasion and strategies for evaluating evidence; Demonstrate technical writing skills and concise written communication; Distinguish among academic writing, writing for work, and informal writing; Write an expository and a persuasive essay.

ENGL 1302 **RESEARCH ANALYSIS** **48/0/3.0**
Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Upon completion of this course, be able to: demonstrate knowledge of individual and collaborative research processes; develop ideas and synthesize primary and secondary sources within focused academic arguments, including one or more research-based essays; analyze, interpret, and evaluate a variety of texts for the ethical and logical uses of evidence; write in a style that clearly communicates meaning, builds credibility, and inspires belief or action; and apply the conventions of style manuals for specific academic disciplines (e.g., APA, CMS, MLA, etc.)

COMMUNICATION COURSES

SCOM 1315 **FUNDAMENTALS OF HUMAN COMMUNICATION** **48/0/3.0**
Study of human communication as a process. Overview of the principals of interpersonal, small group and presentation skills essential to effective social, business, and professional interaction. Emphasis on examining the role of self-concept, perception, culture, verbal, nonverbal, and written communication. Applying effective writing principles and strategies for understanding and presenting information for various purposes and audiences. Upon completion of this course, be able to: identify the components of communication and its barriers; analyze the audience and describe the criteria for choosing communication media; communicate ethically and avoid potential legal consequences of communication; and, plan, prepare, and deliver a presentation.

SPCH 1315 **PUBLIC SPEAKING** **48/0/3.0**
This course develops the ability to speak before audiences. Students will plan and deliver several types of speeches appropriate to occasion and audience. Clarity of purpose and organization will be emphasized. Students will

practice critical thinking and listening skills and be able to identify the means of persuasion. Upon completion of this course, students will be able to do the following: identify the basic elements of the speech process; design messages appropriate to topic, audience, and setting; make best use of strategies, verbal and non-verbal, to assure clear, accurate, and engaging communication; maximize use of language and body for conveying information and convincing argument; and analyze speeches critically for both content and delivery.

SOCIAL SCIENCE COURSES

HIST 1301 **UNITED STATES HISTORY I** **48/0/3.0**
A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. Upon completion of this course, be able to: create an argument through the use of historical evidence; analyze and interpret primary and secondary sources; analyze the effects of historical, social, political, economic, cultural, and global forces on this period of United States history.

HIST 1302 **UNITED STATES HISTORY II** **48/0/3.0**
A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II include American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. Upon completion of this course, be able to: create an argument through the use of historical evidence; analyze and interpret primary and secondary sources; analyze the effects of historical, social, political, economic, cultural, and global forces on this period of United States history.

PHIL 1301 **INTRODUCTION TO PHILOSOPHY** **48/0/3.0**
A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications. Upon completion of this course, be able to: read, analyze, and critique philosophical texts; demonstrate knowledge of key concepts, major arguments, problems, and terminology in philosophy; present logically persuasive arguments both orally and in writing, demonstrate critical thinking skills in evaluation and application of philosophical concepts to various aspects of life, and evaluate the personal and social responsibilities of living in a diverse world.

PHIL2225 **MEDICAL ETHICS & ISSUES** **30/0/2.0**
This course will explore the major ethical issues confronting the practices of medicine and biomedical science. We will become familiar with legal and institutional positions, consider and debate opposing arguments on the various topics, and examine relevant case studies.

POLS 3389 **POLICY & POLITICS IN HEALTHCARE** **45/0/3.0**
This course provides an in-depth orientation to the actors, processes, and institutions that make up the political system in Texas, with a strong emphasis on the development of applied knowledge. Instructional material focuses on how politics in Texas shapes the operation of Texas political institutions, with attention to the interplay between public opinion, conflict among elites, and the policy environment in the state. Upon completion of this course, be able to: explain the history, goals, purpose, components, and dynamics of the health care system in the U.S.; discuss the connections and interconnections between the components of the health care system; and, use the facts and

perspectives gained through this class to participate intelligently in decision-making about health care, both in the public sphere and for oneself.

PSYC 2301 **GENERAL PSYCHOLOGY** **48/0/3.0**
Be introduced to the basic principles of psychology and apply those principles to a field of knowledge or activity. Upon completion of this course, be able to: explain the basic psychological concepts; appreciate the theorists' explanations of human behavior; describe the therapeutic approaches; identify psychological disorders, their causes and treatments; and, apply psychological principles to understanding and working with co-workers and clients.

PSYC 1380 **LIFE SPAN HUMAN DEVELOPMENT** **45/0/3.0**
This course introduces the study of human growth and development. Emphasis is on the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span and apply this knowledge to their specific field of study. Upon completion of this course, be able to: demonstrate an understanding of the theories, methods and research findings of life-span psychology; describe how people change in terms of their cognitive, physical, social & emotional development; compare the major developmental theorists and discuss what each brings to or adds to the study of human development; think critically about each of the developmental theories and research demonstrated in written assignments; apply basic principles of developmental psychology to one's own life experiences.

SOCI 1358 **SOCIOLOGY** **45/0/3.0**
This course will focus on the basic concepts in Sociology and an analysis of culture, socialization, stratification, social organization, class, social interaction, social change, and conflict. Upon completion of this course, be able to: understand basic knowledge of sociological theory and concepts; apply knowledge of sociology to a range of issues and real-life contexts; explain key aspects of cultural capital and how it operates to perpetuate inequality, and apply cultural capital and symbolic boundaries to the workings of major social institutions.

POLICIES AND STANDARDS

Student Orientation

Prior to beginning classes, all new students participate in an orientation program. Orientation delivery may be online or on ground, depending on the program. This is discussed at the time of enrollment. Orientation facilitates a successful transition into WTC; therefore, attendance for new students is imperative regardless of prior college experience. At orientation, students are acquainted with their peers, campus, administrative staff, and faculty. Administrative departments explain ways in which they assist students and clarify students' rights and responsibilities.

Attendance Policies

To better prepare students for employment, by developing good habits, it is essential that absenteeism and tardiness be kept to an absolute minimum. WTC strives to enforce attendance policies which require students to attend class regularly and punctually. All absences and tardiness are recorded regardless of the reason.

The College will evaluate each student's attendance at the end of each term. In cases of excessive absenteeism or tardiness, the College may take disciplinary action prior to the end of the term, however, students will be afforded reasonable opportunities in which to bring his/her overall attendance to the minimum benchmark of 85% within the term. Students who miss more than 15% of their scheduled classes after the first term will be placed on attendance probation for the following term.

A student missing over 15% of the scheduled class days during the probationary period may be terminated from the College. Student is at risk of being terminated when his/her absences exceed 15% of the total cumulative hours in the program. Authorized Leaves of Absence (LOA) will not be included in the attendance percentage of a term.

As mandated by the Texas Workforce Commission, the school's regulating body, consecutive absences (without an approved leave of absence) cannot exceed ten (10) consecutive days or more than 20% (25% for the Commercial Driver Training program) of the scheduled course for the program, whichever is less. To do so may result in the student being processed as a drop from the program. The Campus President may exercise an exception to this policy if the absences exceed 10 days due to extenuating circumstances. Any student who is terminated for unsatisfactory attendance may not re-enter before the start of the next grading period and will only be readmitted if the factor(s) contributing to the poor attendance has been resolved to the College's satisfaction. A student who was terminated for violating the attendance policy and that is readmitted will be placed on attendance probation for at least one term.

NOTE: College holidays and scheduled annual breaks are not considered days of absence. However, the Veterans Administration regulations require that all scheduled school breaks be reported.

Make-up Work & Hours

At its discretion, the College may allow a student, who for reasons acceptable to the College, is experiencing non-repetitive, extreme attendance problems, to make up essential coursework previously missed due to absenteeism. It is the student's responsibility to contact his/her department program director and instructor to arrange for any make-up work & hours. No more than 5% of the total program clock hours can be made up. If a student misses a significant number of hours in a course, the instructor may determine that it is in the best interest of the student to repeat the entire course.

Instructors are required to advise students of their current attendance as well as academic status in school and generate advising forms for any academic or attendance issues that occur. If make-up hours are required, the instructor and PD will ensure that all make-up hours are completed before the end of each term.

All make-up work & hours must be approved by the department director and must be completed within two weeks of the end of the grading period during which the absence occurred.

Tardy Policy

Students will be deducted time to the nearest quarter for coming in late to class and from breaks and for leaving early for the day. If a student arrives any time after 8:00 a.m., but before 8:15 a.m., they will be charged 15 minutes. If the student arrives after 8:15 but before 8:30 a.m., they will be charged for 30 minutes, and so on. The same applies when a student leaves class for any reason. Refer to your program syllabus for the program policy.

Students missing 30% of an entire course may be required to retake the course in its entirety. It is important to arrive to school on time, and not leave class early.

Student Academic Progress (SAP)

Below is a list of symbols used by the College to document attendance for students. Attendance is recorded by the instructor and posted daily:

P	Present
A	Absent
P#	Present Number of hours (Ex: P3)
M	Make Up Hours
I	Incomplete
W	Withdrawn
WF	Withdrawn Failed

Academic Grading Scale

Numeric Scale		Letter
98 – 100	4.0	A+
94 – 97.9	4.0	A
90 – 93.9	4.0	A-
88 – 89.9	3.75	B+
84 – 87.9	3.5	B
80 – 83.9	3.0	B-
78 – 79.9	2.75	C+
74 – 77.9	2.5	C
70 – 73.9	2.0	C-
68 – 69.9	1.75	D+
64 – 67.9	1.5	D
60 – 63.9	1.0	D-
BELOW 60 0.0		F

BSN Program Academic Grading Scale

Numeric Scale		Letter
98 -100	4.0	A+
94 - 97.9	4.0	A
90 - 93.9	4.0	A-
84 – 89.9	3.5	B+
74.5 – 83.9	3.0	B
Below 74.5	0	F

Satisfactory Progress

Upon completion of each course, all students will be able to access their progress report through the student portal. Students must achieve and maintain a CUMULATIVE grade point average (GPA) of 2.0 in all courses, and all course work must be satisfactorily completed to be eligible for graduation.

For BSN, students must achieve and maintain a CUMULATIVE grade point average of 3.0. For PTA students must achieve and maintain a minimum cumulative GPA and minimum course grade of 2.75 (or a 78% numeric

grade) in all core courses. Also, each individual written examination and practical examination must be completed at a level of 74% or greater.

The minimum requirement for a 200-hour program is:

A cumulative grade average of at least 70% is required for the student to receive the course certificate. Students will receive written notification of their progress at the midpoint and end of each two-week evaluation period. A student who is not making satisfactory progress at the midpoint will be placed on academic probation for the remainder of the progress evaluation period. The school's Administrative Specialist will advise the student placed on probation prior to the student returning to class. The date, action taken, and terms of probation will be clearly indicated in the student's permanent file. If the student does not achieve satisfactory progress by the end of the probationary period, the student's enrollment will be terminated.

Unsatisfactory Progress:

For the Commercial Driver Training program, which is a 200-hour program, the school shall record a student's grades at the midpoint and end of each progress evaluation period. A student not making satisfactory progress at the midpoint shall be placed on academic probation for the remainder of the progress evaluation period. If the student does not achieve satisfactory progress by the end of the probationary period, the student's enrollment shall be terminated.

For programs approved on a credit hour basis with course time more than 200 hours, the school shall evaluate progress at the midpoint and end of the term which means "course" for certificate programs, and "module/semester" for degree programs. The following shall apply.

1. The school shall place a student making unsatisfactory progress for the program at the end of a progress evaluation period (end of each course for Certificate programs, and at the end of each module/semester for degree programs) on academic probation for the next progress evaluation period. If the student on academic probation achieves satisfactory progress for the subsequent progress evaluation period but does not achieve the required grades to meet overall satisfactory progress for the program, the student may be continued on academic probation for one more progress evaluation period.
2. If a student on academic probation fails to achieve satisfactory progress for the first probationary progress evaluation period, the student's enrollment shall be terminated.
3. The enrollment of a student who fails to achieve overall satisfactory progress for the program at the end of two successive probationary progress evaluation periods shall be terminated. A student whose enrollment was terminated for unsatisfactory progress may be re-entered after a minimum of one (1) grading period. A student who returns after the enrollment was terminated for unsatisfactory progress shall be placed on academic probation for the next term. Should the student fail the following term, they will be dropped from the program.

Probation

Students falling below minimum attendance and academic requirements, will have the length of the term to coordinate with their instructor to improve their grades and attendance to meet the minimum standards. Students that fail to meet the minimum requirements will be placed on attendance and/or academic probation. If students still do not meet the minimum requirements after their probationary period ends, they will be dropped from their program.

Suspension

A student may be suspended due to a violation of any WTC policies or standards. Final determinations on suspensions are determined by the Campus President and Program Director. There is a maximum time frame of three (3) days per suspension.

Leaves of Absence (LOA)

A leave of absence (LOA) is a temporary interruption in a student's program of study and should only be requested in case of emergencies and extenuating circumstances including but not limited to medical reasons, jury duty, military service, incarceration, or death of a family member.

1. To request an LOA, the student must submit a written request via hard copy, text message, or through email, to an Administrative Specialist or Student Services Coordinator. The written request should include the reason for the LOA and the amount of time needed. All LOA's must have prior approval by the student's Program Director and Campus President.
2. In the rare event the student is unable to submit a letter requesting the leave, the student must verbally communicate with his/her Program Director, Financial Aid Director or Campus President, and follow-up with electronic communication (text or email).
3. Leaves of absence shall be reasonable in duration, preferably not to exceed 30 calendar days. WTC highly discourages any requests for an additional leave of absence, however, WTC may grant only one (1) more additional LOA within a 12-month period, in the event that an unforeseen circumstance arises, such as medical reasons, military service, or jury duty. The LOA, together with any additional leaves of absence, must not exceed a total of 180 days in any 12-month period.
4. Students on a LOA remain in Active Status; therefore, they are still obligated to maintain payments due to WTC.
5. Students must return on or before the day they are required to from their Leave of Absence. Failure to do so will result in being dropped from the program.
6. For Active Military and Veterans, refer to the language located in the financial aid section for the veteran leave of absence policy.

Leaves of Absence For 200 Hour Program

The Campus President may grant a leave of absence after determining that good cause is shown. A student may have no more than two leaves of absence in a 12-month calendar period and may be on leave of absence no more than 30 calendar days during that 12-month calendar period. School attendance records will clearly define the dates of the student's leave of absence. A written statement of the reason(s) leave of absence was granted, signed by both the student and the Campus President indicating approval, will be placed in the student's permanent file. A student's enrollment in the program will be terminated if the student fails to return as scheduled from an approved leave of absence.

Course Retakes

Students that have failed a course will be required to repeat the course (or courses) and will be charged for the cost of the course(s). Students are reminded that retaking a course may affect the student's graduation date and depending on course schedules and availability, may require the student to change class schedules for the remainder of their training. May also affect agency and/or Title IV funding. Please check with Financial Aid and Student Accounts.

Drop/Withdrawal

If a student should elect to withdraw from his/her program for any reason before the completion of his/her training, the student is required to inform WTC in writing. Email notification is acceptable.

Official Withdrawal

The student is considered withdrawn based on notification to the Student Services Office from the student, preferably in writing, of the student's intention to withdraw.

Unofficial withdrawal

Enrollment may be terminated after 14 consecutive calendar days of nonattendance and with no contact from the student.

How does this affect you?

Upon withdrawing or being dropped from a program, any scholarship or exemption credit(s) not earned for courses not taken, may be charged back to the student. Any credits to the student's account will follow the Return to Title IV policy, located in the Student Financial Services section and any unused VA benefits will be returned to the VA.

Withdrawn (W) and Withdrawn and Failed (WF)

Students who withdraw from a course before completing 75% of their course, will earn a "W" for Withdrawn. Students who withdraw from a course after completing a minimum of 75% will earn a "WF" for Withdrawn and Failed. This will appear on the student's transcript. Once the TWC refund calculation is complete, a student may have a balance with the school.

For more detailed information, refer to the WT Consumer Guide.

Grounds for Suspension or Termination of the Student by Western Tech

The Student is responsible for adhering to all policies and procedures of Western Tech. The Student understands that Western Tech has the right to suspend or terminate any student who Western Tech determines, at its sole discretion, has failed to satisfy the academic or behavioral standards articulated in the school's catalog and student handbook, including with regard to attendance, or to act in accordance with the laws of Federal, State, or local government, or any policy or procedure of Western Tech, or otherwise has acted in a manner detrimental to the classroom environment, the well-being of fellow students, faculty, or staff, or institutional facilities, or who fails to pay any outstanding balance owed Western Tech under this agreement.

READMITTANCE

Students who have dropped from the college may request readmittance after sitting out one term. For consideration, the student is required to submit a letter to the Campus President, specifically explaining the following:

- What variables prevented them from completing their program.
- What has been done to correct the issue(s).
- What can the college expect from the individual if allowed to return

Upon receiving the letter and if accepted to return, the restart process is initiated. If the student had a balance owed to the school when he/she dropped, the balance must be paid, or acceptable arrangements made with Student Accounts.

Effective February 01, 2019, any student from the program that drops from school and decides to return will be charged at the current rate of attending.

Re-Enrollment of Terminated Students

A student whose enrollment was terminated for unsatisfactory progress may reenroll after a minimum of one progress evaluation period. Such reenrollment does not circumvent the approved refund policy. A student who returns after termination of enrollment for unsatisfactory progress will be placed on academic probation for the next grading period and the student will be advised of this action, and it will be documented in the student's file. If the student does not demonstrate satisfactory progress at the end of this probationary period, the student's enrollment will be terminated.

SUPPORT SERVICES

WTC is committed to serving students, even if the representative assisting the student is not on the premises. Employees may be working offsite. Students are encouraged to contact employees they need to speak with by email, by phone or text message. Students may also ask for assistance by speaking to the receptionist and requesting to speak with someone in the department. The Receptionist will direct the student to the appropriate department.

Student Services

The purpose of the Student Services is to aid students that may be experiencing difficult life situations while enrolled at WTC. Available resources to students include:

- Federal Work Study Job Opportunities
- Transportation
- Off Campus Housing Information
- Resource Directory

WTC does not offer counseling services; however, WTC has contracted with WellConnect, and they offer individual or small group assistance to help students deal with concerns or problems so that he/she may maximize his/her college experience. Students can contact them directly for assistance. They will have up to three sessions per issue at no cost to them, and if additional assistance is needed, the student can work directly with WellConnect.

A resource directory is available for students seeking professional counseling, health, financial, legal, and other services. Copies of the directory are located throughout the campus and are available upon request and is also available in the Student Compass, the electronic student resource center in Canvas (learning management system). Student Services partners with individual organizations, agencies, and companies throughout the region to provide employment opportunities, community resources and volunteer activities that will assist students in their educational process.

IT Services

Students that are issued laptops or Chrome Books for their training can access WTC's onsite and online IT services department. For technical issues, students can bring in their laptops to be examined by an IT Technician. In the event the laptop or chrome book needs to be sent back to the manufacturer over a technical issue, the student may be issued a loaner device until such time the laptop or chrome book is returned to them.

Note: Students who break or lose their device are responsible for its replacement. The student must contact his/her Program Director for further guidance on this issue.

Financial Services Including Financial Aid

All tuition is due and payable by the program start date, unless satisfactory arrangements have been made with the school as evidenced by a Retail Installment Contract and/ or approval of Federal Student Aid. The Student Financial Services Department assists students in planning details of how to pay their educational costs. Each student is confidentially interviewed, his or her situation is considered, and the student is advised on possible payment arrangements. Financial Aid is available for those who qualify. The Financial Services Department is available to assist students with the Federal Student Aid application process. WTC participates in the Subsidized Direct Stafford Loan, Unsubsidized Direct Stafford Loan, Direct PLUS Loan, Federal PELL Grant, the Federal Supplemental Educational Opportunity Grant (SEOG) Program, and the Federal Work Study (FWS) Program.

Learning Resource Center

The Learning Resource Center (LRC) is available to both current students and graduates of WTC. The LRC provides instruction, services, and materials to help enhance academic growth and personal enrichment to help

support the college's mission. The center provides a range of services for faculty as well as for students and alumni including but not limited to the following:

- Book borrowing and searching capabilities
- Online catalog
- Online databases

The LRC hours of operation are posted in the library and on WTC's website (www.westerntech.edu).

Tutoring

Tutoring services are offered for students having trouble with their studies or wanting additional academic assistance. Students on academic probation should attend tutoring sessions. This tutoring is offered as a free service for the benefit of students.

Advising

Academic, attendance, career, professional development, and continuing education advising are provided by faculty, Program Directors, Administrative Specialists, Deans, Student Services Coordinators, and Campus Presidents. Advising services are provided on an individual or small group basis to help students deal with concerns or problems so that he/she may maximize his/her college experience.

WTC does not offer counseling services. However, a resource directory is available for students seeking professional counseling, health, financial, legal, and other services. Copies of the directory are located throughout the campus and are available upon request.

Testing Center

WTC offers testing facilities for our students and the community alike. We are authorized to provide certification and professional licensure examinations through GED and Pearson Vue testing partners. Main hours of operation are from 8:00 am until 5:00 pm, Monday through Thursday, and 8:00 am through 12:30 pm on Fridays. For more information, please contact a test administrator at 1-800-225-5984.

CAREER SERVICES

Graduate Employment Assistance

WTC places great importance in assisting graduates starting their careers! The Career Services team at WTC, together with faculty, Program Directors, and Internship Coordinators, work closely to place students (soon to be graduates) and graduates alike, into career related jobs. Employment assistance services are provided to students from the time they enter school up until the time they graduate, and thereafter provided they are in good standing, which requires that the graduate has not been fired due to misconduct, failing, or refusing a drug screen, or defaulting on his student loans. Students receive the training and skills needed to conduct their own employment opportunity research, résumé writing, interview skills, and networking skills. The success of our graduates is the success of the school!

Students will be required to undergo a mock interview with an employer in their field of study before going to internship or clinicals (depending on the program). The mock interview may be recorded and then critiqued with the student. In addition, the Career Services staff offers workshops for students to provide valuable training in successful interviewing techniques, tips on completing successful online applications, writing effective cover letters and thank you letters.

WTC works diligently to assist new and previous graduates to obtain employment in their field of study. We wish to make it clear however, that due to the vastly different personalities, characteristics, and backgrounds of each individual graduate, the college does not guarantee employment. The college will make reasonable efforts to assist each graduate in finding employment in his/her field. Graduates may need to consider relocating to areas where the

greatest career opportunities exist. Graduate employment results are greatly influenced by student's attendance, overall attitude, academic performance, driving record and background.

Employer Expectations

WTC strives to ensure that every graduate is given every opportunity to interview and secure a job in his/her field of study. Education on what employers expect is crucial to becoming gainfully employed in your field of study. Requirements vary from business to business, and many will require one or more of the items listed below:

1. **Clean Driving Record:** Some organizations have multiple locations and may require the employee to use his/her own vehicle to travel between the different locations or may require the employee to travel to a customer site (i.e. service tech). For all transportation programs for example, there are companies that require their employees to drive company vehicles, pick-up and drop off customers. For these scenarios, a clean driving record becomes a hiring requirement to be insurable by the employer's insurance carrier. Furthermore, the hiring requirement is a means to maintain the position.
2. **A Current Driver's License:** Failure to produce a current driver's license at the time of interview may prevent the graduate from getting hired. Without a license, how will the graduate get to work? An employer has the right to ask.
3. **A Criminal Background Check:** Most Background checks not only reveal misdemeanors and/or felonies in one's background, but also any pending arrests. The criminal check can go as far back as the employer wants to go. Failure to report any criminal conviction may result in being disqualified for hire or terminated from employment if the information surfaces after hire.
4. **Drug Testing:** More than 90% of employers in the US drug test new hires before making a bona- fide offer of employment, contingent upon the results of the background check and drug testing. The most common is urinalysis testing, but follicle testing is much more accurate and is becoming much more affordable to employers. Drug and/or alcohol use, impairs memory, alertness, and achievement. Their use erodes the capacity to perform, think and act responsibly.
5. **Credit Checks:** Businesses of all types and sizes are turning to credit checks to help determine an applicant's integrity and ability to handle money. In the cyber world we live in, employers are required to be more diligent in protecting their customers personal information from theft. All employees that handle government contracts or the government entities themselves, (i.e. FBI, CIA, Border Patrol, etc.), will require government security clearances. To qualify for a government security clearance, the applicant will need to have a good credit rating score. Applicants that have claimed bankruptcy or have had to undergo credit counseling will find that this may prevent them from being considered for employment. Applicants that possess a poor credit score rating are considered "high-risk" and may not be trusted to handle and maintain security information.

Graduate Employment Severance

Employment assistance is an ongoing service available to all graduates in satisfactory standing. To protect the college's reputation as well as the employment opportunities of future graduates, a graduate is in unsatisfactory standing and may forfeit their graduate employment assistance privilege under the following conditions:

1. Have failed or refused to take an employee physical relative to drug or substance testing.
2. Have defaulted on a student loan. Have been discharged from a job since graduating from the college,
3. Misconduct such as stealing, substance abuse, sexual harassment, etc.
4. Are in violation of any of the items listed under Employer Expectations.

STUDENT CODE OF CONDUCT

Any violation of WTC policies & standards, including safety violations, abusive language, drinking or illegal use of drugs (on or off campus) may result in suspension or termination. Improper conduct off campus may also result in suspension or termination. Students are required to follow college policies and standards while attending WTC. It is the student's responsibility to conduct themselves in a proper and respectable manner while attending the College.

Any student who fails to comply with the conduct standards, may be subject to verbal or written reprimand, probation, suspension, or termination from WTC, depending on the nature of the infraction. Readmittance following such termination is at the discretion of the college and relative to the nature and severity of the conduct violation.

The following constitutes a common list of conduct violations. It does not encompass every scenario. Students should immediately report any conduct violations to their instructor or other school official.

1. A student must not in any way interfere with class instruction and learning and must obey directives of WTC faculty and administration.
2. Under no circumstance is any type of food or drink allowed in the classroom. Eating and drinking is allowed in designated break areas. Water will be allowed; however, it must be in a closed container.
3. Use of cellular phones is prohibited in the library, classrooms, labs, and shop areas.
4. The library and Internet are available only for purposes of school projects. Viewing of illicit or inappropriate material or downloading any software is forbidden.
5. Students are always expected to conduct themselves in an orderly manner. Profanity, vulgarity, loud talking, inappropriate discussion or public displays of affection which may cause embarrassment to WTC or to fellow students, is prohibited and not tolerated.
6. Smoking, the use of E-Cigarettes, Vapors, or any other tobacco products (i.e. chewing tobacco, snuff, etc.) is not allowed in the buildings. Smoking, using E-Cigarettes or vapors, or chewing tobacco is allowed in designated areas, outside break areas only, and not in front of the building.
7. No loitering in front or at entrance of the buildings or in parking areas is allowed.
8. For safety purposes, sport activities are not allowed on college property.
9. Students are expected to participate in the classroom and lab activities. They must put forth a reasonable effort to learn. "Loafing," sleeping in class, sitting on work/lab benches, horse playing, and not carrying out instructions are considered types of unsatisfactory conduct.
10. Fighting and gambling on college property are absolutely forbidden.
11. Spouses, children, family members, or friends are not allowed into the classroom unless authorized. Students will be asked to leave with the accompanying member and will be docked for attendance.
12. The unlawful manufacture, distribution, dispensing, possession, use of a controlled substance or alcohol, or the presence of such in your body's system is prohibited on this institution's premises. These "premises" are defined as all school property including building interiors and exteriors, sidewalks, parking lots, privately owned vehicles parked on college premises, as well as desks, lockers, and storage areas. This prohibition applies to students performing any college related tasks, attending school-sponsored functions, including field trips, and internships regardless of location, on or off college premises. Students are expected to comply with all requirements of the Drug Free Schools Act.
13. Possession of a handgun under the authority of the Texas concealed handgun license law is prohibited on college premises. Ammunition, long blade knives (blades over 3" long), and any other type of object that may be construed as a weapon are a violation of college rules and are not permitted. Students possessing weapons are subject to dismissal. Fake or toy guns are also not to be on college premises.
14. Stealing and vandalism are prohibited. Students who commit such violations are subject to automatic dismissal and may be reported to local law enforcement.
15. Any student who willfully damages college property, property belonging to another student, or removes a part(s) from training aids without instructor approval is responsible and liable for repair or replacement costs

and is subject to dismissal from WTC.

16. Each student is expected to do his/her own work. Presenting work done by others, using dishonest means in taking tests, and aiding in cheating is forbidden and subject to suspension or termination from WTC.
17. Safety is everyone's responsibility. Students may be exposed to many potentially dangerous situations and it is very important that the classroom/lab/shop work areas be kept safe. All WTC students are responsible to help keep the school classroom/lab/shop areas clean, dry, and orderly.
18. It is forbidden for students and WTC employees to fraternize, (socializing, dining, drinking, etc.)
19. It is mandatory for all students to have the appropriate tools at school daily.
20. Students are prohibited from downloading items on the college's computers or personal anywhere in the college, unless authorized by the IT Department of WTC.
21. Under no circumstance are students allowed or permitted to sell any items (food, beverages, school material, etc.) for personal gain on school property.
22. Solicitation by a student for any cause or organization is prohibited. The distribution of advertising materials, handbills, or any other literature on WTC property or via any electronic form of communication by students is prohibited.
23. All students are expected to keep the college environment free from intimidation and harassment regardless of sex, race, age, religion, national origin, and disability or any other protected status.
24. WTC is a community of trust whose very existence depends on adherence to standards of conduct. This includes cases involving sexual misconduct and/or sexual assault or attempted sexual assault. Student conduct that violates these standards is handled by the Title IX Coordinator. Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature when:
 - Submission to such conduct is made either explicitly or implicitly as a term or condition of an individual's enrollment
 - Submission to or rejection of such conduct by an individual is used as the basis for enrollment decisions affecting such individuals
 - Such conduct has the purpose or effect of unreasonably interfering with an individual's school performance or creating an intimidating, hostile, or offensive environment.WTC may report violators to the appropriate authority for civil or criminal action. WTC prohibits retaliation of any kind against students who, in good faith, bring sexual harassment complaints or assist in investigating complaints. Exercising rights under this policy does not in any way affect a student's right to seek relief through the Texas Commission on Human Rights, the Equal Employment Opportunity Commission, or in a court of proper jurisdiction for any complaint for which a remedy is provided under state or federal law. It is the responsibility of each student to be aware of the details of the foregoing policy.

Appeals

A student has the right to appeal depending on the nature and severity of the situation, as noted in the Student Code of Conduct. A student who files an appeal will be required to do the following:

- Submit a letter to the attention of the Campus President, detailing the issues that surrounded the dismissal.
- Request an appeal of the decision rendered, with reasons stating why WTC should reconsider.
- The letter can be mailed or presented in person and **MUST** be signed by the student.
- Letters must be sent within 10 days from the day of dismissal to be considered.

Student will be notified within 48 hours by the Campus President who will determine if the violation merits further action or not.

Student Complaint/Grievance Procedure

If a student feels that he or she has an issue or grievance which needs to be addressed, the student is encouraged to address the issue with his/her instructor or program director. If the complaint cannot be adequately resolved there,

the student must then address it, preferably in writing, to the Campus President, so that the issue(s) is addressed completely. If not resolved at that level, then the complaint would then be addressed to the COO.

STUDENT COMPLAINT PROCEDURE

Schools accredited by the Accrediting Commission of Career Schools and Colleges must have a procedure and operational plan for handling student complaints. If a student does not feel that the school has adequately addressed a complaint or concern, the student may consider contacting the Accrediting Commission. All complaints reviewed by the Commission must be in written form and should grant permission for the Commission to forward a copy of the complaint to the school for a response. This can be accomplished by filing the ACCSC Complaint Form. The complainant(s) will be kept informed as to the status of the complaint as well as the final resolution by the Commission. Please direct all inquiries to:

Accrediting Commission of Career Schools & Colleges
2101 Wilson Boulevard, Suite 302
Arlington, VA 22201
(703) 247-4212
www.accsc.org

A copy of the ACCSC Complaint Form is available at the school and may be obtained by contacting (name/position) or online at www.accsc.org.

A copy of the Commission Complaint form is available at the College and may be obtained by contacting the Administrative Specialist or Campus President.

The following is the Texas Workforce Commission Complaint Procedure:

Dear Students:

This school has a Certificate of Approval from the Texas Workforce Commission (TWC).
The TWC-assigned school number is: S0117 (Branch) and S0118 (Main).

The school's programs are approved by the following entities: TWC, Career Colleges & Schools of Texas, Texas Higher Education Coordinating Board, and the Accrediting Commission of Career Schools and Colleges. For the branch campus, the Commission on Accreditation in Physical Therapy Education (CAPTE) approves the Physical Therapist Assistant Program. The Nursing Program is approved by the Texas Board of Nursing.

Students must address their concerns about this school or any of its educational programs by following the grievance process outlined in the school's catalog. Schools are responsible for ensuring and documenting that all students have received a copy of the school's grievance procedures and for describing these procedures in the school's published catalog. If, as a student, you were not provided with this information, please inform school management.

Students dissatisfied with this school's response to their complaint or who are not able to file a complaint with the school, can file a formal complaint with TWC, as well as with other relevant agencies or accreditors, if applicable.

Information on filing a complaint with TWC can be found on TWC's Career Schools and Colleges Website at <http://csc.twc.state.tx.us/>.

If a student does not feel that the College has adequately addressed a grievance or concern, students may contact the state licensing in writing at:

The Texas Workforce Commission, Career Schools and Colleges Section,

101 East 15th St., Austin, TX 78778-0001

Contact information for filling student complaints with the Texas Higher Education Coordinating Board including:

How to submit a Student Complaint: After exhausting the institution's grievance/complaint process, current, former, and prospective students may initiate a complaint with THECB by sending the required forms either by electronic mail to StudentComplaints@thech.state.tx.us, or by mail to the Texas Higher Education Coordinating Board, Office of General Counsel, P.O. Box 12788, Austin, Texas 78711-2788. Facsimile transmissions of the forms are not accepted.

The web address for the Texas Higher Education Coordinating Board's Student Complaints page with forms and a description of the complaint procedure: <http://www.thech.state.tx.us/links/student-complaints/> The THECB complaint form is: <http://reportcenter.thech.state.tx.us/agency-publication/blank-forms-templates/student-complaints-form/>

Student Complaints (Colorado students only)

Student Complaints should be brought to the attention of the School Director to attempt resolution. The Director and student are to follow the grievance procedures according to school policy printed in the school catalog. The student may also file a written complaint online with the Colorado Division of Private Occupational Schools at <http://higher.ed.colorado.gov/dpos> or by requesting a complaint form at (303) 862-3001. All student complaints submitted to the Division must be in writing and shall be filed within two years after the student discontinues training at the school. Student is responsible to check with appropriate Colorado regulatory agencies to confirm program/course work will satisfy initial or renewal licensing or certification of that that agency.

Physical Therapist Assistant: Commission on Accreditation in Physical Therapy Education (CAPTE)

Standard WTC protocol will be followed regarding the grievance policy but with some variations that are specific to the Physical Therapist Assistant program. Those variations can be found on the WTC website, www.westerntech.edu.

Bachelor of Science in Nursing (BSN): Texas Board of Nursing

Standard Western Tech protocol will be followed regarding the grievance policy but with some variations that are specific to the BSN program. The web address for the Board of Nursing is <http://www.bon.texas.gov>. Select "Discipline & Complaints and select "How to File a Complaint". Those variations can be found in the individual program section of this catalog and on the Western Tech website, www.westerntech.edu.

Medical Clinical Assistant (MCA): Commission on Accreditation on Allied Health Education Programs (CAAHEP)

Standard Western Tech protocol will be followed regarding the grievance policy but with some variations that are specific to the MCA program. The web address for the Commission on Accreditation on Allied Health Education Programs is <https://www.cognitofirms.com/CAAHEP2/FileAComplaint>

Standard Western Tech protocol will be followed regarding the grievance policy but with some variations that are specific to student who are Colorado residents. If satisfactory resolution cannot be reached between the student and the school, the student may file a written complaint online with the Colorado Division of Private Occupational Schools at higher.ed.colorado.gov/dpos or by requesting a complaint form at (303) 862-3001. All student complaints submitted to the Division must be in writing and shall be filed within two years after the student discontinues training at the school.

TITLE IX AND SEX DISCRIMINATION

Title IX protects students, employees, applicants for admission and employment. Everyone is protected by Title IX—regardless of their race, color, religion, sex, national origin, age, disability, marital status, military or veteran status, sexual orientation, or gender identity.

The Title IX Coordinator's role is to coordinate the institution's efforts to review and appropriately respond to all complaints of sex discrimination and to work with other school employees and the campus community to prevent sex-based and gender-based harassment.

Who should report the incident?

- Students or employees who believe they may be a victim of sexual harassment or sexual violence.
- Students and employees who believe they may have witnessed sexual violence involving a student or employee.
- Students and employees should also report to the Title IX Coordinator any retaliation against them by any school employee for reporting a Title IX violation or for cooperating with or being involved in a Title IX disciplinary proceeding.

Reporting:

Any employee who is subjected to or witnesses a possible incident of sexual harassment or other unlawful harassment or discrimination or has witnessed or become aware of discrimination or harassment in violation of these policies, should promptly report the matter to one of the following: his/her supervisor, the Human Resources Director/Title IX Coordinator or next higher authority. If an employee feels it is not appropriate to report any issue or incident to his or her supervisor, the employee may contact any other member of management, including the COO or CEO of WTC.

The College will promptly investigate all allegations of discrimination and harassment, and act as appropriate based on the outcome of the investigation. An investigation and its results will be treated as confidential to the extent feasible. Employees who raise concerns and make reports in good faith can do so without fear of reprisal; at the same time, employees have an obligation to cooperate with the College enforcing this policy and investigating and remedying complaints.

Anyone found to have engaged in such wrongful behavior will be subject to appropriate discipline, which may include immediate termination of employment. The severity of any such discipline imposed is left to the sole discretion of the College.

Any employee who files a complaint of sexual harassment or other discrimination in good faith will not be adversely affected in terms and conditions of employment and will not be retaliated against because of the complaint.

In addition, we will not tolerate retaliation against any employee who, in good faith, cooperates in the investigation of a complaint. Anyone who engages in such retaliatory behavior will be subject to appropriate discipline, up to and including termination of employment.

However, if after investigating any complaint of harassment or unlawful discrimination, the College determines that the complainant or a witness has provided false information regarding the complaint, disciplinary action will be taken, up to and including discharge.

TIX policy can be found on www.westerntech.edu under About WT.

The Title IX Coordinator is the individual designated by the College to coordinate its efforts to comply with Title IX.

Questions or concerns about Title IX can be directed to:
Martha Molinar, Title IX Coordinator
Main Campus: 9624 Plaza Circle, El Paso, TX 79927
Branch Campus: 9451 Diana Drive, El Paso, TX 79924
Office: (915) 760-8164
Cell: (915) 497-2433
mmolinar@westerntech.edu

SAFETY & SECURITY

Our College has a commitment to ensure the safety and general welfare of those on our campuses, and to provide appropriate policies, procedures, and strategies to maintain a safe campus. Because of certain crimes, natural disasters, and other emergencies or crisis that may arise, we are convening committees and task forces to reexamine or conduct a comprehensive review of policies, procedures, and systems related to campus safety and security. As with many critical areas on the agendas of administrators, campus safety and security require building support and conducting a thorough and systematic process to produce a quality plan to prepare for and manage emergencies on campus.

We have procedures that will assist staff and students in dealing with any hazard or threat to that may arise while located on a Western Technical College Campus. It is designed to protect employees, students, the community, the environment, and property. It is recognized that unique situations may require variations in the described plan. This plan is intended to provide response protocols to be followed in the event of an emergency. The objective of this plan is to minimize the threat to employee and student safety during a crisis through familiarization of emergency response procedures.

INTERNSHIP/CLINICAL REQUIREMENTS

Students should complete all program requirements before going on internship, although there is occasion a student may need to go out on Internship before he/she is able to take a needed course due to availability. Students will not be allowed to go to Internship until they have been cleared through Career Services, Student Loan Advisors, Financial Aid, Student Accounts, and the Administrative Specialist. The clearance process through these departments will occur a minimum of 45 days before the scheduled internship.

While every effort will be made to schedule internship experiences for students in the evening program to coincide with their school schedule, most internship experiences occur during regular daytime hours from 8:00 am – 5:00 p.m. As a result, students may be required to attend a different schedule to successfully complete their internship experience.

During internship, students may be required to work up to eight (8) hours per day and will need to adjust their schedules accordingly. Any exceptions must be approved by the internship coordinator.

Each student will be placed into an approved business location related to his/her field of study. Normally, internships are unpaid. The internship coordinator will supervise each student's progress. Supervision will consist of reviewing weekly student evaluations provided by the intern site manager and regular intern site visits. During this review, any deficiencies indicated will be addressed with the student. Students will work with the internship program coordinator to establish an individual study program designed to address and correct the areas that may need improvement.

Clinical and internship sites may require drug testing and or background checks prior to the student's scheduled internship/clinical experience. The cost(s) of testing is the responsibility of the student and they may be required to make payments in full directly to the college. Drug screens are \$30.00, and background checks are \$32.75 (Prices are subject to change).

For Physical Therapist Assistant students, in the event a student tests positive for illegal drugs, the student will be automatically suspended from his/her program of study for a period of no less than thirty (30) days. At the completion of thirty (30) days, the student will be required to re-take a drug test at their cost. If the drug screen returns negative, the internship coordinator or Academic Coordinator of Clinical Education (ACCE) will be allowed to work with the student to place them at a site. If it returns positive, the student will be dropped from the program. Students will be provided with a resource directory and WTC will advise the student to seek counseling. If the student chooses to go through drug counseling, the student may re-apply for their respective program thirty (30) days after termination, given the student can provide proof of having successfully completed drug counseling.

Students from all disciplines are encouraged to be truthful and honest about their backgrounds. In the event the background check reveals any misdemeanor or felony convictions of which the student did not make WTC aware before the check was administered, WTC reserves the right to take action against the student, to include, but not limited to suspension or termination from the program. This depends upon the severity of the infraction, and will be determined by the program director, academic dean, dean of distance education and Campus President. The student must successfully complete the internship program before he/she will be allowed to graduate.

Change in Scheduled Operations

A change in scheduled operations including weather-related closing announcements, class cancelations, early dismissal, emergency evacuation, etc. will be made via:

- WTC text message alert system.
- On-site at both campuses via signage.
- Via the WTC email address provided to students, instructors, and staff.
- www.westerntech.edu – WTC homepage.
- via Canvas Learning Management System
- via local broadcast media.

Class Size

The number of students per class or per instructor varies depending on the course of study. Generally, lecture class limits the maximum number of students to 30 per instructor. The maximum ratio for lab/shop instruction is set at 20 students per instructor. Class size for Physical Therapist Assistant: A maximum of 24 students per class and a maximum of 12:1 student instructor ratio for laboratory. Class size for Nursing is a maximum of 30 students and a 10:1 student to instructor ratio for clinicals.

Official Communication Policy

Any official correspondence from WTC to students will be:

- In Writing: at the permanent postal mailing address, or via personal delivery within the school premises;
- Via Electronic Communication (Student Portal, Student Learning Management System), email or text: at the WTC email address provided to all students.
- Students are responsible for reading and responding appropriately to any official correspondence upon receipt from WTC staff or faculty.

GENERAL INFORMATION

Curricula Revisions

The College reserves the right to vary the sequence of courses and revise and/or update curriculum content, textbooks and tool sets as needed, with or without notification.

SEMESTER CREDIT HOURS

All conversions for Semester Credit Hours defined by our state regulators, Texas Workforce Commission (TWC) and Texas Higher Education Coordinating Board (THECB), use the Carnegie system for school credit, therefore SCU's earned is defined as the successful completion of fifteen (15) clock hours of theory instruction, thirty (30) clock hours of laboratory instruction, or forty-five (45) clock hours of internship. Each clock hour is at least fifty (50) minutes in length. At least one hour of study time is recommended for each hour of lecture.

The following Semester Credit Hours defined by WTC's Accreditor, the Accrediting Commission of Career Schools and Colleges (ACCSC) is approved by the US Department of Education. ACCSC approved SCHs are used for Title IV Financial Aid disbursement.

One semester credit hour equals 45 units (and one quarter credit hour equals 30 units) comprised of the following academic activities:

- One clock hour in a didactic learning environment = 2 units
- One clock hour in a supervised laboratory setting of instruction = 1.5 units
- One hour of externship = 1 unit
- One hour of out-of-class work and/or preparation for the didactic learning environment or supervised laboratory setting of instruction that are designed to measure the student's achieved competency relative to the required subject matter objectives = 0.5 unit

SCU's from all programs fulfill the requirement from the state and accreditor.

Dress Code

All students at WTC College are required to wear specific uniforms each day. Variations of the dress code may occur for your program under the direction of your program director and/or instructors. The WTC student dress code is as follows:

1. All students must wear their student issued uniforms while they are attending school.
2. All students must wear closed toe shoes with socks. All welding students must wear leather boots.
3. Where applicable, personal protective equipment must be worn as directed by each department.
4. Shorts, tank tops, sweatpants or other clothing or headwear considered inappropriate by the school, may not be worn at school.
5. Excessively long hair and beards may create a safety hazard and must be tied or braided during shop/laboratory.
6. Sunglasses are not to be worn anywhere inside the building.

NOTE: Program Directors and Instructors have the authority not to allow baseball caps or other headgear to be worn in the classroom.

Parking

Student parking is available. On Campus parking is limited to first come, first served. However, students may not park in spaces designated visitor parking, nor on the rocks or dirt areas. Students found parking in these areas will be asked to move their vehicle.

GRADUATION REQUIREMENTS

In order to graduate from WTC, all students must obtain a minimum of 2.0 cumulative GPA, meet attendance and other college requirements, and pass all required courses, including undergoing a mock interview with an actual

employer and submit an updated resume to Career Services. Students must achieve and maintain a minimum CUMULATIVE grade point average *and* a minimum COURSE GRADE of 2.75 (or a 78% numeric grade) in all core courses, and all course work must be satisfactorily completed to be eligible for graduation. Also, each individual written examination and practical examination must be completed at a level of 74% or greater.

NOTE: Specific program graduation requirements are located within each program description.

Students are also required to achieve specific certifications before going on their internship experience, described within each program.

Upon successful completion of the internship experience, students will be allowed to pick up their degree/certificate of completion within approximately 4 weeks after their final completion date from the Administrative Specialist.

Graduation Ceremonies

WTC graduation ceremonies represent the culmination of a student's academic achievement. It is a time of celebration and reflection for students, families, friends, faculty, and staff. In addition to celebrating each student's accomplishments, graduates with exemplary academics and/or attendance are recognized during the ceremony.

WTC commencement ceremonies are usually held twice a year, once in the summer and again during the winter and are conducted at the Don Haskins center located at the University of Texas at El Paso. All family members and friends are invited and welcome to attend to help celebrate the achievements of the graduates.

To ensure that all graduates are prepared and have all necessary requirements completed prior to graduation, each student will receive a graduation packet one (1) month prior to the commencement ceremonies. In this packet, students will receive:

- A congratulatory letter detailing the events for the day of graduation (time, date)
- Graduation photography information
- Do's and Don'ts of graduation
- Directions to and map of the venue

Awards

The following categories will be recognized: Summa Cum Laude, one selected from each campus, (White sash): 4.0 GPA and 98%-100% Attendance, Magna Cum Laude (Gold Cord): 3.8- 4.0 GPA and 97% or higher Attendance, GPA Recognition (Blue Cord): 3.8-4.0 GPA, Attendance Recognition (Red Cord): 97% or higher attendance.

WTC College confers Certificates/Degrees, specifically Certificate of Completion, Associate of Occupational Studies Degree, Associate of Applied Science Degree, Baccalaureate Degrees, and a master degree.

Refresher Training

To stay current with ever-changing technological developments in their industry, graduates may return to WTC and retake any courses of the program from which they graduated according to the following conditions:

Refresher training will be allowed on a "space available" basis only and requires the approval of both the program director and Campus President.

Graduates may repeat up to three courses in the same program from which they graduated at no tuition charge. Any additional courses may be taken at a charge of 25% of the current tuition rate.

Educational or Operational Changes

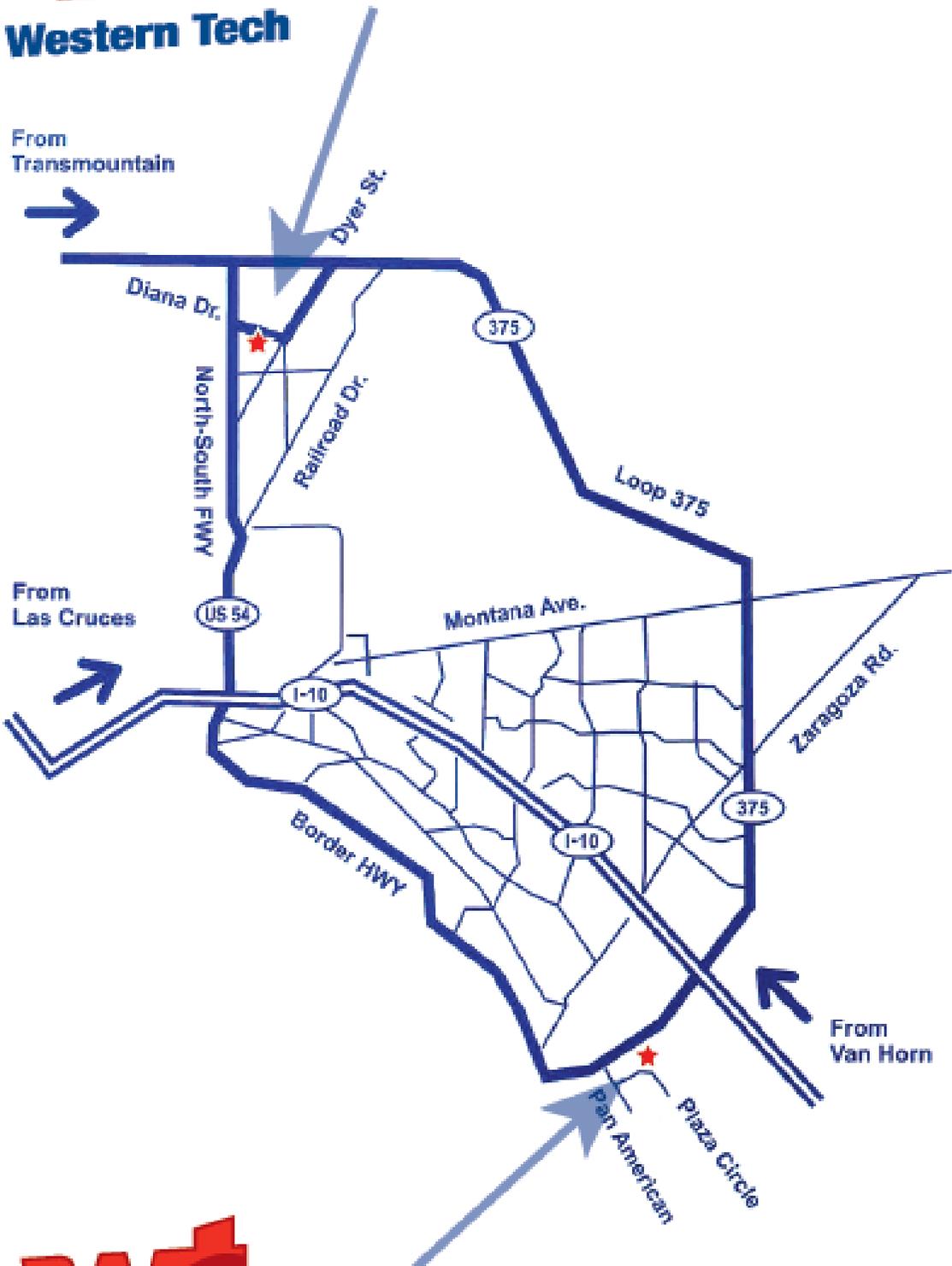
WTC reserves the right to make changes, at its sole discretion, to any facet of its operations, including graduation requirements, costs, curriculum, course structure and content, faculty, methods of delivery, class schedule, and the calendar of operation, as needed. WTC expressly reserves the right to cancel or postpone any new start for any program due to insufficient enrollment. Reasonable notice of any such changes will be provided to the student. Any policy change to the catalog is updated, the latest version will be made available through WTC’s website or through the school’s admissions department.

Articulation Agreements

For graduates wishing to continue their education elsewhere, WTC has structured articulation agreements with the University of Phoenix, Western Governors and Grand Canyon University. WTC also has an articulation agreement with Chamberlain University for the BSN program only, and Strayer University with the Automotive Technology Mopar program. For further information, graduates should contact these institutions regarding course exemptions and credits or speak with their respective Campus President at WTC.



9451 Diana Drive
Campus



9624 Plaza Circle
Campus



OUR MISSION

The mission of Western Technical College is to:
Provide quality training and education in a caring,
professional environment that prepares new students
and working adults with the skills they need to
succeed and advance in their chosen careers.

