Accredited by
Central Texas College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees and certificates of completion. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Central Texas College.

Approved by
Texas Higher Education Coordinating Board; Texas Education Agency

Listed in
Report of Credit given by American Association of Collegiate Registrars and Admissions Officers
Report of Credit given by Southern Association of Colleges and Schools
Accredited Institutions of Postsecondary Education American Council on Education
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From left to right (back to front)
Mr. Bill Alexander, Mr. Jim Yeonopolus, Mr. B.W. Beebe, Mr. Robert C. Farrell, and Dr. James R. Anderson
Chancellor’s Message

2009 can best be summed up in one word – growth! We experienced significant growth in numbers as well as construction. Early in the year we broke ground on a new classroom facility on Fort Hood. Its completion a year later makes us the only educational institution to have three self-owned facilities on a military base. The new two-story structure was constructed adjacent to our existing Ft. Hood campus providing soldiers easy access to meet their administrative needs.

Later in the year, we also broke ground at the site of our new central campus nursing building. The 85,000 square foot building will consist of numerous classrooms and labs, a simulated intensive care unit and emergency room and state-of-the-art equipment to provide nursing students the best possible training. The facility will be a shared cooperative with Texas A&M-Central Texas and Metroplex Hospital. We are scheduled to open the facility with the spring 2011 semester.

Our next project will be to seek bids for the construction of a new student center.

Along with the growth of campus facilities, we have seen an upswing in enrollment numbers for both the fall and spring semesters. Student headcount at central campus for the spring 2010 semester is the highest in five years. Our total student headcount for Texas is also the highest it has been in years. The addition of new programs of study, our increased recruiting and retention efforts, changes to the GI Bill have all contributed to the increase in numbers. According to Community College Week publication we are the 13th fastest growing community college in the nation. From 2007 to 2008, our enrollment rose 13.8 percent – a figure that is sure to grow based on current enrollment figures.

This past year we were named the safest campus in Texas and fourth safest in the nation according to a study completed by StateUniversity.com. Our rating of 99.2 percent was based on campus crime statistics, per 1,000 students, accounting for the severity and frequency of crime.

Our commitment to service members has never been more prevalent as CTC was ranked the number one undergraduate school for the number of students attending (31,733) and number of enrollments/course (69,701) among military personnel using the Department of Defense (DoD) Voluntary Education Tuition Assistance program. And for the third consecutive year, CTC was named to the Top 20 Military-Friendly Colleges and Universities by KMI Media Group and Military Advanced Education publication.

We are also very proud that the first student to walk across the stage to receive a degree in the first-ever graduation ceremony for soldiers in Iraq was a CTC student. Held at Camp Victory, located in Baghdad, Iraq, the graduation consisted of 79 service members from 21 different schools with the majority of graduates (26) from CTC.

In spite of these achievements, CTC still has a bit of an uphill battle to face with state budget cuts. But as we have done in the past, we will find solutions to these challenges with minimal disruption to students. Together, as a team, we will continue to grow, succeed and provide the best quality education possible to our students at one the most affordable rates in Texas.

Thank you,

James R. Anderson, Ph. D.
Chancellor
History
In 1965, the citizens of Central Texas joined together to authorize the building of a community college that would serve the western section of Bell County; Burnet, Coryell, Hamilton, Lampasas, Llano, Mason, Mills and San Saba counties; portions of McCulloch and Williamson counties; as well as Fort Hood and the state correctional facilities in Gatesville. The campus was constructed on 560 acres of land donated by Fort Hood through the Department of Education and with funds supplied through a local $2 million bond issue. Central Texas College, under Section 130.04 of the Texas Education Code, opened its doors with an initial enrollment of 2,068 students in the fall of 1967. The number of students and the location of offerings have steadily increased since that time. Central Texas College has maintained its institutional accreditation status with the Commission on Colleges of the Southern Association of Colleges and Schools since first being awarded accreditation in 1969, and was reaffirmed most recently in June 2005, for a ten-year period.

CTC initiated on-site programs on Fort Hood in 1970 and in Europe in 1974. CTC’s success at Fort Hood and Europe led to the explosive expansion of CTC’s locations including Fort Leonard Wood (Missouri), South Korea and the U.S. Atlantic and Pacific Fleets in 1976. By the early 1980s CTC offered programs to military personnel stationed in the Pacific Command, Alaska and Panama as well as throughout the Continental United States. This expansion occurred locally as well with the initiation of instructional programs and services for the Texas Department of Corrections in Gatesville in 1976.

In 1970, CTC began to offer broadcast telecourses to the citizens of Central Texas. College credit classes were first delivered by video conference in the Service Area in 1994 and from the Central Campus in 1996, enabling area high schools and other colleges in the geographical region to receive CTC courses. At the same time, Central Campus faculty began to enrich traditionally taught courses with professionally produced multimedia materials and with materials selected from the Internet. CTC taught its first online course in 1998. In 1998, CTC was invited to list its online courses in the inventory of the Electronic Campus of the Southern Regional Educational Consortium. CTC’s membership in the Sloan Consortium was approved in 1999. In 2000, the PricewaterhouseCoopers firm invited CTC to become an educational partner in the new Army University Access Online (eArmyU) project for the soldiers in the United States Army. Entire associate degrees were available online for the first time in the spring of 2001. CTC continues expanding its distance education offerings and delivery methods.

Today, CTC consists of administrative units referred to as campuses: the Central Campus, the Continental Campus, the Europe Campus, the Fort Hood and Service Area Campus, the Navy Campus and the Pacific Far East Campus. Of these, the Central, Fort Hood and Service Area Campuses operate within the state of Texas. While some campuses, like the Navy Campus, offer programs only for military personnel, others enroll military, civilians and incarcerated students.

Students enrolled in CTC may select a degree plan from Associate of Arts degree programs, Associate of Science degree programs, Associate in Applied Science degree programs, or Associate in General Studies. In addition, students choosing to earn a certificate may enroll in any of the more than 40 certificate programs. Campuses may offer the full range of degree programs and services or only those identified through local needs assessments. CTC also provides a wide range of education and training opportunities for those students who do not select a degree or certificate option. Committed to serving all students, CTC provides comprehensive programs and services for special populations: disability support services, single parent/homemaker support services and nontraditional career support services as well as tutoring and transportation assistance. To meet the occupational training needs, Central Texas College offers a variety of professional development and job-related skills programs such as basic literacy, leadership skills, foreign language skills and occupational skills programs.

Term Calendar for Continental and International Campuses, 2010-2011

The term calendar lists the official term dates for Central Texas College campuses outside Texas. Contact your Central Texas College representative for start and end dates of courses offered at your location. Most courses offered by the Continental and International (C&I) locations are taught over eight weeks. Distance learning courses offered from the Central Campus in Killeen, Texas, have monthly start dates and course lengths of eight to sixteen weeks. Visit the college’s web site at www.ctcd.edu to view distance learning courses.

Term Calendar
Term 1 (Fall) August 1, 2010 through Oct. 16, 2010
Term 2 (Fall) Oct. 17, 2010 through Dec. 31, 2010
Term 3 (Spring) Jan. 1, 2011 through March 12, 2011
Term 4 (Spring) March 13, 2011 through April 30, 2011
Term 5 (Summer I) May 1, 2011 through June 30, 2011
Mini Term *(Summer II) July 1, 2011 through July 31, 2011

* Offered at selected locations
**Our Mission and Purpose**

**Institutional Mission Statement**
Central Texas College provides education for a global community through responsive, innovative instruction and educational services for diverse student populations.

**Institutional Purpose**
Central Texas College is a two-year, open admissions institution which provides educational opportunities to students locally, nationally and internationally. The purpose of CTC, as set forth in Section 130 of the Texas Education Code, is to provide:

- technical programs up to two years in length leading to associate degrees and/or certificates,
- vocational programs leading directly to employment and/or advancement in semi-skilled and skilled operations; freshman and sophomore level courses in arts and sciences;
- adult, continuing, and community education programs for occupational upgrading or cultural enrichment;
- compensatory education programs designed to fulfill the commitment of an admissions policy allowing the enrollment of disadvantaged students;
- a continuing program of counseling and guidance designed to assist students in achieving their individual educational goals;
- workforce development programs designed to meet civilian and military community needs;
- adult literacy and other basic skills programs for adults;
- library services; and
- a wide variety of public service needs.

**Strategic Planning**
Central Texas College has established a standing Research Committee that has the responsibilities to revise a strategic plan and periodically review the institution’s mission and purpose statements. The committee has developed a vision statement and has established broad goals that center on instruction, research, public service and institutional support and ancillary operations. Specific objectives that are measurable have been developed for all institutional goals. The committee has been assigned the responsibility to annually assess the institution’s progress on meeting the goals and objectives. Results of the assessment are used to develop strategies to be implemented by the departments and units. During the annual budget process, resources are identified and committed in order to implement the strategies. Copies of the current Strategic Planning documents are available in the Office of Institutional Effectiveness (IE), on the IE webpage, and in the Oveta Culp Hobby Memorial Library on the Central Campus.

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**General Information**

**The Catalog**
Central Texas College serves military personnel and their family members worldwide. The Central Campus is located in Killeen, Texas. This catalog is an official publication of Central Texas College containing policies, regulations, and procedures applicable to locations outside the state of Texas, which were in effect at the time the Catalog was published. Central Texas College reserves the right to make changes at any time to reflect current Board policies, administrative regulations and procedures, amendments required by state or federal laws, and tuition or fee changes. CTC also publishes a Texas Campuses Catalog for students attending in the state of Texas or enrolled in distance learning.

*Study the contents of this Catalog carefully; you are responsible for observing the regulations contained herein.*

**Program and Course Availability**
Programs of study vary with each location and not all programs are available at every location. Individuals interested in programs that are not locally available should consult with the local Education Services Officer (ESO), Navy College Office Representative (NCO), Education Specialist, or Central Texas College representative.

Programs of study displayed in this Catalog are offered when sufficient interest indicates a level of enrollment required for program continuation and when authorized under the military contract or memorandum of understanding for the specific C&I site or campus. CTC reserves the right to adjust course scheduling, including class cancellation, when enrollment or other circumstances require this action. There is no guarantee that a specific course will be offered at any given time. It is the student’s responsibility to complete the required courses when offered.

CTC is a participant of the GoArmyEd program, which allows active duty soldiers to request Army Tuition Assistance online and apply for admissions and register for classes through the GoArmyEd portal. With over 150 locations worldwide with classroom offerings, 21 degree and 22 certificate programs online and CD-ROM courses available for servicemembers deployed at remote locations, you can choose the option that’s right for you.

**Equal Opportunity Policy**
Central Texas College District is an equal opportunity, affirmative action institution. We are unequivocally committed to a policy of equal access and equal opportunity in employment practices, admissions, educational programs, and all other college activities. The college does not discriminate on the basis of race, color, religion, national origin, gender, age, disability or veteran status. Accordingly, it is the policy of the college to maintain an academic and work environment free of discrimination and harassment in accordance with all applicable federal, state and local statutes and regulations.
The designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act relating to students is Mr. Jim Yeonopolus, Deputy Chancellor for International and Navy Campus Operations/Dean, Navy Campus (254) 526-1781; the designated coordinator for employment of faculty and staff is Holly Jordan, Director of Human Resource Management (254) 526-1128.

Central Texas College has established programs to ensure that a lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

Existing administrative procedures of Central Texas College are used to handle student grievances. If you believe a condition or employee of Central Texas College is unfair or discriminatory, you can appeal to the administrator in charge of that area. If you need assistance pursuing a grievance matter, contact the CTC official representative or the Campus Dean at your location. Refer to your student handbook for additional information.

**Americans with Disabilities Act**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. This legislation requires that all students with disabilities be guaranteed a learning environment that provides equal access to all programs and services. If you have a documented disability, please contact your CTC official representative or Campus Dean at your location.

**Statement on Harassment and Discrimination**

Central Texas College is committed to providing an educational and work climate that is conducive to the personal and professional development of each individual. Faculty, staff, and students should be aware that discrimination and harassment on the basis of race, color, religion, gender, national origin, age, disability, or veteran status of individuals or any other sub groups stereotyping or grouping within the college community is unacceptable. Central Texas College also strives to protect the rights and privileges and to enhance the self-esteem of all its members.

If you believe you have experienced harassment or discrimination, contact the appropriate office where you attend. Students should contact the appropriate Campus Dean. Faculty and staff should contact the Human Resources Department at (254) 526-1128.

**Approvals and Authorization**

Central Texas College is approved to offer specific programs and courses at military installations around the world according to the contract, agreement, or memorandum of understanding for that campus or location.

Distance learning programs and courses adhere to the rules and regulations of the Texas Higher Education Coordinating Board, the Texas Education Agency, and the SACS Principles as stated in the Distance Education: Definition and Principles: A Policy by the Commission on Colleges, Southern Association. The distance learning programs are guided by the Principles developed by the Western Interstate Commission on Higher Education (WICHE) and the Principles of Good Practice developed by the American Council on Education.

Central Texas College is authorized by the Washington Higher Education Coordinating Board (HECB) and meets the requirements and minimum educational standards established for degree-granting institutions under the Degree-Granting Institutions Act. This authorization is subject to periodic review and authorizes Central Texas College to offer the following degree program: Associate of General Studies. Authorization by the HECB does not carry with it an endorsement by the board of the institution or its programs.

Any person desiring information about the requirements of the act or the applicability of those requirements to the institution may contact the HECB at P.O. Box 43430, Olympia, WA 98504-3430. The State Council of Higher Education for Virginia has certified Central Texas College to operate in Virginia at 961 Bishop Loop, Bldg 8035, Fort Lee, Virginia. In addition, Central Texas College is authorized to offer college programs in Alaska, California, Georgia, Louisiana, Maryland, North Carolina, Virginia, and Washington D.C.

Central Texas College is currently licensed by the Board of Regents of the State of Louisiana. Licenses are renewed by the State Board of Regents every two years. Licensed institutions have met minimal operational standards set forth by the state, but licensure does not constitute accreditation, guarantee the transferability of credit, nor signify that programs are certifiable by any professional agency or organization.

Central Texas College’s programs are approved for individuals who wish to attend and receive benefits under the Veterans Readjustment Benefits Act of 1966, Post-Vietnam Veterans Educational Assistance Program, the Veterans Educational Assistance Act of 1984, Chapter 106-Reservists Education Bill, Chapter 30-VA Education Bill of 1986, Chapter 33-Post 9/11 Veterans Assistance and family members qualified for VA Educational Benefits, Chapter 35.

**Distance Education**

In addition to classes offered at CTC locations around the world, Central Texas College offers a wide range of learning opportunities for distant learners from single courses to complete certificates and degrees. In fact, Central Texas College is one of the largest community colleges in the United States when it comes to distance education. Distance education courses are transferable as face-to-face courses because they are taught by the same faculty, use the same textbooks, and require the same standards as face-to-face courses. Faculty teaching distance learning classes must meet the academic and professional preparation criteria of regional accreditation, the standards established by the Texas Higher Education Coordinating Board rules and regulations and licensure and approval requirements of applicable regulatory boards. Both DANTES and the Servicemembers Opportunity Colleges have approved CTC as a provider of distance learning courses. CTC is an educational provider of distance learning through the Sloan Consortium.

Distance education courses are designed to be equivalent to the same course taught in a classroom. They have the same course descriptions, course objectives, and learning outcomes of a traditional classroom course.

**Articulation Agreements Leading to Bachelor Degrees**

Central Texas College holds articulation agreements with several colleges and universities located within and outside of Texas. These agreements allow the eligible CTC student a seamless transition into a four-year degree program. Many of the articulation agreements are with colleges and universities that offer online bachelor degree programs. Additional information may be found at the Transfer Center on the Central Texas College, Killeen, Texas, website or obtained through an academic advisor.
Admissions and Registration

General Admission Information
Students wishing to attend Central Texas College should visit with the Education Center or Navy College Office representative to discuss their educational goals. Military facilities provide diagnostic, aptitude, and placement testing to assist students in selecting programs of study. Once students have identified and chosen an appropriate program of study, the admissions and registration process may begin.

Central Texas College is a comprehensive community college that maintains an open-door admissions policy to ensure that all persons who may benefit from postsecondary education have the opportunity to enroll. New students will be admitted to Central Texas College providing all admission requirements are met. Admission to Central Texas College does not guarantee admissions to specific programs and courses. Departmental approval is required to register for certain courses as published in the college catalog and schedule bulletins.

Only personnel sponsored in the overseas command by the U.S. Armed Services are normally permitted to attend Central Texas College classes. Other applicants may attend classes if local policy permits, but they must receive approval from the local ESO or NCO personnel for necessary military and governmental approval before being permitted to file an application for admission. Active duty personnel will have priority when enrolling for all classes.

General Admission Requirements For All Students in Credit Programs
An individual who has graduated from a high school to include an accredited public or private school; who has successfully completed a nontraditional secondary education program in a recognized nonaccredited private school setting to include a home school; or who has earned a General Educational Development (GED) certificate will be admitted to Central Texas College. All individuals will be required to follow the regular admissions process.

Adults, veterans and military personnel 18 years or older who have not completed a high school program may be admitted on an “Individual Approval” basis if the individual can demonstrate the ability to benefit from instruction. Applicants wishing to be admitted under individual approval must complete a “Request for Waiver” form available through the Student Services office of the appropriate CTC campus. The applicant must show evidence of successful experiences which reasonably predicts his or her ability to make satisfactory progress at the college. The Dean of Student Developmental Services will review the request with the appropriate department chair/faculty or the Campus Dean and then make a recommendation to the Systems Registrar for final approval.

Early admission offers the opportunity for high school students to earn college credits while concurrently enrolled in high school or during the summer. Early admission is open to high school students who are classified as juniors or seniors and are in good academic standing. Permission to enroll in CTC must be granted by the student’s parent or legal guardian and endorsed by the high school principal, counselor, or designated representative. Concurrently enrolled high school students must adhere to the requirements of CTC and their high school. An early admission form signed by the designated school official and parent or legal guardian must be submitted each semester of enrollment. Independent school districts may have additional requirements.

NOTE Central Texas College assumes no responsibility for loss of Interscholastic League eligibility of high school students enrolled in the early admissions program. Credits earned before high school graduation may not transfer to some colleges.

Students applying for Financial Aid must have a high school diploma or GED. Non-high school graduates should contact the Office of Student Financial Assistance at (254) 526-1508 for further details.

Admission Procedures, College Credit Programs
Visit the CTC representative at your location for information on admissions, registration, program and course selection. If you are interested in distance learning courses and there is not a CTC representative at your location, contact online. mentors@ctcd.edu. Listed below are general admission requirements for students located outside of Texas.

New CTC Students, First-Time Students
All new college students seeking a degree or certificate from CTC are required to:
1. Complete a CTC Application for Admission.
2. Submit an official high school transcript or General Educational Development (GED) scores demonstrating high school graduation or equivalency.
3. Meet with the designated CTC representative at your location to discuss a program of study and course selections.

All first-time new students are encouraged to complete a Free Application for Federal Student Aid (FAFSA) to determine if they may be eligible for student financial assistance.

Transfer Students
Students who have previously attended another college or university prior to applying for admission to CTC are required to:
1. Complete a CTC Application for Admission.
2. Submit an official high school transcript or General Educational Development (GED) scores demonstrating high school graduation or equivalency.
3. Submit official transcripts from each accredited college or university previously attended.
4. Meet with the designated CTC representative at your location to discuss a program of study and course selections.

Students on academic probation or suspension at the transfer institution will be admitted on probation to Central Texas College and must earn a grade point average of 2.0 during their first semester in attendance at CTC. Students in this category who do not achieve a grade point average of 2.0 will be suspended for one long semester.
**Former CTC Students, Readmissions**
If it has been at least one year since you attended CTC, follow the steps below.
1. Complete a new CTC Application for Admission.
2. If you have attended other colleges or universities since last enrolled with CTC, request that official transcripts be sent to CTC.
3. Meet with the designated CTC representative at your location to discuss a program of study and course selections.

**Transient Students**
If your intent is to attend CTC to earn credits to transfer into a degree program at another college or university, you do not need to submit education records from previously attended colleges or universities unless required for Veterans Services, Financial Aid, or to document earned requirements. Records will be required if you later elect to seek a certificate, degree, or award of credit. You are required to:
1. Complete a CTC Application for Admission.
2. Contact the advisor at your college or university to ensure course transferability. If your school is a member of the Servicemen Members Opportunity College (SOC), the SOC Degree Network System-2 Handbook that includes transfer guarantee articulations is available at local Education Centers, Navy College Offices, and CTC locations. The handbook is also available online at www.soc.aascu.org.
3. Meet with the CTC representative to determine any course prerequisites or placement requirements.

**Early Admissions, High School Students**
Early admissions is available to selected high school students who are in good academic standing and classified as juniors or seniors. To apply for early admission:
1. Complete the Early Admissions Application signed by the high school principal or counselor and parent or legal guardian. Application must be re-submitted for each semester of enrollment.
2. Complete CTC’s Application for Admission.
3. Provide an official high school transcript.
4. Accepted high school students are limited to two courses per semester (fall, spring, summer). A student may not take more than six courses in a year.

**Guidelines for Active Duty Army Using Tuition Assistance**
Active duty soldiers using Army tuition assistance will apply and register through the GoArmyEd portal. Self-pay Army students whose tuition assistance has been suspended due to a grade point average below 2.0 are encouraged to register through the GoArmyEd portal and render payment directly to CTC in order to track their academic progress. All students must meet the general admission requirements in the CTC college catalog. The guidelines below are to assist students in applying and registering through the portal. Procedures are subject to change, and students are encouraged to visit the GoArmyEd website for the latest information.
1. Obtain your GoArmyEd user login and password. If you have not received an AKO email with your login, go to the GoArmyEd portal at www.GoArmyEd.com and click on the New Users tab. Complete the information requested to receive a username and password.
2. Complete the Soldier Quick Start Training on the portal and other required in-processing steps. Soldiers will need to contact an Army Education Center to activate their account.
3. If CTC is your host college and you have not previously enrolled in CTC courses through the GoArmyEd portal but have a SOCAD2 Agreement currently with CTC, take a copy of your student agreement to the Army Education Counselor. Your counselor will upload your student agreement to the portal. Any changes in your program of study must be approved by your Army Education Center counselor. New students will receive a student agreement prior to completion of six semester hours with CTC. Refer to the Student Services section of the catalog for more information.
4. Visit with a CTC representative to obtain a catalog, degree plan advisement, and other school-related information.
5. Fill out the GoArmyEd common application online.
6. If CTC is your host college, request official transcripts from each regionally accredited college or university previously attended be sent directly to CTC. Submit a high school transcript or GED scores verifying high school graduation equivalency if you have not already successfully completed at least 12 semester hours at another college or university.
7. Transient students (students who have a home institution other than CTC) are not required to submit official transcripts unless using financial aid.
8. Browse through the GoArmyEd Schedule of Classes and register for courses online. Ensure you meet course prerequisites prior to enrolling. If you are not eligible to enroll in a course, you will be notified by CTC. Refer to Reference Document titled “Enrolling in GoArmyEd Courses (Course Enrollment Guide Step-by-Step Instructions)”.

**Distant Learners**
Students enrolling in distance learning programs must meet general institutional admission requirements. If you cannot apply for admission and register at a local CTC office, contact the online.mentors@ctcd.edu. An online mentor will assist you with admissions, registration, and advisement. Distant learners may contact their local CTC representative to determine eligibility to register online through WebAdvisor. Students are encouraged to complete the distant learning orientation at the CTC Distance Learning website at online.ctcd.edu. Students enrolled in distance education courses must provide their own computers, or have access to computers, have Internet access for online courses and email accounts.

**Texas Success Initiative**
Distant learners in Texas and out-of-state distant learners who are bona fide Texas residents receiving in-state tuition rates must meet the Texas Success Initiative (TSI) requirements unless TSI exempt or waived; and submit substantiating documents for residency purposes. The TSI program is a state-legislated mandated program to ensure that students have the skills to be successful in freshman academic coursework. The program includes (1) an assessment to diagnose students’ basic academic skills in reading, writing, and mathematics; and (2) developmental instruction to strengthen academic skills that need improvement. Distant learners must contact an online counselor to determine their TSI status and educational plan.
International Students
Local and third country national students are not permitted to attend Central Texas College C&I locations without permission from the Education Center or Navy College Office representative and the appropriate Military Command. Local nationals who receive permission are required to take the Test of English as a Foreign Language (TOEFL). A score of 520 on the paper-based test, 190 on the computer-based test or 68 on the Internet-based test is required for admission into the college credit program. Students native to countries whose official language is English, and whose education has been in English, are not required to take the TOEFL.

Out-of-State CTC Students Who Move to Texas
If you move to Texas and continue your studies with Central Texas College, you are required to meet certain in-state requirements as follows:
1. Complete a CTC Application for Admission.
2. Nonresident active duty members of the U.S. Armed Forces assigned to duty in Texas and their spouse and dependent children are entitled to pay resident tuition rates. To qualify, the student must submit a completed military verification form, that is available online and in the schedule bulletin, during his or her first semester of enrollment which he or she will be using the waiver and present valid military I.D. card. In lieu of a military verification form, a copy of the military orders of the active duty military sponsor with permanent assignment to duty in Texas may be substituted.
3. Take the ACT ASSET or Texas Higher Education Assessment (THEA) test unless student is exempt or waived from the Texas Success Initiative (TSI) requirements. Refer to the Texas Campuses Catalog or contact an online counselor for more information.
4. Verify that your high school transcript, GED scores, and/or official transcripts from accredited colleges or universities previously attended are on file. If not, request that official transcripts from each school be sent to CTC.
5. Meet with an academic advisor.
6. Make arrangements to attend the new student orientation.

NOTE Official transcripts and TSI state-approved test scores must be sent directly to CTC from the issuing educational institution. You may be conditionally admitted pending receipt of official high school and college or university transcripts. Falsification of information will result in disciplinary action and may result in dismissal from Central Texas College.

Records Required
Transcripts
Official transcripts from all regionally accredited colleges and universities previously attended are required if the student is seeking a degree or certificate from Central Texas College, using student financial aid or Veterans benefits, or requests an official evaluation of prior learning experiences. Distant learners who must meet Texas Success Initiative requirements are required to submit official transcripts. Transfer students who plan to use financial aid must have transcripts on file prior to determining financial aid eligibility. Official transcripts must be mailed directly to CTC from each college or university. Hand-carried transcripts will only be accepted if received in a sealed envelope marked “official.”

Registration
Typically, Central Texas College assigns a representative to each Education Center or CTC office where a program is conducted. Information on registration, term dates, evaluations, programs offered and related questions should be directed to the local Central Texas College representative at the Education Center, Navy College Office, or to the local Central Texas College office.

Out-of-State CTC Students Who Move to Texas

Registration Schedules
CTC conducts an academic year starting and ending in August. Courses are usually offered through five, eight-week terms but start/end dates and course lengths may vary at different locations to meet military schedules. Consult your local schedule for times and dates of registration and classes. GoArmyEd TA and eArmyU students may view local classroom and online course offerings through the GoArmyEd portal.

Distance learning course offerings generally start on a monthly basis with varying course lengths. Students may choose to take courses online or offline (multi media). Distance learning course offerings are available for view on the CTC Distance Learning website and through WebAdvisor accessed through the official CTC web site.

Officially enrolled distance learning students receive a welcome confirmation email with instructions for getting started.

Registration Procedures
Upon completion of the admissions requirements, the following must be completed before you will be officially registered and permitted to start your course:
1. Complete the C&I Class Registration form each time you register, register online via CTC’s Webadvisor or register through the GoArmyEd portal if using Army TA.
2. Pay tuition and fees at the time of course enrollment. Students are responsible for submitting approved military tuition assistance forms and other third-party sponsorship forms. Army TA is automatically processed at the time of registration on the GoArmyEd portal.

Admission and registration forms are available from the Central Texas College representative at your location and online at the CTC web site.

Late Registration
Late registration for classroom courses is permitted for a limited time after class begins. Consult local schedules for exact dates. Late registration is not permitted for distance learning courses. Students who complete registration after classes begin are not excused from meeting attendance or academic requirements and must arrange with the instructor to make up missed classes.

Adding or Dropping Classes
During the official add/drop period, you may add and drop courses based upon institutional and military guidelines. You may not add a distance learning course without special permission. Classes missed will be counted as absences, and you will be required to make up any assignments. GoArmyEd students drop and add courses through the GoArmyEd portal.
Official Enrollment
To gain admission to classes, you must complete the published registration procedure each term, including payment of all tuition and fees. No one is officially enrolled until all tuition and fees have been paid in full. Students who withdraw are not entitled to remain in class on an unofficial basis. Only those students who are officially enrolled may attend classes.

Uniform Application of Standards
The standards of Central Texas College’s academic and student policies are uniform at all locations served by CTC. The subsequent sections of this Catalog provide information required and unique to Continental and International Campuses.

College Costs

Tuition*
Tuition for classes at Central Texas College locations outside Texas varies with the government contract, agreement, or memorandum of understanding through which the institution operates. Therefore, both tuition and fees may be adjusted, based on government contracts and local conditions, during the period this Catalog is in effect. Costs of classes to students will vary with the level of support being provided by the sponsoring agency at each campus or site.

Obtain information about current tuition, fees and costs of classes from the Education Officer, Navy College Officer, or the Central Texas College representative.

NOTE Students are responsible for any additional amounts owed to CTC resulting from post-enrollment audits and corrections, including all fees and waivers; e.g., registered assessing errors, dropping or adding classes, invalid employment, or third-party waivers. CTC will accept tuition assistance/sponsor agreements in lieu of payments at the time of registration, but students will be responsible for all amounts owed if the sponsoring agency does not remit payment in full.

Other Fees *
In addition to tuition, the following fees are required or applicable. Fees are nonrefundable.

Return Check Fee.................................................................$25
Diploma Replacement....................................................$25
Transcript and Records (per copy).................................no charge
Course Challenge............................................................no charge
Instructional Materials (as required by contract, per credit hour) (non-refundable) ............................................ $30-$40

Tuition and Fees - Noncredit Courses
Tuition and fees for Continental and International locations are determined by contracts and agreements.

* All tuition and fees are subject to change as approved by the Board of Trustees.

Refunds
No tuition refunds will be made except in the case of cancellation or official withdrawal from Central Texas College or from a course. For students receiving military tuition assistance, the effective date of withdrawal is the date the Application for Withdrawal/Refund is filed by the designated Education Center or Navy College office representative or processed through the GoArmyEd portal for Army TA. The instructor must sign the withdrawal form before or after the effective withdrawal date.

For self-pay students refunds are computed from the date the Application for Withdrawal or Refund is filed with the designated CTC Student Services Office, CTC Records Office, or GoArmyEd portal.

Special conditions apply to students who receive federal, state, and/or institutional financial aid or VA benefits. The refund is generally calculated based upon the student’s last date of attendance.

Although the following refund schedule is provided, actual refunds for tuition and fees are based upon the contract, agreement, or memorandum of understanding at the location for which the College operates.

- 100% Withdrawal before the first day of the term or semester.
- 75% Withdrawal if not more than 1/8 of the term or semester has elapsed.
- 25% Withdrawal if not more than ¼ of the term or semester has elapsed.
- 0% Withdrawal if more than ½ of the term or semester has elapsed.

- Refund schedule is calculated based on the first calendar day of the term and includes all weekdays, Monday through Friday, which are not designated official Central Texas College holidays.

- Central Texas College will allow hours to be dropped and re-added without penalty to the student if the following conditions are met:
  - The transaction must be completed prior to the census date of the dropped hours.
  - The start date of the added hours must be prior to the census date of the dropped hours.
  - The exchange must be an equal one.
  - The exchange must occur simultaneously as a single transaction.

When the charges for hours are dropped without concurrently added hours, they will be refunded in accordance with the refund policy outlined previously. Charges for hours added at a later time will be applied based on the current approved tuition and fee schedule and will not offset charges from prior drops.

- Tuition and fees paid directly to the Institution by the Veterans Administration, Title IV (Financial Aid Programs), a sponsor, donor, or scholarship shall be refunded to the source rather than directly to the student.

- Emergency withdrawal will be considered to be filed as of the date of the emergency. Students must submit written proof of emergency such as military emergency leave orders or medical certification of family emergency. Refunds under emergency conditions will follow the tuition refund schedule listed above.
• Special consideration is available under the following conditions:
  - Any student suffering a catastrophic illness or accident or death in the immediate family.
  - Active duty military students who receive PCS or deployment orders and dependent family members of active duty military who receive PCS orders after the start of classes which require the service member to depart before the class is completed.

A student must present a copy of deployment orders, medical certification, death certificate, or published obituary along with the refund request to be eligible for special consideration. Refunds under these conditions will follow the tuition refund schedule listed below.

- If withdrawing before ¼ of the term has elapsed (before the last day for 25 percent refund), 100 percent refund.
- If withdrawing after ¼ of the term has elapsed and prior to the midpoint of the course, 50 percent refund.
- After the midpoint of the course, no refund will be given.

Please note that NTC rotations and field exercises are NOT considered deployments under this policy.

Textbooks

Prices are based on the publisher’s price and may vary from term to term. Prices are available from the Central Texas College Bookstore website at www.ctcbookstore.com. Please visit our website for complete information regarding returns and exchanges.

Determining Residence Status

Students enrolled in courses at CTC locations outside Texas pay the tuition and fee rates based upon the applicable military contract or memorandum of understanding. Bona fide Texas residents enrolled in distance learning courses through the Central Campus in Killeen may be eligible for in-state tuition rates. Certain conditions apply, and substantiating documents to affirm residence are required. Refer to the Texas Campuses catalog, which is available online at the CTC website www.ctcd.edu.

Student Financial Assistance

Financial Aid Programs

The Financial Aid Office coordinates and administers the financial aid programs for the College. The Financial Aid Office provides financial assistance to students who have a financial need and who would otherwise be unable to attend Central Texas College. The student and the student’s family are primarily responsible for the cost of higher education. However, scholarships, grants, loans, work opportunities, and other financial benefits are available to students who qualify for these programs.

Most financial aid is awarded on the basis of need. Financial aid programs require annual applications. The Financial Aid Office will make every effort to assist the student in meeting his or her need using all resources available. Each student has certain rights and responsibilities in the financial aid process. Therefore, it is important to read all information carefully to ensure compliance with regulations governing receipt and maintenance of financial aid funds. Failure to comply with regulations may result in loss of funding and/or eligibility.

All applicants for financial aid are required to:

• Apply for admission to the College.
• Be degree or certificate candidates.
• Complete and file a Free Application for Federal Student Aid (FAFSA) with the United States Department of Education each year. Central Texas College must be selected as an institution in order for the financial aid office to receive the student’s FAFSA application. Central Texas College’s school code is 004003. Students are urged to apply early for optimum financial aid benefits.
• Complete verification is required if the student is selected by the Department of Education for verification.

Deadlines to apply for financial aid are:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>November 1</td>
</tr>
<tr>
<td>Summer</td>
<td>April 1</td>
</tr>
</tbody>
</table>

Applications will be accepted and processed after these dates, but you will experience delays in receiving eligible funds for registration and books. All applications will be processed in order of receipt in the Financial Aid Office. Scholarship deadlines differ. Visit the Financial Aid Office for more information or our website at www.ctcd.edu.

Selective Service Registration Compliance

An amendment to the Military Selective Service Act (Pub. L. 97-252) requires that, beginning with 1983-84 award year, any student required to register with Selective Service who fails to do so is ineligible for Title IV student financial aid. Among Title IV financial aid applicants, men (citizens and eligible non-citizens except permanent residents of the Trust Territory of the Pacific Islands and the Northern Mariana Islands) who are at least 18 years old and born after December 31, 1959, and who are not currently on active duty with the armed services must be registered.

The law specifically requires that, in order to receive Title IV aid, all financial aid applicants are required to file a Statement of Registration Compliance.

Eligibility Requirements for Financial Aid

In general, a student is eligible for financial aid if he or she meets the following requirements:

• Is a United States citizen or an eligible non-citizen,
• Has a demonstrated financial need,
• Is making satisfactory academic progress (as defined by the college) in the course of study,
• Is not in default on a Federal Stafford Loan,
• Is enrolled at the college for the purpose of obtaining a degree or certificate,
• Has a high school diploma or G.E.D., or meets special ability-to-benefit requirements;
• Is registered with the selective service if required to do so; and
• Does not owe a refund on a Federal Pell Grant or other Federal financial aid awards.

NOTE: CTC students must select an eligible program of study prior to the first disbursement of financial aid.
Satisfactory Academic Progress Policy, Financial Aid

All students enrolled at Central Texas College are required to make satisfactory academic progress toward degree or certificate objectives for continued enrollment and/or to remain eligible to receive financial aid. The assessment will be made on a semester basis regardless of the number of semester hours attended or the number of hours attempted during the year.

Grades of A, B, C, D, F, N, and P are considered hours completed. Drops, withdrawals, FN, IP, XN, and course repeats are counted as hours attempted. All coursework attempted at the college and any transfer work completed is considered when determining satisfactory academic progress regardless of whether the student previously received financial aid.

Course repeats are counted as attempted hours and either earned or unearned depending upon the grade assigned as noted above.

All college-level course work attempted at the College is considered when determining satisfactory progress regardless of whether the student previously received financial aid.

Evaluating Satisfactory Academic Progress

The standards against which all students are measured include Qualitative, Quantitative and Maximum Time Frame standards. The academic record for all students is reviewed after the end of the fall and spring semesters. After the evaluation, emails will be sent to the students who are being placed on probation about their academic progress and to students whose aid is being suspended due to failing to meet minimum financial aid satisfactory academic progress standards.

Grade Point Average/Qualitative Standard

Students applying for financial aid must have a 2.0 cumulative grade point average on all college-level credit hours earned prior to the semester for which aid is requested. In addition, students must maintain a 2.0 cumulative grade point average to remain eligible for aid. Should the student’s GPA drop below 2.0 the following actions will be taken:

- The first time the GPA drops below 2.0 the student will be placed on financial aid probation for the following semester enrolled.
- At the end of the probation semester if the student’s GPA is 2.0 or above, the student will be removed from probation and all actions will be terminated. If the student’s GPA has improved but is still below 2.0, the student will be extended on probation for another semester. If after two semesters the GPA is still below 2.0, the student will be placed on suspension and will not be eligible for financial aid until the student’s GPA meets the 2.0 standard.

Quantitative Standard/Maximum Time Frame

In order to meet the quantitative standard students must complete 75% of all hours attempted regardless of whether financial aid was received for the hours. Withdrawals, incompletes, repeated courses, and failure grades will count as attempted coursework.

A student may apply for, and if eligible, receive financial aid for attempted credit hours that do not exceed 150% of the minimum number of hours required to complete the student’s declared program of study. Credit hours transferred to Central Texas College are counted when calculating the 150% maximum. Students who have attempted 150% of the allowed number of credit hours become ineligible to receive additional financial aid disbursements for hours in excess of the 150% maximum regardless of their cumulative GPA, and regardless of whether or not financial aid was received during previous semesters.

Examples:

1. For a student completing an associate’s degree program that requires 66 hours, the student must complete the degree within 99 attempted hours. The student will lose eligibility for additional financial aid to complete the program after 99 attempted hours.

2. For a student completing a certificate program that requires 30 hours, the student must complete the certificate within 45 attempted hours. The student will lose eligibility for additional financial aid to complete the program after 45 attempted hours.

Financial aid recipients are expected to complete a program of study in the scheduled amount of time. A student’s progress may be evaluated for only one program at a time. A student who is concurrently completing more than one program or major, or who is returning to complete a second degree, may request additional time to complete the program. Students may not be allowed financial aid funding for multiple changes of programs for the purpose of extending financial aid eligibility.

NOTE: ALL students will be limited to 150 hours attempted maximum time frame which includes transfer hours.

SAP Treatment of Developmental Course Work

An otherwise eligible student may receive financial aid for a maximum of 27 attempted credit hours in developmental/remedial course work. Once the 27 credit hours maximum is reached, additional developmental credit hours will not be used to calculate the award amount. Developmental hours are not included in the calculation of the overall maximum time frame to complete the students’ academic program or in the cumulative GPA calculation. However, developmental attempts are used in the completion rate calculation.

Evaluation Outcomes

Financial Aid Automatic Suspension

If during a semester a student completely withdraws, receives grades of all Fs, all Ns or a combination of Ws, Fs and Ns, the student is placed on automatic suspension without being given a warning. To re-establish eligibility, the student must enroll in and successfully earn a minimum of 6 core semester credit hours with a 2.0 GPA. If the student chooses to enroll in more than the 6 core semester hours that are required, the student must complete at least 75% of the semester load with a 2.0 GPA to re-establish eligibility. A student placed on a suspension status will not receive financial aid assistance until this status has been cleared.

Financial Aid Probation

A student who does not meet the Satisfactory Academic Progress criteria will be placed on financial aid probation. While on probation, the student will continue to receive financial aid for which he/she has qualified.
**Financial Aid Suspension**

If the student does not meet the minimum Satisfactory Academic Progress criteria at the end of his/her probationary period, the student will be suspended from receiving financial aid. Students placed on financial aid suspension may continue to enroll at the college. However, they must pay their own expenses, to include tuition, fees, room and board, and other college costs.

**Reinstatement of Eligibility**

Financial aid eligibility will be reinstated after a student meets the Satisfactory Academic Progress criteria listed above, both the completion rate (75 percent) and cumulative grade point average (2.0) or has an appeal approved. Financial aid will not be reinstated for violations of Quantitative Standards or Qualitative Standards until the appeal has been approved by the Financial Aid Appeals Committee.

**Appeal Process**

Central Texas College recognizes that students sometimes encounter circumstances beyond their control that can adversely affect their academic progress. Any student subject to suspension of financial aid eligibility may appeal to the Financial Aid Office for a review of the decision. The appeal must include an explanation and documentation of the reason(s) why the minimum academic standards required by this policy were not met and that the adversity has been resolved. All appeals must be attached to the Qualitative or Quantitative Appeals form that can be obtained from the Financial Aid Office or website. The Financial Aid Appeals Committee will review the appeal and the student will be notified by email after the appeal decision has been made. All documents pertinent to the appeals process become part of the student’s financial aid record. If the petition is denied, the student has the right to request that the appeal decision be reconsidered by the Financial Aid Director. This appeal must be turned in within 10 days of receiving notification of the decision denying the appeal. The decision of the Director is final.

**NOTE** There is no appeal for failing to complete within the maximum time frame.

As per Federal regulations, a student who is not making Satisfactory Academic Progress can appeal to the Financial Aid Office if the student falls under one or more of the following hardships:

- Death of an immediate family member of the student (parents, siblings, spouse, children).
- An injury or illness of the student or immediate family member (parents, siblings, spouse, children).
- Other unusual circumstances that prevented you, the student, from making satisfactory academic progress. For example, last enrollment was ten years ago or more.

**Break in Enrollment**

When a student has a break in enrollment and is readmitted, the SAP status for prior terms will apply. For example, if a student is placed on financial aid suspension at the end of the spring term, does not return in the fall term, and is readmitted the next spring term, the student will continue in a financial aid suspension status for that term.

**Drops and Withdrawals**

Students who receive Title IV (PELL/FSEOG/ACG/Loans) financial aid and drop, withdraw, or are administratively withdrawn from courses during the financial aid year may be required to repay financial aid received and may be placed on financial aid probation or suspension. Repayment is based upon the student’s last date of attendance. Detailed information is provided in the Return/Repayment of Title IV Funds section of this Catalog.

**Transfer Courses**

Transfer students entering CTC must be enrolled in a program of study that leads to an associate degree, certificate, or is transferable towards a bachelor’s degree. All previous college transcripts must be submitted to the Incoming Transcripts section of Student Services, and evaluated by the appropriate Campus representative such as the Guidance Counselors at the Central Campus. Transfer courses are not considered in determining eligibility under the qualitative measure but are considered in the quantitative maximum timeframe measurements.

**Types of Aid Available**

Financial Aid is categorized into two types: Gift Aid and Self-Help Aid.

- Gift Aid includes grants and scholarships that do not have to be repaid.
- Self-Help Aid includes student employment and student loans. Student loans must be repaid with few exceptions.

**Federal PELL Grant**

The Federal PELL Grant is awarded to assist students in pursuing their first undergraduate degree. The intent of the Federal PELL Grant is to provide a foundation of financial assistance to supplement the cost of postsecondary education.

PELL Grant funds will be used to pay for tuition, fees, books, and unpaid Residence Hall and Married Student Housing costs. Balance checks for unused PELL funds will not be disbursed to any student who has a balance due to CTC.

**Loans**

**Federal Family Education Loan Program (FFELP)**

Central Texas College participates in the Federal Stafford Loan Program for Dependent and Independent Undergraduate Students and Federal PLUS Loan Program for parents of Dependent Students.

**Federal Loan Eligibility Requirements**

- Student must complete the FAFSA.
- Student must meet academic progress as determined by the Financial Aid Office.
- Student must be enrolled at least half-time (six semester hours per term).
- Student must be a citizen or eligible non-citizen.
- Student must not be in default on any federal loan or owe a refund back to any federal program.
- Student must not have already exceeded aggregate loan limits.
Federal Stafford Loan Maximums

<table>
<thead>
<tr>
<th>Classification</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman (0 to 29 credit hours) *</td>
<td>$3,500*</td>
</tr>
<tr>
<td>Sophomore (30 to 72 credit hours) **</td>
<td>$4,500**</td>
</tr>
<tr>
<td><strong>Dependent Undergraduate</strong></td>
<td></td>
</tr>
<tr>
<td>$3,500*</td>
<td>No more than $3,500 of this amount may be subsidized*</td>
</tr>
<tr>
<td>$4,500**</td>
<td>No more than $4,500 of this amount may be subsidized**</td>
</tr>
<tr>
<td><strong>Independent Undergraduate</strong></td>
<td></td>
</tr>
<tr>
<td>$7,500 – No more than $3,500 of this amount may be subsidized*</td>
<td>$8,500 – No more than $4,500 of this amount may be subsidized**</td>
</tr>
</tbody>
</table>

NOTE: The amounts shown in the chart above are the maximum amounts that you may borrow as a full-time student (12 hours per semester) for the academic year.

**Subsidized Stafford Loan**
- Available to students who demonstrate financial need determined by the FAFSA.
- Lending institutions, such as banks or credit unions provide the funds for this loan.
- The U.S. Department of Education pays the interest on this loan:
  - While you’re in school at least half-time.
  - For the first six months after you leave school (referred to as a “grace period”).
  - During a period of deferment (an approved postponement of loan payments).

**Unsubsidized Stafford Loan**
- Does not require students to demonstrate financial need.
- The U.S. Department of Education does not pay interest on unsubsidized loans.
- To determine the amount of your unsubsidized loan, the school will use this equation:
  
  \[ \text{Cost of attendance} = \text{Federal Pell Grant (if eligible)} - \text{Subsidized Stafford Loan amount (if eligible)} - \text{Any other financial aid you receive} \]

  = Amount of unsubsidized loan (up to the maximum loan amount)

**Stafford Entrance Loan Counseling**
All first-time student loan borrowers at Central Texas College must attend entrance counseling before your loan will be processed. Entrance Counseling is available by going directly to http://www.mappingyourfuture.org. This session provides additional information regarding loan programs such as monthly repayments, deferments, grace period and cancellation.

**Stafford Exit Loan Counseling**
Federal regulations require all students who received a Federal Family Education Loan to complete a mandatory exit counseling prior to graduation or after dropping below half-time attendance. Exit counseling is available by going directly to http://www.mappingyourfuture.org. You will need a list of three different references (relatives or friends) that will always be in contact with you. Include their name, address and phone number.

**Repayment**
When you borrow a student loan, you sign a legal document called a promissory note, which establishes your obligation to repay that loan, and in certain cases, future loans under that same promissory note. The most important thing you can do during repayment is to stay in close contact with your lender. If you have trouble making your monthly payments and need help, contact your lender to learn more about the many options available to you.

Here is a brief summary of the repayment guidelines established in your promissory note:
- Your payments are expected on a monthly basis.
- Unless your lender agrees otherwise, the minimum monthly payment will be at least $50.
- Your minimum annual payment will not be less than the amount of interest due and payable.
- The maximum time allowed for repayment is usually 10 years.
- You may prepay on your loan at any time without penalty. This will reduce the total amount of interest you pay on your loan.
- Your lender will give you the opportunity to choose a standard, graduated, income-sensitive, or extended repayment schedule.

**Return/Repayment of Title IV Funds**
The 1998 Re-authorization of the Higher Education Act requires an institution to have a fair and equitable Title IV Funds return/repayment policy for students who received federal aid or whose parents borrowed under the Federal PLUS program. Equitable means that the policy must be consistent with the standards approved by the Department of Education. A fair and equitable return repayment policy is defined as:

1. Students who withdraw from all courses before completing 60 percent or more of the current term must return/repay a portion of the Title IV Funds (PELL, Supplemental Educational Opportunity Grant, ACG and Loans) disbursed. Federal Loans are repaid in accordance with the terms of the loan. The amount of funds to be returned/repaid will be calculated using the following formula:

  \[ \text{Total amount Disbursed (PELL Grant, SEOG, ACG and Loans)} - \text{Amount of Institutional Cost Returned by School (if any)} - \text{Amount of aid earned by student} - \text{Amount of Aid to be returned/repaid by the student} \times 50 \text{ percent} \]

2. When a student withdraws/drops from courses, the student must ensure a Last Date of Attendance is recorded on the withdrawal/drop request. This Last Date of Attendance is the date used to determine how much Title IV Aid was earned and unearned. Failure to obtain a Last Date of Attendance may result in additional funds to be paid by the student. Before withdrawing/dropping any course, financial aid students are encouraged to contact the Financial Aid Office to speak with a Financial Aid Counselor.

3. If, after withdrawing/dropping from a course, a student desires to re-enroll in the same course during the same semester/term the following will apply:
   a. The student must obtain written permission from the instructor.
   b. The student must sign a written declaration stating he or she will complete the course.
   c. If the student fails to complete the course, the initial withdrawal date will be used to calculate the amount of aid to be returned/repaid.
4. Students will be notified in writing the amount of Title IV Funds that must be returned/repaid. Students must ensure their current address is on file with the Records Office. Students will have 45 days from the date of the letter to pay CTC in full. If the account is not paid, CTC turns it over to the Department of Education (DOE). The student can make payment plan arrangements with DOE to repay within two years.

5. Students may inquire at the Business Office, Central Campus in Killeen for answers to questions concerning Return/Repayment of Title IV Funds. Students may email michael.oliver@ctcd.edu.

**NOTE** Federal, state and institutional rules and regulations regarding financial aid are subject to change.

**Veteran Benefits**

Central Texas College’s programs are approved for those who wish to attend and receive benefits under the Post-Vietnam Era Veterans Educational Assistance Program, the Veterans Educational Assistance Act of 1984, Chapter 106-Reservists Education Bill, Chapter 30-VA Education Bill of 1986, Chapter 33-Post 9/11 Veterans Assistance and family members qualified for VA Educational Benefits, Chapter 35.

Please provide the Veterans Services Office with a copy of the Certificate of Eligibility for your Chapter, which is issued by the Department of Veterans Administration.

If you wish to attend with the aid of veteran benefits, inquire at the Office of Veteran Services before registration to obtain needed information relative to your enrollment and certification of attendance to the Veterans Administration. All new veteran students must furnish the Veteran Services Office a copy of their DD214.

You must provide an approved, signed certificate/degree plan to the Veteran Services Office before certification of your initial semester. Certificate/degree plans are available through the Guidance and Counseling Office or through departmental advisors. Transfer students should have copies of all previous transcripts for initial counseling sessions. It is your responsibility to inform the Office of Veteran Services of any changes in enrollment status. The monthly rates of payment to veterans are provided for by Public Law 94-502.

You should have military credit evaluated at the close of the first semester or upon successful completion of 6 semester hours and furnish the Veteran Services Office with a copy of the updated degree plan. Also, any transfer credits from previous education must be evaluated before the close of the first semester and a copy of the updated degree plan furnished to the Veteran Services Office.

Records of progress are kept by Central Texas College on veteran and non-veteran students alike. Progress records are furnished to the students, veterans and non-veterans alike, at the end of each scheduled school term.

**NOTE** You must advise the Office of Veteran Services each semester/term of courses in which you are enrolled.

**Central Texas College Foundation**

For those students attending classes at campuses outside the College tax district, the Central Texas College Foundation has 27 scholarships, which give some 38 awards to competitively selected students every year. One application will place a student in consideration for all of these awards. A student must file an application for selection with the Foundation office when the award cycle is announced. The announcement usually occurs between January and March of each year and will be for awards available in the fall semester. Students, including international students, may apply for any Foundation scholarship for which they are otherwise eligible. There are specific requirements for eligibility that apply to individual scholarships and the student is advised to read the Foundation’s Scholarship Guidelines when it is announced each year. In making application for these scholarships, the applicant must have applied to attend CTC, have official transcripts from previous colleges attended on file with CTC, and completed the Free Application for Student Financial Assistance (FASFA) as verified by the CTC Student Financial Assistance office.

**Student Services**

**Guidance and Counseling**

Central Texas College maintains a staff of academic advisors at various locations throughout the world. Visit your local CTC representative for program and course selections, or the designated Education Center or Navy College Office representative. If you do not have a designated representative at your location, contact your campus Student Services Office. If you are at a location without a CTC representative, contact the Student Services Office located on the Central Campus in Killeen, Texas. For students enrolled in distance learning programs, there are several CTC distance learning advisors who can assist you. Refer to the Personnel section of this Catalog for points of contact.

**CTC Transcripts**

Students may obtain an unofficial CTC transcript and view the status of a CTC transcript request from their Student Account in WebAdvisor. To view the status of a CTC transcript request, go to the Student Menu and click on the Transcript Request Status link under the Academic Profile section.

Information and forms for ordering transcripts are available from the CTC web site at www.ctcd.edu. Transcripts may be provided upon your written request. Email requests are accepted if the request is to issue a transcript solely to another institution of higher education. Effective Spring 2010 CTC no longer charges for CTC transcripts. When a transcript is requested to be sent priority mail or express mail, the student is responsible for the cost. This must be paid at the time of the request. However, CTC reserves the right to limit the number of transcripts issued at any one time. A complimentary free official transcript is provided upon graduation. Requests to fax transcripts are limited to locations in the United States to include Alaska and Hawaii; and requests to fax transcripts overseas are limited to a military education center or CTC site office. It is the decision of the receiving institution to accept a facsimile transcript as official or not. Transcript requests are honored as soon as possible in the order of receipt. During peak periods such as graduation, end of the semester, registration, and college closings, additional time will be needed to process requests.

You may be denied your transcript if you have an outstanding obligation to Central Texas College. The obligation may be due to a library fine, parking ticket, returned check, non-repayment of financial aid, failure to comply with admissions requirements, or any other indebtedness to CTC.
Testing Services
Central Texas College provides an extensive testing program, which supports traditional classroom instruction and distance learning courses.

Placement Tests for English and Mathematics
Students must take placement tests to determine their eligibility to enroll in English and mathematics courses or otherwise meet prerequisites through traditional coursework. Students who are active duty/prior military and/or degree holders should contact their local CTC representative as special conditions apply to mathematics placement. Acceptable placement tests are the ASSET, the ACT Accuplacer, the COMPASS, the SAT, the ACT, and the Texas Higher Education Assessment (THEA). Online screening exams in English and mathematics are available for students who are unable to take one of the designated placement tests. Test scores are valid for five years.

Proctored Testing for Distant Learners
CTC requires proctored testing for most distance learning courses. It is the student’s responsibility to locate a suitable test proctor, make arrangements, and immediately provide the CTC Testing Office with the proctor information or changes to the original proctor. You must submit proctor information using the Test Proctor Submission Form available on the CTC distance learning website.

To locate a proctor, military students should check with their Education Center; Navy College Office; or the installation’s testing center, library, or learning center. Other students may locate a proctor at a local college, library, high school, or other suitable facility. You may also contact the CTC Testing Office to request testing site options and to request information about persons who qualify as proctors.

Most tests are available online. Upon submission and approval of the Test Proctor Submission Form, the CTC Testing Office personnel will coordinate and provide access information to proctors at the beginning of the course. If you submitted a form but your proctor has not received this information within 5 to 7 business days, the proctor should contact the CTC Testing Office at online.testing@ctcd.edu.

Testing, eArmyU Students
The CTC Testing Office will provide your Education Center’s testing office representative with test availability and access information at the beginning of the course. This information is provided to the Education Center at the military installation, which is listed on your admission application at the time of course enrollment.

If you are not near a designated eArmyU test site, please refer to the list of approved test sites on the CTC Distance Learning website at http://online.ctcd.edu/testingrequirements.cfm to ensure your tests can be forwarded as soon as possible.

Student Responsibilities
The CTC Testing Office cannot be responsible for test delays due to lack of complete test proctor information if not provided in a timely manner. If you find yourself in this situation, contact your course instructor immediately. The instructor makes the final decision on whether to allow an extension on a test.

Institutional Challenge Examinations
Students may request permission to take challenge examinations for certain courses. An application for challenging a course must be submitted with the nonrefundable fee through the Campus office serving the student’s location to the CTC Testing Office in Killeen, Texas. The student coordinates with the local CTC representative for the time and place to take the examination. Students are eligible to take a challenge exam upon successful completion of six semester hours with a “C” or higher with CTC. To obtain credit, the student must pass the examination with a minimum grade of “D” Retesting is not permitted, and the fee is forfeited. Credit awarded for successful completion of the challenge exam cannot be used to satisfy CTC residency requirements.

Evaluation of Previous Education and Training
Nontraditional Education
Central Texas College recognizes that each student’s educational needs, goals and experiences are unique and that individuals are skilled in many areas of college work that are not formally documented on transcripts. It is the policy of Central Texas College to recognize nontraditional learning experiences and to award college credit in all cases where such credit is appropriate. In keeping with this policy, Central Texas College has established the Individualized Career Evaluation Process (ICEP). The purpose of ICEP is to systematically correlate business, industry, government and military education received by nontraditional methods with institutional curricular requirements. All students, including military and former military personnel, are eligible for credit consideration based upon documentation of their previous learning experiences.

The nontraditional methods usually considered applicable toward a degree at Central Texas College are:

- Chauncey Group International - DSST Program.
- College Level Examination Program (CLEP), both the General and Subject Examinations.
- Excelsior College Examinations (ECE).
- Defense Language Proficiency Tests (DLPT).
- American College Testing Program (ACT).
- Scholastic Assessment Test (SAT).
- College Board Advanced Placement.
- Military Service Schools, Military Occupational Specialties (MOSs), Ratings and other Military Job Training and Experience as recommended by the American Council on Education (ACE).
- Civilian Education and Training as recommended in The National Guide to Educational Credit for Training Programs.
- Correspondence courses and other forms of distance education offered by regionally accredited institutions.
- Automotive Service Excellence Tests.
- Refrigerant Transition and Recovery Certification (EPA Type I, II, III, and Universal).
- American Welding Society Certification Program.
- Others to include certain types of civilian training, specialized training and work experience.

Evaluation Procedures
To apply for evaluation and a final certificate and degree plan, submit an Evaluation Request form to Evaluations, Central Texas College, or at the administrative office serving your area. Addresses are listed in this catalog.
The Servicemembers Opportunity Colleges (SOC) Consortium is a member of the Servicemembers Opportunity Colleges (SOC) Consortium and the SOC Degree Network System. Established in 1972, it is a consortium of national higher education associations and more than 1,700 institutional members. SOC Consortium institutional members subscribe to principles and criteria to ensure that quality academic programs are available to military students, their family members, civilian employees of the Department of Defense (DOD) and Coast Guard, and veterans. A list of current SOC Consortium member institutions can be found on the SOC website at http://www.soc.aascu.org.

**SOC Degree Network System**
The SOC Degree Network System (DNS) consists of a subset of SOC Consortium member institutions selected by the military services to deliver specific associate and bachelor's degree programs to servicemembers and their families. Institutional members of the SOC DNS agree to special requirements and obligations that provide military students, their spouses and college-age children with opportunities to complete college degrees without suffering loss of academic credit due to changes of duty station.

SOC operates the 2- and 4-year Degree Network System for the Army (SOCAD), Navy (SOČNAV), Marine Corps (SOCMAR), and Coast Guard (SOČCAST). Refer to the SOC Degree Network System -2 and -4 Handbooks to view associate and bachelor's degree programs, location offerings, and college information. An electronic version of the Handbook is posted on the SOC website, http://www.soc.aascu.org, on the SOCAD, SOČNAV, SOCMAR, and SOČCAST home pages.

**Career Center**
The Career Center, located on the Central Campus in Killeen, Texas, provides career planning and employer connections to current CTC students and alumni, high school students, and the general public. To access Career Services online or for additional information and assistance, go to www.ctcd.edu (follow the Alumni and Friends or Quick Links).

**Student Support Services**
Student support services are provided to students who need assistance with academic tutoring, and who have documented disabilities. Students should contact the designated campus representative at their location. The CTC website provides contact information for services supported through the Central Campus.

**Disability Support Services**
The Disability Support Services provides assistance to distant learners with a documented learning or physical disability. Appropriate documentation of the disability is required in order to access services or receive course accommodations. Students should contact their local CTC representative at least 15 days before the course start date.

**Distance Education**
Distant learners have access to the same support services as campus-based students. Services provided to distant learners include but are not limited to, financial aid, veterans' benefits, career planning, career advisement, library, bookstore and special assistance. These services may be obtained by email, phone, Internet or through any of the CTC campus locations. The Distance Learning web site contains web-based tools as well as points of contact for all student services. Technical support for distant learners is available 24 hours a day, seven days a week. A Distant Learner Handbook is located on the CTC Distance Education website and is provided in the distance education course.

**Campus Life**

**Alumni and Friends Association**
The CTC Alumni and Friends Association is open to any individual or group that wants to help the association achieve its mission to develop and maintain the love and loyalty of graduates, former students and community members for CTC. Current objectives include:
- Keeping in touch with former and returning students.
- Fostering a spirit of loyalty and good will toward the College.
- Encouraging student enrollment.
- Developing a corps of alumni who serve as CTC ambassadors.

In addition to assisting current and future CTC students achieve their goals through the Association’s scholarship program, members also receive the following benefits:
- Free career placement services.
- Notice of College activities and special alumni events.
- Go on record as a CTC booster.
- An Alumni Membership Card.

To learn more about the Alumni and Friends Association, visit the CTC website at www.ctcd.edu.
Bookstore
The CTC Bookstore, located in the Student Center on the Central Campus, carries new and used textbooks, supplies, trade books, and general merchandise. Distant learners may purchase textbooks online. Students enrolled in traditional classroom courses taught outside of Texas may obtain further information on how to purchase textbooks from their local CTC representative.

Refund Policy, Textbooks Purchased Through the CTC Bookstore
You are responsible for checking to ensure that you have the correct book and correct edition. Check the course syllabus or contact the department or instructor to verify that you have the correct course materials.

A receipt is required to initiate a return, refund or exchange. In addition to the receipt, customers seeking a refund on items purchased with a credit or debit card must present the card used and the refund will be credited to the card. A cash refund will not be given for purchases made with a credit or debit card. All returns and exchanges are subject to the following guidelines:

Grace Period
Starts on the first day of the semester or term and ends according to the schedule below:

- 14 business days for 12-week and 16-week courses
- 7 business days for 8-week, mini-term, or self-pace courses

Book Condition
To obtain a full refund, all items must be in their original state and/or packaging. Shrink-wrapped materials must remain sealed. Items must be clean. Items may not contain any markings or highlights. A student will receive a 50 percent refund if he or she writes in a new textbook.

Non-Returnable Items
No returns, refunds or exchanges are given on optional books, study guides, manuals, workbooks, or trade books. Do not purchase books unless you are certain you want them, regardless of their “required” status. No returns, refunds or exchanges will be given on supplies, Skill Center books, spiral-bound books, modules, gifts, software, or clothing.

Buybacks are held every day and at the end of each Central Campus fall and spring semesters. Several factors affect the price you receive. Books that have no wholesale or resale value will not be bought.

Library Services
Located on the Central Texas College Campus in Killeen, the Oveta Culp Hobby Memorial Library (HML) provides library services to all registered students, faculty and staff worldwide. Online resources are provided through the library’s website www.ctcd.edu (click on library). The library home page is the main vehicle for providing library services and materials; access is available 24 hours a day. The Library catalog is password free and any book from our collection can be sent to a patron through the Books by Mail program. Information about B-B-M is available on the web page Through the “Online Books Page” a free link to the University of Pennsylvania; students can access electronic books, periodical articles and other information.

Access to the virtual collection is from the library web page link “Online Databases”. A user name and password is required from off campus, the service is available 24 hours a day 7 days a week. Through the 75 electronic databases, users can access online tutorials, periodical citation indexes, full-text periodical articles, reference resources, encyclopedias, legal documents and e-books. Information resources are available by phone and e-mail; there is a professional librarian on duty all the hours the library is open. Remote reference request through “Ask an Online Reference Librarian” is checked several times a day 7 days a week, and there is a 24 hour “turnaround” time to all queries.

Academic Policies

Academic Load
A normal academic load is 15 to 18 semester hours per long semester. Central Texas College reserves the right to limit the course load carried by any student. Typical course loads are listed below.

- Full Time
  - 12 or more semester credit hours during the 16-week fall or spring semester.
  - 8 or more semester credit hours during the 10-week summer session.
  - 6 semester credit hours per 8-week term.
  - 4 or more semester credit hours per 5 ½-weeks summer semester.

- Three-Quarter Time
  - 9 to 11 semester credit hours during the 16-week fall or spring semester.
  - 5 semester credit hours per 8-week term.

- Half Time
  - 6 to 8 credit hours during the 16-weeks fall or spring semester.
  - 3 to 4 semester credit hours per 8-week term.

NOTE: Students attending college with financial aid or veterans benefits assistance may be required to meet academic course load standards other than those noted above. Contact the CTC Office of Student Financial Assistance or the CTC Veteran Services Office before registering for courses.

Maximum Load
Except as stipulated in the program of study, a student will not be permitted to enroll in more than six academic courses or more than 18 semester hours during any combination of terms within a 16-week semester. The maximum load for a 5 1/2 week summer semester is eight semester hours. The maximum credit a student can earn during the entire summer session is 14 semester hours. A student wishing to enroll in more than the maximum load must receive approval from the campus dean or his or her designee.

Satisfactory Progress Standards
Each student has the responsibility for attending class and pursuing the objectives of each course that the student is officially enrolled.
Class Attendance and Course Progress

Regular and punctual class attendance at all scheduled classes is expected. Each faculty member will inform students of the attendance policy and the course objectives at the initial class meeting.

- Students are required to be in class on time. Instructors may choose to lower a student’s grade because of tardiness. Excessive tardiness is disruptive to the educational process and may result in disciplinary action. Due process and the right to appeal will be provided to students subject to disciplinary action.
- Only instructors can authorize an excused absence. Regardless of the reason for the absence, the student is responsible for completing all coursework covered during any absence.
- Failure to meet the attendance requirements in a course may result in a lower grade or failure in the course.
- An instructor may initiate an administrative withdrawal if a student fails to meet the attendance requirements or is not making satisfactory progress toward the course objectives. The instructor may assign a grade of “FN” or “XN” at the time of the administrative withdrawal.
- Students enrolled in distance learning courses are expected to maintain constant progress throughout the course. Failure to do so may result in the student being administratively withdrawn by the instructor.

Excessive Absences

Students who have not attended class by the 12th class day of a 16-week course or the 6th class day of an 8-week course (or the census date of other course lengths) will be administratively dropped with a grade of “W” by the instructor. Students may also be administratively withdrawn from any class when their absences exceed a total of four class meetings for a 16-week course or three class meetings for less than 16-week courses and; in the opinion of the instructor, the student cannot satisfactorily complete the course.

Failure to Maintain Satisfactory Progress

Readmissions or enrollment may be denied at any time a student fails to maintain satisfactory progress following an academic review by the appropriate Campus Dean. If a student is determined to be ineligible for continued enrollment or re-enrollment at Central Texas College, the student will be notified in writing of the action taken. A student denied enrollment may appeal the decision of the Campus Dean. The appeal must be submitted in writing within seven (7) working days of notification. The appeal must be submitted to the office of the Deputy Chancellor responsible for the campus. The decision of the Deputy Chancellor will be final.

Withdrawal From Classes

It is the student’s responsibility to officially drop a class if circumstances prevent attendance. An instructor cannot initiate a withdrawal based on the student’s request. GoArmyEd students should contact their ACES counselor before withdrawing and withdraw through the GoArmyEd portal. All other students who desire to or must officially withdraw from a course on or after the first scheduled class meeting must file an Application for Withdrawal with the local CTC representative by the last date to withdraw. Students enrolled in distance learning courses and who do not have access to a local CTC representative should submit a withdrawal form to online mentors@ctcd.edu or the CTC Records Office in Killeen, Texas.

- Applications for Withdrawal will be accepted at any time before the completion of the 12th week of classes for 16-week courses, the sixth week of classes for eight-week courses, or the fourth week of classes for six-week courses.
- For non-GoArmyEd active military students, the effective date of withdrawal is the filing date with the Education Center. For all other students, the effective date of withdrawal is the date that the withdrawal application is received by the Central Texas College representative.
- Students who used financial aid, military tuition assistance, VA benefits, or other non-personal funds may be required to repay tuition and fees to the funding agency. For specific repayment requirements, contact the Office of Student Financial Aid or Veterans Services Office before withdrawing. Military tuition assistance students should visit their military Education Center or Navy College Office.
- Students may not withdraw from a class for which the instructor has previously issued a grade of “F,” “FI,” “FN,” “IP,” or “XN.”

Instructor Initiated Withdrawals

Faculty are authorized to withdraw students who are not making satisfactory course progress as outlined in the section of the Catalog entitled “Satisfactory Progress Standards.”

Administrative Initiated Withdrawals

A student may be administratively withdrawn by a designated member of the administrative staff of the College under the following conditions:

- The student has been placed on Academic Suspension or Disciplinary Suspension;
- The student has an outstanding financial obligation owed to the college; or
- The student registered for a course without the required prerequisite or departmental permission.

The college is under no obligation to refund tuition and fees, or other costs associated with a student who is administratively withdrawn.

Student Classification

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Less than 30 semester hours of college-level credit recorded on your permanent record.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>At least 30 semester hours, but no more than 72 semester hours of college-level credit recorded on your permanent record.</td>
</tr>
<tr>
<td>Unclassified</td>
<td>More than 72 hours with no associate of higher degree earned.</td>
</tr>
</tbody>
</table>

Credit Transfer

To Central Texas College

Transfer of credit from regionally accredited colleges and universities may be accepted when the grade earned was “C” or higher, courses are lower division (unless approved SOC transfer guarantees), and the course applies to the student’s CTC program of study. Passing grades lower than “C” may be considered for transfer in accordance with departmental requirements and current evaluation procedures. Grades lower than a C grade will not be accepted in transfer toward major degree requirements. Official transcripts from each college or university previously attended are required.
Due to the rapid changes occurring in the vocational/technical fields, courses taken in a major field of study or vocational/technical courses directly related to that major field may not be accepted in transfer if courses were completed over five years before entering the CTC program of study. This also applies to returning students when vocational/technical courses applicable to your CTC program of study were taken at Central Texas College.

To Other Colleges and Universities
Central Texas College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees and certificates of completion. Credits earned at CTC are transferable to other institutions in accordance with policies of the receiving institutions. Students who enroll in courses for transfer to another college or university should consult with their advisor at the receiving school to ensure coursework will be accepted in their program of study. Although CTC advisors can assist with general academic advisement, it is the student’s responsibility to ensure courses will meet degree requirements at their college or university.

As a general rule, senior colleges and universities will accept a maximum of 66 hours of academic (not workforce education) lower-division coursework in transfer toward a bachelor’s degree.

Grading Policy
Grading System
The grading system at Central Texas College is as follows:
Grades | Grade Points
-------|----------
A | Superior | 4
B | Above Average | 3
C | Average | 2
D | Passing, but Unsatisfactory | 1
F | Failure | 0
FN | Nonattendance | 0
FI | Failure, nonremoval of incomplete | 0
IP | Incomplete, in progress (except developmental) | Not Computed
N | No Credit | Not Computed
P | Completed | Not Computed
W | Withdrawal | Not Computed
XN | Nonattendance, Incomplete for developmental and designated modular courses | Not Computed

Grade Designations
"D"
Students receiving a "D" grade in prerequisite courses are advised not to enroll in succeeding courses until they complete prerequisite coursework with at least a "C" grade. A "D" grade will not be acceptable toward graduation for any course in the major in the Associate of Arts, Science, Applied Science degree, or certificate programs.

"F"
Failure may be awarded for lack of academic progress (F), failure due to non-attendance (FN), or failure to complete remaining course requirements (FI). "F" grades may not be overridden with "W" or "I" grades. If you elect to repeat a course for which you have received an "F," you must re-register, pay full tuition and fees, and repeat the entire course.

"IP" Incomplete, Course in Progress (for non-developmental courses)
An "IP" grade may be assigned by an instructor if a student has made satisfactory progress in a course with the exception of a major quiz, final exam, or other project. The "IP" grade may also be assigned for extenuating circumstances beyond a student’s control such as personal illness, death in the immediate family, or military orders. Notice of absences with supporting documentation may be required by the instructor. The instructor makes the final decision concerning the granting of the incomplete grade. The instructor may set a deadline for completing the remaining course requirements. In no case will the deadline exceed 110 days after the scheduled end of the course. An "IP" grade cannot be replaced by the grade of "W." If a student elects to repeat the course, the student must register, pay full tuition and fees and repeat the entire course.

At the end of the 110 calendar days if the student has not completed the remaining coursework as required by the instructor, the "IP" will be converted to an "FI" and appear as an "F" on the student’s official transcript.

"N" - No Credit
The grade of "N" is reserved for use with some developmental and designated nontraditional, modular courses and will be assigned to students who have made satisfactory progress, but lack the successful completion of certain modules required for course completion. The grade of "N" indicates that the student must enroll the following semester and complete those modules for a final grade in the course. Re-enrollment requires the payment of usual tuition and fees for the course.

"P" - Completed
The grade of "P" is reserved for use with designated nontraditional, modular courses and will be assigned to students who have made satisfactory progress, but lack the successful completion of certain modules required for course completion. When used with credit-granting courses, earned credit hours will be displayed on the transcript. Quality points and grade point calculation are not computed.

"XN" - Non-Attendance
The grade of "XN" is reserved for use with developmental and designated nontraditional, modular courses and will be assigned to students who have failed to make satisfactory progress due to failure to attend.

"W" - Withdrawal
Students who officially withdraw will receive the grade of "W," provided attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with Central Texas College before they may be considered for withdrawal.

Grade Point Average (GPA)
Students are responsible for knowing their grade point average and when their grade point average affects their academic standing. Grades and unofficial transcripts are available online through WebAdvisor.

Calculating Grade Point Average

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade Points</th>
<th>Credit Hours</th>
<th>Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSI 1301</td>
<td>A</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>B</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ITSC 1409</td>
<td>C</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>CJLE 1211</td>
<td>D</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>12 crs.</td>
<td></td>
<td></td>
<td>31 gp.</td>
</tr>
</tbody>
</table>

31/12 = 2.583 GPA

Multiply the number of grade points for each grade by the number of credit hours for the course. Add the totals. Divide the total grade points by the number of hours attempted. Grades of IP, W, N, XN, or P and grades in developmental courses are not included in the grade point averaging.
Change of Grades
Students who believe that a computational error occurred in grading should immediately contact the instructor of the course in question. Students must bring this matter to the attention of the instructor involved no later than 180 days after the end of the course in order for a grade change to be considered. Administrative personnel of Central Texas College are not authorized to change an instructor’s grade.

Grades and Financial Assistance/Tuition Assistance/VA Benefits
Special conditions may apply to students enrolled in courses paid through the military tuition assistance program; financial aid, scholarships, and VA benefits; or other third-party contractual agreements due to agency requirements. Students should contact the appropriate agency for specific requirements and possible obligations, particularly for grades of “F,” “IP,” “W,” “N,” or “XN.”

Repeating a Course
The total hours earned toward a certificate/degree are not increased if you repeat a course in which a passing grade has already been earned. When you repeat a course, both grades remain on the transcript but only the last grade earned is used in computing your CTC GPA. Other colleges may compute the GPA in a manner different from Central Texas College. Repeating a course with a C or lower does not clear you to graduate with honors. Honors designation at graduation considers all grades of courses repeated.

Academic Standards
Dean’s Honor Roll
Students whose scholastic achievement is outstanding are notified by letter of the “Dean’s Honor Roll.” The Honor Roll includes the names of all students who have earned a grade point average of 3.5 in 12 or more semester hours of college-level credit taken concurrently during the regular semester or eight semester hours of college-level credit taken during the summer semester. Students completing 12 or more semester hours of college-level credit during two consecutive eight-week terms that start and end within a fall or spring semester and achieve a grade point average of 3.5 or higher receive Honor Roll status.

Academic Probation, Suspension and Dismissal
Academic standards of progress are monitored by the College to identify students who are having academic difficulty. To increase the likelihood that a student will succeed at CTC, the Guidance and Counseling advisors will limit a student’s enrollment and course selection. Students are responsible for knowing their academic status at all times.

1. Students who fail to maintain a 2.0 cumulative grade point average (GPA) during their initial seven semester hours will be notified of their Unsatisfactory Academic Progress status and provided a list of student support services available to them.

2. Students who fail to (a) maintain a 2.0 cumulative GPA after the first seven semester hours or (b) fail to achieve a 2.0 GPA during any term after the first seven semester hours and have less than a 2.0 cumulative GPA will be placed on Academic Probation during the next term in which they register. Students will be notified of their status and referred to Guidance and Counseling for academic advisement and assistance. Once students raise their cumulative GPA to 2.0, their status will be changed to Academic Good Standing. Students who fail to achieve a 2.0 GPA during their semester of probation and whose cumulative GPA is less than 2.0 will be placed on Academic Suspension. The mandatory suspension period is one sixteen-week semester, two eight-week terms, or both summer semesters.

3. Students readmitted after Academic Suspension who fail to achieve a 2.0 GPA during their semester of probation will be placed on Academic Dismissal for two long semesters or one long semester (Spring) and the following summer sessions (both). Warning: Students who earn a 2.0 GPA during their re-entry semester but whose cumulative CTC GPA is still below 2.0 will not be able to graduate with a certificate or degree until they raise their overall CTC GPA to at least a 2.0. (Students may contact their campus Student Services representative for information on the college appeals process.)

4. Students readmitted after Academic Dismissal who fail to maintain a term GPA of 2.0 or receive a “F,” “N,” or “XN,” will again be placed on Academic Dismissal for two long semesters or one long semester and both summer sessions. The same procedures for re-entry apply to repeated periods of Academic Dismissal.

Suspension/probation students who receive financial aid or VA benefits must comply with VA and student financial aid requirements for satisfactory progress before reinstatement of their financial aid or VA benefits.

Scholastic Honesty
All students are required and expected to maintain the highest standards of scholastic honesty in the preparation of all coursework and during examinations. The following are considered examples of scholastic dishonesty:

Plagiarism The taking of passages from the writing of others without giving proper credit to the sources.

Collusion Using another’s work as one’s own, or working together with another person in the preparation of work, unless such joint preparation is specifically approved in advance by the instructor.

Cheating Giving or receiving information on examinations.

Students guilty of scholastic dishonesty will be administratively dropped from the course with a grade of “F” and subject to disciplinary action, which may include suspension and expulsion.

Student Discipline
Students are admitted to Central Texas College for the purpose of educational, social and personal enhancement. Each student has rights, privileges, duties and responsibilities, as prescribed by State and Federal Constitutions and statutes and policies of the Board of Trustees of the Institution.
For those few students who fail to understand and accept their role in an educational institution, Central Texas College has prescribed procedures for counseling and disciplinary action, which are designed to help the students in every way possible. Disciplinary action may be an oral or written reprimand, disciplinary probation, suspension, or expulsion from Central Texas College. Students on disciplinary probation may receive no honors from Central Texas College. The probation status is permanent unless the student earned the privilege of being released from disciplinary probation. You may request further information concerning disciplinary procedures from your campus Student Services official.

**Hazing and Disruptive Activities**

Central Texas College enforces the Texas state laws prohibiting hazing, disruptive activities, or disruption of lawful assemblies on CTC property. Information regarding these prohibited activities appears in the official Student Handbook, available to regularly enrolled students at orientation sessions or in the Office of Student Life.

**Falsification of Records**

Students who knowingly falsify Central Texas College records, or who knowingly submit any falsified records to CTC, are subject to disciplinary action, which may include suspension and expulsion from CTC.

**Obligations to the College**

A student may be blocked from future registrations, not permitted to graduate and/or administratively withdrawn from a class until the student’s obligations to the College are met. CTC is authorized to place holds on a student's record under the following conditions, which include but are not limited to:

1. Debt to the college, left unpaid.
2. Failure to make good on a returned check.
3. Failure to make payment on a promissory note or a financial aid overpayment.
4. Failure to pay library or traffic fines.
5. Failure to return materials from Project PASS or other departments.
6. Ineligibility for aid, for which student registered; overdue loans; and failure to complete records.
7. Failure to file required documents; enrolling under false pretenses.
8. Failure to meet placement or assessment requirements.
9. Rejected charges to a credit card.

**Alcohol and Other Drug Abuse**

In recognition of the problems associated with alcohol and other drug abuse, Central Texas College has developed a college-wide drug policy. The policy addresses not only disciplinary sanctions associated with substance and alcohol abuse but also education, prevention, intervention and treatment activities necessary to help eliminate problems that substance and alcohol abuse pose to the college community.

Possession, use, sale, or being under the influence of alcoholic beverages or having alcoholic beverage containers in any Central Texas College owned facility or at any CTC-sponsored event is prohibited except when specifically designated by the Board of Trustees of Central Texas College. The use, sale or possession of illicit drugs and drug paraphernalia is illegal and is strictly prohibited on campuses.

Central Texas College will provide educational support programs which will assist in activities to prevent alcohol and other drug abuse. Information regarding drug and alcohol abuse at Central Texas College locations outside of Texas will be provided at individual campus sites.

To ensure compliance with applicable institutional, state and federal guidelines relating to the illegal use of illicit drugs and the abuse of alcohol, Central Texas College annually distributes an information flyer to all employees and students which addresses standards of conduct, counseling options, legal sanctions, disciplinary actions and health risks.

Those individuals seeking further information should contact the Substance Abuse Resource Center or the Central Texas College site representative.

**Academic Fresh Start**

Texas residents who apply for admission (or readmission) to a Texas public college or university and enroll as an undergraduate student may be able to begin a new course of study with a clear academic record.

Section 51.931 of the Texas Education Code “Right to an Academic Fresh Start” allows a Texas resident who has credits for college courses taken 10 or more years prior to the planned enrollment date to have those credits ignored for enrollment purposes.

To take advantage of this option, applicants must request it prior to their first enrollment at CTC or prior to readmissions if returning after 10 years. Applicants must submit an Application for Fresh Start to the Office of the Dean of Student Developmental Services at the time of their admissions or readmissions.

Additional information is available in the “Academic Fresh Start” section of the online Texas Campus Catalog at www.ctcd.edu.

**Student Responsibilities Address Changes**

All correspondence from Central Texas College to the student will be mailed or sent electronically to the appropriate address provided on the Application for Admission. Any address changes must be made in writing to the CTC Site Office or emailed to the CTC Admissions Office in Killeen, Texas at admissions@ctcd.edu. Students should include their CTC assigned student identification number and date of birth on the request. Students are responsible for all communication mailed to the last address on file.

**Name Changes**

Provide your legal name on your Application for Admission because this is the name that will appear on your official student record. To change a legal name to a new legal name, submit a copy of the signed court order showing the authorized new legal name. To change a last name after marriage, present a copy of the marriage certificate. A female student who wishes to discontinue the use of her married name and resume the use of her maiden name or a different name must present a divorce decree or signed court order showing restoration of the maiden name or other names. Other documents that may be used include a U.S. Government issued military I.D. card or Social Security Administration card. An affidavit must be provided before the name change will be processed. Submit name change documents and affidavits to CTC Records and Registration, Central Campus, Killeen, Texas.
**Classroom Visitors**
Permission to visit a class may be granted by the Campus Dean. Such permission carries with it permission to listen and observe, but not to enter into class discussion or laboratory work. Permission to visit is not to be considered auditing on a full-time basis, nor will permission be granted to allow children in class. Parents must make arrangements for the care of their children during class meetings. Central Texas College policy does not permit a student to audit courses. Some classes are available as noncredit, continuing education courses.

**Student Records**
The Systems Registrar is the custodian of all student records except those specifically relating to financial aid. “Student Records” as defined by CTC is any information collected, assembled, or maintained by the college, and includes documents, writings, letters, memoranda, computer tapes, and other materials written or otherwise that directly or indirectly contain the identity of the student. Student records are confidential. Any student, regardless of age, has access to his or her records and is entitled to receive copies at a designated duplication rate. Students do not have access to the parent’s confidential financial statement. Student records include:
- Applications for admission
- Financial aid
- Veterans’ training
- Scores on standardized tests
- Scores on standardized achievement tests
- Specialized testing results
- Transcripts of grades
- Family background information

**Family Educational Rights and Privacy Act of 1974, as Amended (FERPA)**
In compliance with the Family Educational Rights and Privacy Act 1974, as amended, information classified as “directory information” may be disclosed to the general public without prior written consent from a student unless the Central Texas College Records Office is notified in writing by the student before the 12th class day of the fall and spring semesters, the 6th class day of eight-week terms and the 4th class day of summer semesters. Your request may be accepted after these deadlines, but CTC will not be responsible for the release of Directory Information prior to receiving the request to withhold directory. This statement of nondisclosure will remain on your records unless you cancel your request to withhold directory information. You may request on an item-by-item basis (such as a transcript release for employment purposes) the release of directory or non-directory information.

**Directory Information**
Student’s name
Local address
Home address
Electronic mail address
Telephone number
Date and place of birth
Major field of study
Dates of enrollment
Degrees, awards and honors received
Most recent previous educational agency or institution attended
Photographs
Classification (freshman, sophomore or unclassified)
Participation in officially recognized activities and sports
Date of graduation

Access to any other records by persons other than the student will be limited to those persons specified in the statute. Records will be maintained of persons granted such access.

Students may inspect and review their educational records upon request to the appropriate record custodian. For more information, contact the Central Texas College Systems Registrar at the Central Campus in Killeen, Texas.

**Graduation Requirements**
Central Texas College confers the Associate of Arts, the Associate of Science, the Associate of Applied Science, the Associate of General Studies and certificates of completions. To graduate from Central Texas College, the student must:
- Apply for graduation by the deadline date.
- Successfully complete all courses required in the program of study.
- Complete at least 25 percent of the degree or certificate semester credit hours at CTC (to fulfill residency requirements).
- Earn at least a 2.0 grade point average (GPA) on a 4.0 scale on all CTC coursework. All courses completed at the time the degree or certificate requirements were met are calculated in the CTC GPA, even if the courses were not used to meet specific degree or certificate requirements.
- Earn at least a 2.0 cumulative GPA on a 4.0 scale, which includes transfer credits applied to the degree and CTC coursework.
- Meet state, institutional, licensure and other agency rules as applicable.
- TSI-obligated students seeking an associate degree or a certificate level 2 must be TSI complete or exempt in reading, writing, and mathematics.

**Catalog Program in Effect and Completion**
Students may graduate in the program listed in the catalog that was in effect at the time they enrolled or subsequent catalogs if (1) the catalog is not more than five years old and (2) the program has not been discontinued. Students whose programs of study are discontinued have two years to complete the degree or certificate before the program is officially deactivated.

**Graduation with Honors**
Candidates for degrees conferred by Central Texas College may be eligible to graduate with highest honors or honors. Certificates of completion do not qualify for honors. To graduate with honors or highest honors from CTC, the student must:
- Have a 3.5 GPA on a 4.0 scale with no grades below “B” on all coursework taken, which includes all CTC courses and transfer credits. Repeating a CTC credit course in which a “C” or lower grade was earned does not clear a student to graduate with honors.
- Must have a minimum of 30 semester hours of traditional study with Central Texas College. Courses with grades of “P” or developmental courses are not considered when determining the minimum 30 semester hour residency requirement.

In any graduating class, the student with the highest GPA and who meets all other requirements above will be designated as graduating with highest honors.
Applying for Graduation

Students who have reached the final semester of their degree or certificate program should apply for graduation. Students should submit a completed Application for Degree/Certificate to their local CTC site representative by the dates listed below.

<table>
<thead>
<tr>
<th>Semester of Graduation</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>October 1</td>
</tr>
<tr>
<td>Spring</td>
<td>February 1</td>
</tr>
<tr>
<td>August</td>
<td>June 10</td>
</tr>
</tbody>
</table>

Graduation applications received after the deadline will be processed the next semester. Final course grades, high school transcripts or GED scores, and official transcripts from all regionally accredited colleges or universities previously attended must be on file before issuance of the degree or certificate.

Students who do not complete remaining degree or certificate requirements by the end of the month of graduation (May 31, August 31 or December 31) will be declared nongraduates and are required to reapply for graduation in a following semester.

Commencement

Many CTC sites conduct an annual graduation ceremony in conjunction with their local Education Center or Navy College office. Students should contact their local CTC representative for more information.

Central Texas College in Killeen, Texas, holds one consolidated graduation ceremony in May. Students must complete certificate or degree requirements by the end of the spring semester in order to participate in the ceremony. Candidates for graduation who attend CTC at its worldwide locations or complete degree requirements through distance learning may participate in the consolidated graduation ceremony. Caps and gowns are purchased directly through the CTC Bookstore in Killeen, Texas.

Replacing a Lost Certificate or Degree

If a certificate or degree has been lost, stolen, or damaged, a replacement may be obtained through the Student Services Graduation office in Killeen, Texas. An appropriate fee is required to replace a diploma.

Degrees and Certificates

Central Texas College offers the Associate of Arts, the Associate of Science, the Associate of Applied Science, the Associate of Arts in General Studies, and certificates of completions.

The Associate of Arts and the Associate of Science degree programs are designed to allow for the transfer of credits earned at Central Texas College to the bachelor degree requirements at most four-year public colleges and universities. In addition, completion of the 42 semester hours of core curriculum in each degree guarantees transferability of the minimum 42 semester credit hours of state-mandated core curricula toward the general education requirements of a bachelor’s degree program at state supported colleges and universities in Texas.

The Associate of Applied Science degrees, offered in technical programs, are designed to prepare students for employment upon graduation. Within many of the associate of applied science degrees, there are certificates of completion that can be completed in less than two years.

The Associate of Arts in General Studies degree provides students with a foundation in general education courses, which are appropriate for transfer to a four-year college or university and allows students to structure a program based on their interests and educational goals.

Developmental Studies

Developmental studies courses offered by Central Texas College are designed to provide a means for students to remove specific deficiencies or provide refresher coursework before enrolling in academic, occupational, or technical programs.

Students on academic probation or suspension may be required to complete developmental studies courses to satisfy probation or suspension readmission requirements.

NOTE Developmental studies courses may not be used to satisfy degree requirements, cannot be used to meet the 25 percent residency toward the degree and cannot be counted in the grade point average at Central Texas College.

Core Curriculum

The Core Curriculum is the set of courses in liberal arts, humanities, sciences, and political, social and cultural history that undergraduates of a public higher education institution in Texas are required to complete before receiving a bachelor’s degree (Title 19, Chapter 5, Subchapter S, Rule 5.400). Students seeking a CTC Associate of Arts or Associate of Science degree are required to complete a 42-hour core curriculum. Students who successfully complete the core curriculum may transfer the block of courses to another Texas public institution of higher education and substitute the block for the receiving institution’s core curriculum. Students who do not complete the 42-hour core curriculum may still transfer those courses successfully completed to another public college or university in Texas. They will generally be required to complete the remainder of the courses in the receiving institution’s core curriculum. For a list of the courses in the core curriculum, refer to the Programs of Study section of this Catalog.

To facilitate transfer of freshman- and sophomore-level core courses, a Texas Common Core Numbering System (TCCNS) exists. These lower-division courses have a TCCNS number and are listed in the Lower-Division Academic Course Guide Manual, an official publication of the Texas Higher Education Coordinating Board, Community and Technical Colleges Division.

It is important to know what courses are recognized as common at the school to which you plan to transfer. You should declare a major before attaining sophomore standing at CTC. Each Texas public community college or university will accept TCCNS courses, provided such credits are within the approved transfer curriculum of the student’s declared major field of study at the receiving institution. A change of major may result in loss of credits earned in a previous program.
Program Listings
Curriculum plans for various degrees, certificates, and courses offered at the C&I Campuses are on the following pages. Please refer to the current Texas Campuses catalog and the CTC Distance Learning website for additional programs of study and courses that may be available through distance learning. Course descriptions for all courses are listed in alpha-numeric order by course prefix. It is the student’s responsibility to monitor program offerings and follow the published degree plan requirements. Any deviations from listed courses must be approved in writing by the department.

NOTE Although academic counseling is available, it remains your responsibility to determine the major area of study to verify the required courses and their prerequisites, and to select the senior college or university to which you wish to transfer.

Semester Credit Hours
The three numbers following (to the right of) the course title indicate the: (a) hours per week the class meets for lectures, (b) number of laboratory hours required per week and (c) credit hours awarded for successful completion of the course. One semester hour of credit represents one hour of lecture time per week for 16 weeks; one semester hour of credit also represents two to four hours of laboratory time per week for 16 weeks. Lecture and lab proportions may vary depending on the nature of the course.

For example, BIOL 1406, General Biology I, 3-3-4, has three hours of lecture per week conducted over 16 weeks and three hours of laboratory per week conducted over 16 weeks with four hours of credit awarded for successful completion. This weekly requirement is adjusted to compensate for terms/ sessions/semesters with lengths other than 16 weeks. For instance, 3-0-3 for an eight-week term would require six hours of lecture per week and 2-4-3 would require four hours of lecture and eight hours of lab per week.

Course Numbering System Guidelines
A common course numbering system is used for credit courses.

- The four-letter prefix (rubric) is used to identify subject areas.
- The four-digit numbers are as follows:
  - First digit—identifies the course as lower division
  - Second digit—identifies the credit hour value
  - Third and Fourth digits—represent a unique course identifier

Programs of Study
AA  Associate of Arts Degree
AS  Associate of Science Degree
AAS  Associate of Applied Science Degree
AA  Associate Of Arts - General Studies
CC  Institutional Certificate of Completion
CC**  Level II Certificate
CC*  Level I Certificate

Core Curriculum for Associate of Science (AS) and Associate of Arts (AA)

Degrees and Certificates

Auto Collision
AAS  Auto Collision Repair (not offered on Central Campus) 30

Automotive Mechanic
AAS  Automotive Mechanic/Technician 30
CC**  Automotive Technician 31
CC*  Automotive Tune-Up Specialist 31

Aviation Science
AAS  Aviation Maintenance Technology (PFEC only) 31

Business
AS  Business Administration 32
AAS  Applied Management 32
AAS  Applied Management - Computer Applications 33
AAS  Applied Management - Military Science Specialization 33
AAS  Business Management - Marketing and Sales Management Specialization 34
AAS  Business Management 33
CC*  Business Management 33
CC*  Entrepreneurship 34
CC*  Marketing and Sales Management 34

Computer Science
AAS  Business Programmer Analyst 35
AAS  Information Security Management 35
AAS  Information Technology 36
AAS  Network Systems Administrator 36
CC*  Computer Help Desk Specialist 36
CC*  Information Security Management 35
CC*  Microsoft Information Technology (MCITP) Server Administrator 37
CC*  Network Specialist 36
CC*  Web Design Basics 37

Drafting and Design
AAS  Computer-Aided Drafting and Design 37
CC*  Computer-Aided Drafting and Design 37

Early Childhood Professions
AAS  Early Childhood Professions 38
CC*  Administrator’s Credentials 38
CC*  Early Childhood Professions 38
CC*  Special Child Option 39

Electronics
AAS  Communications Electronics (Europe only) 39
AAS  Computer Electronics 39
CC*  Computer Electronics Technology 39

Emergency Medical Technology
AAS  Emergency Medical Technology 40
CC*  EMT-Paramedic 40

General Studies
AA  General Studies 40

Heating and Air Conditioning
AAS  Heating, Air Conditioning and Refrigeration Mechanic and Repairer 41
CC**  Heating, Air Conditioning and Refrigeration 41
CC*  Commercial Heating, Air Conditioning and Refrigeration 41
CC*  Residential Heating, Air Conditioning and Refrigeration 41
<table>
<thead>
<tr>
<th>Hospitality Management</th>
<th>42</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAS Restaurant and Culinary Management</td>
<td>42</td>
</tr>
<tr>
<td>AAS Hotel Management Specialization</td>
<td>42</td>
</tr>
<tr>
<td>AAS Food and Beverage Management Specialization</td>
<td>43</td>
</tr>
<tr>
<td>CC* Baking</td>
<td>43</td>
</tr>
<tr>
<td>CC* Culinary Arts</td>
<td>43</td>
</tr>
<tr>
<td>CC* Food and Beverage Management</td>
<td>43</td>
</tr>
<tr>
<td>CC* Property Management Advanced</td>
<td>43</td>
</tr>
<tr>
<td>CC* Restaurant Skills</td>
<td>43</td>
</tr>
<tr>
<td>CC* Room Divisions</td>
<td>43</td>
</tr>
</tbody>
</table>

| Interdisciplinary Studies                  | 44 |
| Interdisciplinary Studies                 |    |

| Legal Assistant                           | 44 |
| Paralegal/Legal Assistant                  |    |

| Maintenance Technology                     | 45 |
| Maintenance Technology                     |    |

| Mathematics                                | 45 |
| Mathematics                                |    |

| Mental Health Services                     | 45 |
| At Risk Youth Specialization               | 45 |
| Chemical Dependency Specialization         | 46 |
| Social Work Specialization                 | 47 |
| At Risk Youth Specialization               | 47 |
| Advanced Certificate                       |    |
| Chemical Dependency Specialization         | 46 |
| Advanced Certificate                       |    |
| Criminal Justice Addictions                | 47 |

| Office Technology                          | 47 |
| Executive Assistant                        |    |
| Office Management                          | 48 |
| Administrative Support                     | 48 |
| Office Management                          | 48 |
| Medical Office Specialist                  | 49 |
| Medical Transcription                      | 49 |
| Office Assistant                           | 49 |
| Office Management                          | 49 |
| Software Applications Specialist           | 49 |

| Protective Services                        | 49 |
| Criminal Justice                           |    |
| Criminal Justice - Corrections Specialization | 50 |
| Fire Protection                            | 50 |
| Criminal Justice Studies Specialization    | 50 |
| Fire Protection                            | 51 |

| Public Administration                      | 51 |
| Homeland Security and Emergency Management |    |

| Social Science                             | 52 |
| Social Science                             |    |

| Teaching                                   | 52 |
| Teaching                                   |    |

| Welding                                    | 52 |
| Welding                                    |    |
| Welding Technology                         | 53 |
| Fitter                                     | 53 |
| Tacker                                     | 53 |
| Welder                                     | 53 |

| Central Texas College C&I Campuses Catalog 2010-2011 - Degrees and Certificates | 26 |
Core Curriculum

In the spirit of accomplishing Central Texas College’s mission, the core curriculum experience will prepare you to learn effectively through your college years so that you carry these aptitudes for learning into your life careers. It is the goal of Central Texas College to graduate well-educated men and women who are articulate, interested in lifelong learning, and capable of becoming creative citizens. The core curriculum design and implementation will also facilitate the transferability of lower division courses between Central Texas College and universities. A course cannot count toward more than one requirement of the degree. Students planning to attend a senior college should coordinate with that senior college to ensure that the courses they take at Central Texas College will fulfill degree requirements there. Check with the appropriate Department Chair for specific degree requirements.

<table>
<thead>
<tr>
<th>Core Area</th>
<th>Course Options</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communications (010)</td>
<td>ENGL 1301 and 1302. SPCH 1315, 1318, 1321.</td>
<td>6</td>
</tr>
<tr>
<td>Speech (011)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mathematics (020)</td>
<td>MATH 1316, 1325, 1350, 1351, 1414, 2412, 2413, 2414, 2415.</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science (030)</td>
<td>BIOL 1406, 1407, 1411, 1413, 2401, 2402, 2413, 2421, 2428. CHEM 1406, 1407, 1411, 1412, 2423, 2425. GEOL 1403, 1404, 1405. PHYS 1401, 1402, 1403, 1404, 1415, 2425, 2426. ENV R 1401. AGRI 1407, 1415, 1419.</td>
<td>8</td>
</tr>
<tr>
<td>Humanities (visual/performing arts) (050)</td>
<td>ARTS 1303, 1304, 1311, 1312, 1316, 1317, 2311, 2313, 2314, 2316, 2317, 2323, 2326, 2341, 2342, 2346, 2347, 2356, 2357, 2366. DRAM 1310, 1320, 1321, 1330, 1351, 1352, 2336, 2366. MUSI 1162, 1181, 1183, 1188, 1192, 1216, 1217, 1301, 1304, 1306, 1307, 1311, 1312, 2311, 2312.</td>
<td>3</td>
</tr>
<tr>
<td>(literature, philosophy, and cultural studies) (040)</td>
<td>ANTH 2301, 2302, 2346, 2351. ENGL 2322, 2323, 2327, 2328, 2332, 2333. SPCH 2341. HUMA 1315. PHIL 1301, 1304, 1316, 1317, 2303, 2306, 2307.</td>
<td>3</td>
</tr>
<tr>
<td>Social/Behavioral Sciences U.S. History (060)</td>
<td>HIST 1301, 1302. GOVT 2301, 2302.</td>
<td>12</td>
</tr>
<tr>
<td>Political Science (070)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(other social/behavioral science) (080)</td>
<td>HIST 2301, 2311, 2312, 2381. GOVT 2304. PSYC 2301, 2308, 2314, 2315, 2316. SOCI 1301, 1306, 2301, 2319. ECON 2301, 2302. GEOG 1300, 1301, 1302, 1303. AGRI 2317.</td>
<td>3</td>
</tr>
<tr>
<td>Health, Wellness, Kinesiology (090)</td>
<td>KINE (Physical Activity Courses)</td>
<td>1</td>
</tr>
<tr>
<td>Total Core Requirements</td>
<td></td>
<td>42</td>
</tr>
</tbody>
</table>
Associate of Arts Degree:
Complete Core ................................................................. 42
Health/Wellness/Kinesiology selection
(KINE Activity Courses) .................................................... 3
Computer Technology selection (BCIS-1405, COSC-1301, AGRI-1309) ................................................................. 3
Foreign Language selection (FREN, GERM, SPAN, JAPN) .... 8
Specialization selection - University Parallel .................... 4
Minimum Credit Hours .................................................... 60

Associate of Science Degree:
Complete Core ................................................................. 42
Health/Wellness/Kinesiology selection
(KINE Activity Courses) .................................................... 3
Computer Technology selection* (BCIS-1405, COSC-1301, AGRI-1309) ................................................................. 3
Mathematics selection (MATH)* .......................................... 3
Natural Science selection (BIOL, CHEM, PHYS, GEOL) ....... 4
Specialization selection - University Parallel .................... 5
Minimum Credit Hours .................................................... 60

* The Associate of Science in Business Administration requires 4 semester credit hours in math and computer technology.

Additional Associate of Arts and Associate of Science Degree Requirements
- A minimum of 25 percent of semester credit hours earned within the Central Texas College System
- All required courses in the major as listed in this Catalog.
- Satisfy:
  - A minimum overall grade point average of 2.0 ("C" average).
  - A minimum "C" on each course in the major.
  - A minimum of 2.0 "C" with Central Texas College.
- A minimum score on all sections of the THEA test or other state-approved TSI test unless TSI exempt or eligible for a waiver.
- Meeting all other Central Texas College and departmental requirements.

Associate of Arts - General Studies Degree
Students planning to attend a senior college should coordinate with that senior college to ensure that the courses they take at Central Texas College will fulfill degree requirements there.
The minimum required hours for an Associate of General Studies Degree is 60 semester hours. Students must complete the specific degree requirements as shown in the program of study which includes:
- ENGL 1301 and three semester hours of oral communications.
- Three semester hours of humanities or fine arts.
- Three semester hours of mathematics, MATH 1332, 1342 or higher level.
- HIST 1301 and 1302.
- GOVT 2301 and 2302.
- Three semester hours of computer instruction.
- Two semester hours of physical education (KINE) from activity courses.
- If the major is music, journalism, commercial art, or television/radio broadcasting, all required courses in the major as listed in this Catalog must be completed.
- A minimum of 25 percent of semester hour credits earned within the Central Texas College System.
- A minimum overall grade point average of 2.0 ("C" average), to include a minimum 2.0 "C" average on all courses taken with Central Texas College.
- Meeting all other Central Texas College and departmental requirements.
- A minimum score on all sections of the THEA test or other state-approved TSI test unless TSI exempt or eligible for a waiver.

Associate of Applied Science Degree
Students must complete the specific degree requirements in the degree plan for their major field as shown in the program of study.
The degree consists of a minimum of 60 semester hours. Students must complete the specific degree requirements as shown in the program of study which includes:
- ENGL 1301 and three semester hours of oral communications.
- Three semester hours of humanities or fine arts.
- Three semester hours of mathematics, MATH, as required by specific program.
- Three semester hours of social or behavioral science.
- Three semester hours of computer instruction or successful competency challenge exam.
- A minimum of 50 percent of semester credit hours of technical courses in the major or a closely related field.
- A minimum of 25 percent of semester credit hours earned within the Central Texas College System.
- All required courses in the major as listed in this Catalog.
- Satisfy:
  - A minimum overall grade point average 2.0 ("C" average).
  - A minimum "C" on each course in the major.
  - A minimum of 2.0 "C" with Central Texas College.
- A minimum score on all sections of the THEA test or other state-approved TSI test unless TSI exempt or eligible for a waiver.
- Meeting all other Central Texas College and departmental requirements.

Students may be required to repeat major courses in their field of study if graduation is not accomplished within five years after courses are completed.
Associate of Applied Science Degree in Applied Technology

The associate of applied science degree of applied technology general education component must constitute a minimum of 15 semester credit hours drawn from and include at least one course from each of the following areas: Humanities/Fine Arts; Social/Behavioral; and Natural Science/Mathematics.

To receive an Associate of Applied Science Degree of Applied Technology students must complete a minimum of 60 semester hours. Students must complete the specific degree requirements as shown in the program of study which includes:

- ENGL 1301 and three semester hours of oral communications
- Three semester hours of humanities or fine arts.
- Three semester hours of mathematics, MATH 1414, MATH 1324, MATH 1332, MATH 1342, or higher.
- Three semester hours of social or behavioral science.
- Three semester hours of computer instruction.
- Two semester hours of physical education (KINE) from activity courses.
- 44-47 semester hours of major area courses related to a specific MOS, Rating, or Job Specialty Code.
- A minimum of 25 percent of semester credit hours earned within Central Texas College.
- Satisfy:
  - A minimum overall grade point average 2.0 ("C" average).
  - A minimum “C” on each course in the major area specialization.
  - A minimum grade point average of 2.0 ("C" average) with Central Texas College.

Approved Electives

Approved electives are courses which, although not specifically related to the major, are designed to broaden the student’s exposure to various disciplines considered supportive of the program’s objectives. Credits earned at CTC are transferable to other institutions in accordance with policies of the receiving institutions. Students who plan to transfer to other institutions for degree completion or to pursue a more advanced degree are advised to consult with officials of the receiving school for degree requirements and transfer policy.

Special Electives

Many programs of study have courses that can be used to satisfy Humanities/Fine Arts and Social/Behavioral Science elective requirements. Some courses can be used as either a Humanities/Fine Arts or Social/Behavioral Science elective. Credits earned at CTC are transferable to other institutions in accordance with policies of the receiving institutions. Students who plan to transfer to other institutions for degree completion or to pursue a more advanced degree are advised to consult with officials of the receiving school for degree requirements and transfer policy. The special electives are listed below.

Humanities/Fine Arts Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2351</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>ARTS</td>
<td>Art courses</td>
</tr>
<tr>
<td>DRAM</td>
<td>Drama courses</td>
</tr>
<tr>
<td>Foreign Language courses</td>
<td></td>
</tr>
<tr>
<td>GEOG 1302</td>
<td>Cultural Geography</td>
</tr>
<tr>
<td>GEOG 1303</td>
<td>World Regional Geography</td>
</tr>
<tr>
<td>HIST 2311</td>
<td>Western Civilization I</td>
</tr>
<tr>
<td>HIST 2312</td>
<td>Western Civilization II</td>
</tr>
<tr>
<td>HIST 2381</td>
<td>African-American History</td>
</tr>
<tr>
<td>HUMA 1315</td>
<td>Fine Arts Appreciation</td>
</tr>
<tr>
<td>ENGL</td>
<td>Literature courses only</td>
</tr>
<tr>
<td>MUSI</td>
<td>Music courses</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy courses to include Religion</td>
</tr>
<tr>
<td>SPCH 2341</td>
<td>Oral Interpretation</td>
</tr>
</tbody>
</table>

Social/Behavioral Science Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 2317</td>
<td>Introduction to Agriculture Economics</td>
</tr>
<tr>
<td>ANTH 2301</td>
<td>Physical Anthropology</td>
</tr>
<tr>
<td>ANTH 2351</td>
<td>Cultural Anthropology</td>
</tr>
<tr>
<td>ECON 2301</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>CRIJ 1307</td>
<td>Crime in America</td>
</tr>
<tr>
<td>GEOG</td>
<td>Geography courses</td>
</tr>
<tr>
<td>GOVT</td>
<td>Government courses</td>
</tr>
<tr>
<td>HIST</td>
<td>History courses</td>
</tr>
<tr>
<td>PSYC</td>
<td>Psychology courses</td>
</tr>
<tr>
<td>SOCI</td>
<td>Sociology courses</td>
</tr>
</tbody>
</table>

Computer Science Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRI 1309</td>
<td>Computers in Agriculture</td>
</tr>
<tr>
<td>BCIS 1405</td>
<td>Business Computer Applications</td>
</tr>
<tr>
<td>CPMT 1403</td>
<td>Introduction to Computer Technology</td>
</tr>
<tr>
<td>CPMT 1449</td>
<td>Computer Networking Technology</td>
</tr>
<tr>
<td>DFTG 1409</td>
<td>Basic Computer-Aided Drafting</td>
</tr>
<tr>
<td>HAMG 1319</td>
<td>Computers in Hospitality</td>
</tr>
</tbody>
</table>

NOTE Courses taken at another college or university to satisfy special elective requirements must be freshman/sophomore level. Other courses may satisfy the special electives.
Auto Collision

This program is designed for the student interested in a career in Automotive Collision Repair. It provides entry-level, industry-validated, hands-on learning covering the entire spectrum of auto body collision repair using the latest technologies. Instruction is to I-CAR requirements.

Auto Collision Repair (ABCR)
470603
Associate of Applied Science Degree
(Offered at locations outside of Texas under Military Contract Obligation)

First Year
First Semester Credit
ABDR 1419 Basic Metal Repair 4
ABDR 1472 Auto Body Glass, Hardware and Trim 4
ABDR 2447 Advanced Auto Body Welding 4
ABDR 1431 Basic Refinishing 4
KINE 1332 Physical Activity Course 1

Second Semester
ABDR 2449 Advanced Refinishing 4
ABDR 1449 Automotive Plastic and Sheet Molded Compound 4
ABDR 1441 Structural Analysis and Damage Repair I 4
ABDR 1442 Structural Analysis and Damage Repair II 4
MATH 1332 Contemporary Mathematics 3

Second Year
First Semester
ABDR 2435 Structural Analysis and Damage Repair IV 4
ABDR 2437 Structural Analysis and Damage Repair V 4
ELCT Humanities/Fine Arts Selection 3
ENGL 1301 Composition I 3
GOVT GOVT 2301 or 2302 3

Second Semester
ABDR 2402 Auto Body Mechanical and Electrical Service 4
AUMT 1416 Suspension and Steering 4
ELCT Computer Technology Skills 4
SPCH SPCH 1315 or 1321 3
AUMT 1410 Automotive Brake Systems or
ABDR 2488 Internship 4
Total Hours 72

Automotive Mechanic

This program is designed for the student who wishes to enter the Automotive Repair career field. It provides entry-level, industry-validated, hands-on learning covering the entire spectrum of Automotive Service and Repair using the latest technologies in automotive systems, tools, and equipment. Instruction is to ASE requirements.

Automotive Mechanic/Technician (AUMT)
470604
Associate of Applied Science Degree

First Year
First Semester Credit
AUMT 1405 Intro. to Automotive Technology 4
AUMT 2305 Automotive Engine Theory 3
AUMT 1407 Automotive Electrical Systems 4
AUMT 2437 Automotive Electronics 4
MATH 1332 Contemporary Mathematics 3

Second Semester
AUMT 1472 Automotive Computer Systems 4
AUMT 1445 Automotive Heating and Air Conditioning 4
AUMT 1410 Automotive Brake Systems 4
AUMT 2413 Automotive Drive Train and Axles 4
ENGL 1301 Composition I 3

Second Year
First Semester
SPCH SPCH 1315 or 1321 3
AUMT 1416 Automotive Suspension and Steering Systems 4
ELCT Computer Technology Skills 3
AUMT 2417 Automotive Engine Performance Analysis I 4
GOVT GOVT 2301 or 2302 3

Second Semester
AUMT 2425 Automotive Automatic Transmission and Transaxle 4
AUMT 2434 Automotive Engine Performance Analysis II 4
ELCT Humanities/Fine Arts Selection 3
ELCT Elective 3
AUMT 1419 Automotive Engine Repair or
AUMT 2488 Internship 4
Total Hours 72
**Automotive Technician (AUTT) 470604**

Certificate of Completion

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<th>Credit</th>
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<tr>
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<td>AUMT 1407 Automotive Electrical Systems</td>
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<td>AUMT 2437 Automotive Electronics</td>
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<td>AUMT 2417 Automotive Engine Performance and Analysis I</td>
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<td>AUMT 1445 Automotive Heating and Air Conditioning</td>
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<td>AUMT 1410 Automotive Brake Systems</td>
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**Second Year**

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<tr>
<td>AUMT 1416 Automotive Suspension and Steering Systems</td>
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<td>WLDG 2413 Intermediate Welding Using Multiple Processes</td>
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<td>or AUMT 2488 Internship</td>
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**Total Hours** | 31

**Automotive Tune-Up Specialist (AUTS) 470604**

Certificate of Completion

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<tr>
<td>AUMT 1405 Intro. to Automotive Technology</td>
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<tr>
<td>AUMT 1407 Automotive Electrical Systems</td>
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<td>AUMT 2417 Automotive Engine Performance and Analysis I</td>
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<tr>
<td>AUMT 1472 Automotive Computer Systems</td>
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<td>AUMT 2434 Automotive Engine Performance Analysis II</td>
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<td>AUMT 2488 Internship</td>
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**Total Hours** | 31

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**Aviation Science**

**Aviation Maintenance Technology (AVMT) 470608**

Associate of Applied Science Degree

(Offered at Pacific Far East Campus only)

The Associate of Science in Aircraft Maintenance degree combines a technical background in aircraft maintenance with a well-rounded academic program.

Central Texas College offers courses to students attending the Pacific Far East Campus who are experienced but unlicensed aircraft maintenance specialists. These courses deal largely with the theory and the concepts of all aspects of airframe and power plant maintenance; and with the problems, considerations and practices involved in maintaining aircraft in airworthy condition based upon the body of knowledge required of experienced aircraft maintenance specialists. The completion of these courses does not influence the determination by the FAA of an individual’s eligibility to take the airframe and/or power plant examinations. The courses provide academic background information for the actual hands-on training the student obtains through military training courses and programs, and military experiences.

This program is not FAA approved for meeting the degree requirements to take the A&P Examinations (an alternative method for qualification in lieu of military experience). The information in the courses is provided to enhance the student’s potential for successful testing based upon their military rating/Military Occupational Specialty (MOS)/Job Specialty Code. Only military members possessing applicable military operational specialty codes for US Army, US Air Force, US Navy, US Coast Guard, and US Marine Corps as listed in FAA Circular AC 65-30 series may enroll in these courses.

NO IMPLICATION FOR FAA APPROVED COURSES IS IMPLIED OR STATED IN THIS DEGREE PROGRAM.

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<tr>
<th>First Year</th>
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<tr>
<td>ENGL 1301 Composition I</td>
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<tr>
<td>PHYS 1405 Elementary Physics I</td>
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<td>AERM 1314 Basic Electricity</td>
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<td>AERM 1203 Shop Practices</td>
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<tr>
<td>AERM 2351 Aircraft Turbine Engine Overhaul</td>
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<tr>
<td>AERM 1444 Aircraft Reciprocating Engines</td>
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<tr>
<td>AERM 1208 Federal Aviation Regulations</td>
<td>2</td>
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<tr>
<td>AERM 1210 Ground Operations</td>
<td>2</td>
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<td>SPCH</td>
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<tr>
<td>AERM 1452 Aircraft Sheet Metal</td>
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<tr>
<td>AERM 1456 Aircraft Power Plant Electrical</td>
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<tr>
<td>AERM 2231 Airframe Inspection</td>
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<tr>
<td>AERM 2341 Power Plant &amp; Auxiliary Power Units</td>
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<td>AERM 1254 Aircraft Composites</td>
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Central Texas College C&I Campuses Catalog 2010-2011 - Programs of Study 31
Second Semester
AERM 1243 Instruments and Navigation/Communications 2
AERM 1449 Hydraulic, Pneumatic, & Fuel Systems 4
AERM 1205 Weight and Balance 2
AERM  Selected AERM Elective 2
AERM  Selected AERM Elective 2

Third Semester
AERM  Selected AERM Elective 3
ELCT  Social/Behavioral Science 3

Total Hours 67

Second Semester
ACCT 2302 Principles of Accounting II 3
BCIS 1405 Business Computer Applications 3
GOVT 2302 American Government II* 3
ECON 2302 Microeconomics 3
SPCH  SPCH 1315 or 1321 (preferred)*

Total Hours 60

* Core Courses
** For students transferring to Universities within the state of Texas the following Core Courses are highly recommended when completing the Core Curriculum: MATH 1414, ECON 2301

Applied Management (BUAM)
520201
Associate of Applied Science Degree
(Offered at locations outside of Texas under Military Contract Obligation)

First Year
First Semester
First Year
First Semester
BUSA  1301 Business Principles 3
SCIE  Natural Science (see BIOL, CHEM, GEOL, and PHYS)* 4
HIST  U.S. History I* 3
ENGL  Composition I* 3
MATH  College Algebra* 4
KINE  Physical Activity Course* 1

Second Semester
SCIE  Natural Science (see BIOL, CHEM, GEOL, and PHYS)* 4
HIST  U.S. History II* 3
ENGL  Composition II* 3
ELCT  ARTS/DRAM/MUSI/HUMA* 3
KINE  Physical Activity Course* 1

Second Year
First Semester
ECON  Macroeconomics** 3
ACCT  Principles of Accounting I 3
ENGL  English Literature Selection* 3
GOVT  American Government I* 3

Second Semester
ACCT  Principles of Financial Accounting 3
HRPO  Human Resource Management 3
BMGT  Supervision 3
ELCT  Humanities/Fine Arts Selection 3
ELCT  BMGT/HRPO/BUSG 3
KINE  Physical Activity Course 1

Second Year
First Semester
ELCT  Social/Behavioral Science Selection 3
BUSG  Business Law/Contracts 3
or
BUSI  Business Law 3
MRKG  Principles of Marketing 3
ELCT  BMGT/BUSG/HRPO or Approved Selection 3
ELCT  BMGT/BUSG/ITSW/ITSC/ITSE 3
KINE  Physical Activity Course 1

Total Hours 65

Business
The Business Administration and Legal Assistant/Paralegal Department at Central Texas College offers 21 degrees and certificates through three divisions. Degree attainment in the career fields of business management, the hospitality industry, the legal assistant profession, homeland security, and real estate are available.

The Associate of Science degree in Business Administration is designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas.

The Associate of Applied Science and the certificate awards are designed to provide an entry-level, industry-validated “hands-on” approach to learning.

Business Administration (BUB8)
520101
Associate of Science Degree

First Year
First Semester
BUSA  1301 Business Principles 3
SCIE  Natural Science (see BIOL, CHEM, GEOL, and PHYS)* 4
HIST  U.S. History I* 3
ENGL  Composition I* 3
MATH  College Algebra* 4
KINE  Physical Activity Course* 1

Second Semester
BUSA  1372 Financial Management of Personal Accounts 3
ENGL  English Selection 3
ELCT  BMGT/HRPO/BUSG 3
SPCH  Speech Selection 3
ELCT  ITSC 1409 or BCIS 1405 4
KINE  Physical Activity Course 1

Second Year
First Semester
ACCT  Principles of Financial Accounting 3
HRPO  Human Resource Management 3
BMGT  Supervision 3
ELCT  BMGT/HRPO/BUSG 3
KINE  Physical Activity Course 1

Second Semester
ELCT  Social/Behavioral Science Selection 3
BUSG  Business Law/Contracts 3
or
BUSI  Business Law 3
MRKG  Principles of Marketing 3
ELCT  BMGT/BUSG/HRPO or Approved Selection 3
ELCT  BMGT/BUSG/ITSW/ITSC/ITSE 3
KINE  Physical Activity Course 1

Total Hours 65
### Applied Management with Computer Applications (BUAMC) 520201

**Associate of Applied Science Degree**

(Offered at locations outside of Texas under Military Contract Obligation)

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<td>Computer Science Elective</td>
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<tr>
<td>MTMS 1301</td>
<td>Human Relations</td>
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<tr>
<td>ELCT 1302</td>
<td>Principles of Managerial Accounting</td>
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<td>MTMS 1405</td>
<td>Computer Technology Skills</td>
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<td>BMGT 1301</td>
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<tr>
<td>BMGT 1325</td>
<td>Office Management</td>
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<td>MATH 1322</td>
<td>Principles of Management</td>
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<td>MTMS 1272</td>
<td>Job Performance and Motivation</td>
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<tr>
<td>MTHO 1370</td>
<td>Historical Principles of War</td>
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### Business Management (BUBM) 520201

**Associate of Applied Science Degree**

(Offered at locations outside of Texas under Military Contract Obligation)

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<td>Composition I</td>
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<td>ITSC 1409</td>
<td>Integrated Software Applications I</td>
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<td>MRKG 1311</td>
<td>Principles of Marketing</td>
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### Applied Management - Military Science Specialization (BUAMM) 520201

**Associate of Applied Science Degree**

(Offered at the Europe Campus under Military contract obligation)

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<td>Human Relations</td>
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### Business Management (BUBM) 520201
#### Certificate of Completion

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<td>Integrated Software Applications</td>
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<td>MRKG 1311</td>
<td>Principles of Marketing</td>
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#### Second Semester

| HRPO 2301      | Human Resource Management | 3 |
| BMGT 1301      | Supervision | 3 |
| BUSG 2305      | Business Law/Contracts | 3 |
| or BUSI 2301   | Business Law | 3 |
| ELCT BUSI/BMGRT/RELE/MRKG | 3 |
| or ELCT BMGT 2370, BMGT 2488, RELE 2488 | 3-4 |

**Total Hours** 31-32

### Entrepreneurship (BUEN) 520201
#### Certificate of Completion

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<td>Integrated Software Applications</td>
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<td>or BCIS 1405</td>
<td>Business Computer Applications</td>
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<td>MRKG 1311</td>
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<tr>
<td>ACCT 2301</td>
<td>Principles of Financial Accounting</td>
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#### Second Semester

| HRPO 2301      | Human Resource Management | 3 |
| BUSG 2305      | Business Law/Contracts | 3 |
| or BUSI 2301   | Business Law | 3 |
| ELCT BUSI/BMGRT/IMED/RELE/MRKG | 3 |
| or ELCT BMGT 2370, BMGT 2488, RELE 2489 | 3-4 |

**Total Hours** 25-26
Computer Science

The selection of an appropriate degree plan is a critical step for an entering computer science student. Each degree and certificate leads to a specific career in the field of computer science. To make an informed career decision, students should gather information from many different sources.

Business Programmer Analyst (CSBP) 111002
Associate of Applied Science Degree

Programmer Analysts are computer professionals who determine system requirements and write computer programs to satisfy those requirements. Assignments consist of on-the-job application programs for the student to analyze, code, and run in the lab. Courses in C, C++, Visual Basic, JAVA, Web Authoring, and Systems Analysis provide the skills required in today’s job market.

**First Year**

**First Semester**
- ITNW 1437 Introduction to the Internet 4
- ITSE 1431 Introduction to Visual Basic Programming 4
- ITSC 1409 Integrated Software Applications I 4
- ENGL 1301 Composition I 3
- MATH MATH 1332, 1342 or higher level 3

**Second Semester**
- ITSE 2413 Web Authoring 4
- COSC 2425 Computer Organization and Machine Language 4
- ITSC 1405 Introduction to PC Operating Systems 4
- GAME 1403 Introduction to Game Design and Development 4
- KINE Physical Activity Course 1

**Second Year**

**First Semester**
- ITSY 2400 Operating Systems Security 4
- ITSE 1407 Introduction to C++ Programming 4
- ITSC 1415 Project Management Software 4
- IMED 2409 Internet Commerce 4
- ELCT Social/Behavioral Science Selection 3

**Second Semester**
- ITSE 2417 JAVA Programming 4
- ITSE 2431 Advanced C++ Programming 4
- ITSE 1450 System Analysis and Design 4
- SPCH SPCH 1315 or 1321 3
- ELCT Humanities/Fine Arts Selection 3

**Total Hours** 72

Information Security Management (CSSM)
111003
Associate of Applied Science Degree

The security manager determines policies and procedures to safeguard data on computers and networks, and monitors compliance. As ever increasing amounts of personal, business, and national security information is stored on computers, special attention must be paid to its security. Information must be protected as a business asset, to assure privacy, and to further national security.

**First Year**

**First Semester**
- COSC 1301 Introduction to Computing 3
- ITSC 1409 Integrated Software Applications I 4
- ITSY 1400 Fundamentals of Information Security 4
- ENGL 1301 Composition I 3
- KINE Physical Activity Course 1

**Second Semester**
- ITSY 2401 Firewalls and Network Security 4
- ITSC 1405 Introduction to PC Operating Systems 4
- ITNW 1437 Introduction to the Internet 4
- ITNW 1425 Fundamentals of Networking Technologies 4

**Second Year**

**First Semester**
- ITSY 2459 Security Assessment & Auditing 4
- ITSY 2400 Operating System Security 4
- ELCT Humanities/Fine Arts 3
- ELCT Social/Behavioral Science Selection 3
- SPCH SPCH 1315 or 1321 3

**Second Semester**
- ITSC 2439 Personal Computer Help Desk 4
- MATH MATH 1332, 1342 or higher level 3
- ITSC 1415 Project Management Software 4
- ITSY 2441 Security Management Practices 4

**Total Hours** 63

Information Security Management Specialist (CSSM)
111003
Certificate of Completion

**First Semester**
- COSC 1301 Introduction to Computing 3
- ITSC 1409 Integrated Software Applications I 4
- ITSY 1400 Fundamentals of Information Security 4
- ITSY 2401 Firewalls and Network Security 4

**Second Semester**
- ITSY 1405 Introduction to PC Operating Systems 4
- ITSC 2439 Personal Computer Help Desk 4
- ITSY 2441 Security Management Practices 4
- ITSC 1415 Project Management Software 4

**Total Hours** 31
Information Technology (CSIT)
111002
Associate of Applied Science Degree

The primary job function of the Information Management professional is to assist others with using computer technology in the performance of their jobs. This requires a general knowledge of PC hardware and software, to include operating systems and applications such as word processors and spreadsheets, and the internet. This degree offers a clear path to understanding computers and today’s technology.

First Year
First Semester Credit
COSC 1301 Introduction to Computing 3
or
ITSC 1409 Integrated Software Applications I 4
ITNW 1437 Introduction to the Internet 4
IMED 1416 Web Design I 4
ELCT Social/Behavioral Science Selection 3
KINE Physical Activity Course 1

Second Semester
ITSC 1405 Introduction to PC Operating Systems 4
ITSW 1401 Introduction to Word Processing 4
ITSW 1404 Introduction to Spreadsheets 4
ITSW 1407 Introduction to Database 4
ENGL 1301 Composition I 3

Second Year
First Semester
ITSE 1431 Introduction to Visual Basic 4
ITNW 1425 Fundamentals of Networking Technologies 4
IMED 2409 Internet Commerce 4
ITSC 2439 Personal Computer Help Desk Support 4
ELCT Humanities/Fine Arts Selection 3

Second Semester
ITSC 1415 Project Management Software 4
ITSE 1450 System Analysis and Design 4
ITSY 2400 Operating Systems Security 4
MATH MATH 1332, 1342 or higher level 3
SPCH SPCH 1315 or 1321 3
Total Hours 71-72

Network Systems Administrator (CSNS)
111002
Certificate of Completion

A Network Systems Administrator plans, installs, and maintains multi-user networks. Job duties include: networking systems with different types of hardware and operating systems, ensuring system security and integrity, troubleshooting and repairing network problems, training network users, and writing technical documentation.

First Year
First Semester Credit
ITSC 1409 Integrated Software Applications I 4
ITSE 1431 Introduction to Visual Basic 4
ENGL 1301 Composition I 3
MATH MATH 1332, 1342 or higher level 3
KINE Physical Activity Course 1

Second Semester
COSC 2425 Computer Organization and Machine Language 4
ITSC 1405 Introduction to PC Operating Systems 4
ELCT Social/Behavioral Science Selection 3
ITNW 1437 Introduction to the Internet 4

Second Year
First Semester
ITSC 2439 Personal Computer Help Desk Support 4
ITNW 2405 Network Administration 4
ITSY 2400 Operating Systems Security 4
ITNW 1425 Fundamentals of Networking Technologies 4
ELCT Humanities/Fine Arts Selection 3

Second Semester
ITSC 1405 Personal Computer Help Desk Support 4
ITNW 2435 Network Troubleshooting & Support 4
or
ITSE 2413 Web Authoring 4
IMED 2409 Internet Commerce 4
SPCH SPCH 1315 or SPCH 1321 3
ITSC 1415 Project Management Software 4
Total Hours 68

Computer Helpdesk Specialist (CS19)
1110301
Certificate of Completion

First Semester
ITNW 1437 Introduction to the Internet 4
ITSW 1404 Introduction to Spreadsheets 4
ITSC 1409 Integrated Software Applications I 4

Second Semester
ITSW 1407 Introduction to Database 4
IMED 1416 Web Design I 4
ITSC 1405 Introduction to PC Operating Systems 4
ITSC 2439 Personal Computer Help Desk Support 4
Total Hours 32
## Web Design Basics (CSWB)

**111004 Certificate of Completion**

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>ITSC 1409</td>
<td>Integrated Software Applications I</td>
</tr>
<tr>
<td>ITNW 1437</td>
<td>Introduction to the Internet</td>
</tr>
<tr>
<td>IMED 1416</td>
<td>Web Design I</td>
</tr>
<tr>
<td>ITSC 1405</td>
<td>Introduction to PC Operating Systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>IMED 2409</td>
<td>Internet Commerce</td>
</tr>
<tr>
<td>ITSE 1450</td>
<td>System Analysis &amp; Design</td>
</tr>
<tr>
<td>ITSE 2413</td>
<td>Web Authoring</td>
</tr>
<tr>
<td>ITSY 2400</td>
<td>Operating System Security</td>
</tr>
</tbody>
</table>

**Total Hours:** 32

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## Microsoft Information Technology (MCITP) Server Administrator (MCSA10) 111002 Certificate of Completion

Upon successful completion of each course listed below the student can attempt certification exams offered by independent companies leading to certification as a MCITP Server Administrator, or COMPTIA's Network+, or Security+ certification.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ITNW 1458</td>
<td>Network**</td>
</tr>
<tr>
<td>ITNW 1416</td>
<td>Network Administration**</td>
</tr>
<tr>
<td>ITNW 2454</td>
<td>Internet/Intranet Server**</td>
</tr>
<tr>
<td>ITNW 1454</td>
<td>Implementing and Supporting Servers**</td>
</tr>
<tr>
<td>ITSY 1442</td>
<td>Information Technology Security***</td>
</tr>
</tbody>
</table>

**Total Hours:** 20

*Recommended as 1st courses. After completion of ITNW 1458 the student can take the COMPTIA exam leading to COMPTIA Network Certification.

**These three courses will prepare students to sit for the exams leading to a Microsoft MCITP Server Administrator Certification.

***This course is recommended for students wanting to complete the exam leading to a COMPTIA Security Certification.

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## Drafting and Design

The Computer-Aided Drafting & Design Department (CADD) at Central Texas College provides a flexible, competency-based program of study. The program is based on the competencies which are common to all drafting and design technicians. Emphasis is on developing the student’s critical thinking process, world of work skills, as well as drafting procedures and techniques.

### Computer-Aided Drafting and Design (DFDS) 151301 Associate of Applied Science Degree

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester</td>
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</tr>
<tr>
<td>ENGR 1304</td>
<td>Engineering Graphics I*</td>
</tr>
<tr>
<td>DFTG 2412</td>
<td>Technical Illustration and Presentation</td>
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<tr>
<td>DFTG 1409</td>
<td>Basic Computer-Aided Drafting</td>
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<tr>
<td>MATH</td>
<td>MATH 1332, 1342 or 1414</td>
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</table>

| Second Semester |  |
| ENGR 1305 | Engineering Graphics II* | 3 |
| DFTG 2402 | Machine Drafting | 4 |
| DFTG 2440 | Solid Modeling/Design | 4 |
| ENGL 1301 | Composition I | 3 |
| SPCH     | SPCH 1315 or 1321 | 3 |

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Credit</th>
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<tbody>
<tr>
<td>First Semester</td>
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<tr>
<td>DFTG 1417</td>
<td>Architectural Drafting-Residential</td>
</tr>
<tr>
<td>DFTG 1458</td>
<td>Electrical/Electronics Drafting</td>
</tr>
<tr>
<td>ARCE 1452</td>
<td>Structural Drafting</td>
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<td>Approved Elective</td>
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<tr>
<td>ELCT</td>
<td>Humanities/Fine Arts Selection</td>
</tr>
</tbody>
</table>

| Second Semester |  |
| DFTG 2423 | Pipe Drafting | 4 |
| DFTG 2421 | Topographical Drafting | 4 |
| DFTG 2438 | Final Project -Advanced Drafting | 4 |
| ELCT | Social/Behavioral Science Selection | 3 |

**Total Hours:** 64-65

* Locations at a distance may substitute DFTG 1405 for ENGR 1304 and DFTG 2417 for ENGR 1305.

### Computer-Aided Drafting and Design (DFDS) 151301 Certificate of Completion

<table>
<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>ENGR 1304</td>
</tr>
<tr>
<td>ENGR 1305</td>
</tr>
<tr>
<td>DFTG 1409</td>
</tr>
<tr>
<td>DFTG 2402</td>
</tr>
<tr>
<td>DFTG 2440</td>
</tr>
<tr>
<td>DFTG 2412</td>
</tr>
<tr>
<td>MATH 1332</td>
</tr>
</tbody>
</table>

**Total Hours:** 25

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Central Texas College C&I Campuses Catalog 2010-2011 - Programs of Study 37
## Early Childhood Professions

People working with young children must have special skills: knowledge of child development, boundless patience, good judgment, real strength of character, and maturity to exercise the balance of control and latitude such young children require. Few fields offer so many job opportunities for people with such varying levels of education, in such a variety of settings, and with as many different scheduling patterns.

### Early Childhood Professions (CDEC)

#### 190709

**Associate of Applied Science Degree**

The courses for this degree may be taken in any sequence. The Early Childhood Profession courses, CDEC, have no required prerequisites.

<table>
<thead>
<tr>
<th>First Year</th>
<th>First Semester Credit</th>
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</thead>
<tbody>
<tr>
<td>CDEC 1311</td>
<td>Educating Young Children** 3</td>
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<tr>
<td>CDEC 1313</td>
<td>Curriculum Resources for Early Childhood Programs 3</td>
</tr>
<tr>
<td>CDEC 1319</td>
<td>Child Guidance 3</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I 3</td>
</tr>
<tr>
<td>CDEC 1359</td>
<td>Children with Special Needs* 3</td>
</tr>
<tr>
<td>KINE</td>
<td>Physical Activity Course 1</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
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<tbody>
<tr>
<td>CDEC 1358</td>
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<tr>
<td>CDEC 1354</td>
</tr>
<tr>
<td>CDEC 1318</td>
</tr>
<tr>
<td>CDEC 1303</td>
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<tr>
<td>CDEC 1356</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
<th>First Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDEC 1321</td>
<td>The Infant and Toddler 3</td>
</tr>
<tr>
<td>CDEC 2326</td>
<td>Administration of Programs for Children I 3</td>
</tr>
<tr>
<td>or CDEC 2328</td>
<td>Admin. of Programs for Children I 3</td>
</tr>
<tr>
<td>or ELCT</td>
<td>Computer Technology Skills 4</td>
</tr>
<tr>
<td>or SPCH</td>
<td>SPCH 1315, 1321 or 2341 3</td>
</tr>
<tr>
<td>or MATH</td>
<td>MATH 1324, 1332, 1342 or higher level 3</td>
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<tr>
<td>or ENVR</td>
<td>Environmental Science 4</td>
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<td>CDEC 1335</td>
<td>Early Childhood Development: 3-5 Years 3</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CDEC 2307</td>
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<tr>
<td>CDEC 2384</td>
</tr>
<tr>
<td>CDEC 2341</td>
</tr>
<tr>
<td>CDEC 1195</td>
</tr>
<tr>
<td>ELCT</td>
</tr>
<tr>
<td>ELCT</td>
</tr>
</tbody>
</table>

| Total Hours  | 66-67 |

* CDEC 1371 and 2340 may substitute
** TECA 1311 may be substituted for CDEC 1311
TECA 1318 may be substituted for CDEC 1318
TECA 1303 may be substituted for CDEC 1303
TECA 1354 may be substituted for CDEC 1354

TECA courses are the general academic transfer course equivalent to the CDEC courses.

### Administrator's Credentials (CDAC)

#### 190708

**Certificate of Completion**

<table>
<thead>
<tr>
<th>First Semester Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDEC 1311</td>
</tr>
<tr>
<td>or CDEC 2341</td>
</tr>
<tr>
<td>or CDEC 1313</td>
</tr>
<tr>
<td>or CDEC 2307</td>
</tr>
<tr>
<td>or CDEC 1319</td>
</tr>
<tr>
<td>or CDEC 2326</td>
</tr>
<tr>
<td>or ENGL 1301</td>
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<table>
<thead>
<tr>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>CDEC 1354</td>
</tr>
<tr>
<td>CDEC 1318</td>
</tr>
<tr>
<td>CDEC 2328</td>
</tr>
<tr>
<td>CDEC 2384</td>
</tr>
<tr>
<td>ELCT</td>
</tr>
</tbody>
</table>

| Total Hours  | 30 |

* TECA 1311 may be substituted for CDEC 1311
TECA 1318 may be substituted for CDEC 1318
TECA 1303 may be substituted for CDEC 1303
TECA 1354 may be substituted for CDEC 1354

TECA courses are the general academic transfer course equivalent to the CDEC courses.
Electronics

Computer Electronics and Networking has become the fastest growing technology career field in the world today. There are computers and networking systems imbedded in all facets of our lives. The Central Texas College Electronics program is designed for the student who wishes to enter the computer repair or networking career fields. It provides entry-level, industry-validated, hands-on instruction covering Computer Servicing and Repair and Computer Networking using state of the art tools and methodologies. Upon completion of this program of study, CTC graduates can expect to enter the job market with the skills required to succeed in this fast-paced industry.

Communications Electronics (ELCU)

150305
Associate of Applied Science Degree
(Offered at locations outside of Texas under Military Contract Obligation)

First Year
First Semester
CETT 1421 Electronics Fabrication 4
CETT 1425 Digital Fundamentals 4
CETT 1403 DC Circuits 4
CPMT 1403 Introduction to Computer Technology 4

Second Semester
MATH MATH 1332, 1342 or higher level 3
CETT 1405 AC Circuits 4
CETT 1429 Solid State Devices 4
ENGL 1301 Composition I 3
ELCT Social/Behavioral Science Selection 3

Second Year
First Semester
ECT 1476 Digital Communications 4
ELCT Humanities/Fine Arts Selection 3
ECT 1476 Digital Communications 4
ELCT Academic Elective from Humanities/ Fine Arts, Social/Behavioral Science, Natural Science/Mathematics 3

Total Hours 66

Computer Electronics Technology (ELCP)

151202
Certificate of Completion

First Year
First Semester
CETT 1421 Electronics Fabrication 4
CETT 1425 Digital Fundamentals 4
CETT 1403 DC Circuits 4
CPMT 1403 Introduction to Computer Technology 4

Second Semester
CPMT 1445 Computer Systems Maintenance 4
CPMT 1449 Computer Networking Technology 4
CETT 1449 Digital Systems 4
CETT 1441 Solid State Circuits 4

Second Semester
CPMT 1445 Computer System Troubleshooting 4
ELMT 2435 Certified Electronics Technician Training 4
ELCT Humanities/Fine Arts Selection 3
ELCT Approved Technical Elective 3–4
SPCH SPCH 1315 or 1321 3

Total Hours 66–67

Cooperative Education (ELCP)

151202
Certificate of Completion

First Semester
CETT 1403 Introduction to Computer Technology 4
CETT 1425 Digital Fundamentals 4
CETT 1403 DC Circuits 4
ENGL 1301 Composition I 3

Second Semester
CETT 1405 AC Circuits 4
CETT 1429 Solid State Devices 4
CPMT 1445 Computer Systems Maintenance 4
SPCH SPCH 1315 or 1321 3

Total Hours 30
Emergency Medical Technology

The Emergency Medical Technology program is offered to certified EMT-B or Advanced EMT applicants. Upon successful completion, students are eligible to take the exam to become certified as an Emergency Medical Technician – Paramedic through the National Registry of EMTs (NREMT) and the Texas Department of State Health Services. Central Texas College offers the certificate of completion and an Associate Degree in Applied Science.

Emergency Medical Technology (EMT9)
510904
Associate of Applied Science Degree

First Year
First Semester
Course Title Credit
EMSP 1401 Emergency Medical Technician - Basic 4
EMSP 1160 Clinical-EMT 1
BIOL 2401 Anatomy and Physiology I 4
PSYC 2314 Life Span Growth and Development 3
KINE  Physical Activity Course 1

Second Semester
Course Title Credit
EMSP 1356 Patient Assessment and Airway Management 3
EMSP 1338 Introduction to Advanced Practice 3
EMSP 1355 Trauma Management 3
EMSP 1166 Practicum-EMT 1
BIOL 2402 Anatomy and Physiology II 4
ELCT  Elective 3

Third Semester
Course Title Credit
EMSP 2444 Cardiology 4
ENGL 1301 Composition I 3
PSYC 2301 General Psychology 3

Second Year
First Semester
Course Title Credit
EMSP 2434 Medical Emergencies 4
SPCH 1315, 1318 or 1321 3
KINE  Physical Activity Course 1
ELCT  Humanities/Fine Arts Selection 3
EMSP 1167 Practicum-EMT 1

Second Semester
Course Title Credit
EMSP 2330 Special Populations 3
BIOL 2421 Microbiology for Science Majors 4
ITSC 1409 Integrated Software Applications I 4

Third Semester
Course Title Credit
EMSP 2143 Assessment Based Management 1
EMSP 1268 Practicum-EMT 2
EMSP 2338 EMS Operations 3
Total Hours 69

EMT - Paramedic (EMP9)
510904
Certificate of Completion

Upon successful completion of EMSP 1401 and EMSP 1160, students are eligible to sit for the EMT-Basic exam.

Upon successful completion of EMSP 1355, EMSP 1356 and EMSP 1166 students are eligible to sit for the Advanced EMT exam.

Upon successful completion of the certificate, students are eligible to sit for the EMT-Paramedic exam.

General Studies

The two-year General Studies program offers a wide selection of courses to fulfill degree requirements for students who have special education needs that are not satisfied by other degree programs; who want to experiment in diverse areas; who want to expand their base of knowledge or enhance their personal development; who are looking for particular skills; or who are employed and feel a need to expand overall skills to better meet new employment needs.

General Studies (GSTU) 240102
Associate of Arts Degree

This is a suggested curriculum. Students must have a minimum of 16 semester credit hours within the Central Texas College System.

First Year
First Semester
Course Title Credit
ENGL 1301 Composition I 3
HIST 1301 United States History I 3
MATH 1332, 1342 or higher level 3
KINE  Physical Activity Course 1
ELCT  Electives* 9

Second Semester
Course Title Credit
SPCH  Speech Selection 3
HIST  United States History II 3
MATH  MATH 1332, 1342 or higher level 3
ELCT  Electives* 4
ELCT  Computer Technology Skills 3

Second Year
First Semester
Course Title Credit
GOVT  American Government I 3
ELCT  Electives* 12
KINE  Physical Activity Course 1
Students who plan to transfer to other institutions for degree completion or to pursue a more advanced degree are advised to consult with officials of receiving school for degree requirements and transfer policy.

* Students may select 34-37 semester credit hours from courses that fulfill the student’s educational goals.

**Heating and Air Conditioning**

This program is designed for students desiring to prepare themselves for a career in residential and commercial air conditioning and refrigeration. The program provides entry-level, industry-validated “hands-on” instruction using current technologies and equipment.

Studies include air conditioning and refrigeration principles and theory, electrical theory and application, gas and electrical heating, A/C central principles, residential and commercial air conditioning, system design, commercial refrigeration, heat pumps and troubleshooting.

**Heating, Air Conditioning and Refrigeration Mechanic and Repairer (HART) 470201**

**Associate of Applied Science Degree**

### First Year

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>HART 1407</td>
<td>Refrigeration Principles</td>
<td>4</td>
</tr>
<tr>
<td>HART 1401</td>
<td>Basic Electricity for HVAC</td>
<td>4</td>
</tr>
<tr>
<td>HART 1445</td>
<td>Gas and Electric Heating</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1332</td>
<td>Contemporary Mathematics</td>
<td>3</td>
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<tr>
<td>KINE</td>
<td>Physical Activity Course</td>
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#### Second Semester

<table>
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<tr>
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<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>HART 1403</td>
<td>Air Conditioning Control Principles</td>
<td>4</td>
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<tr>
<td>HART 1441</td>
<td>Residential Air Conditioning</td>
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<tr>
<td>ELCT</td>
<td>Computer Technology Skills</td>
<td>4</td>
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<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
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<tr>
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### Second Year

#### First Semester

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<tbody>
<tr>
<td>HART 2449</td>
<td>Heat Pumps</td>
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<tr>
<td>HART 2431</td>
<td>Advanced Electricity for HVAC</td>
<td>4</td>
</tr>
<tr>
<td>HART 2441</td>
<td>Commercial Air Conditioning</td>
<td>4</td>
</tr>
<tr>
<td>HART 2442</td>
<td>Commercial Refrigeration</td>
<td>4</td>
</tr>
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<td>Humanities/Fine Arts Selection</td>
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#### Second Semester

<table>
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<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>HART 2436</td>
<td>Air Conditioning Troubleshooting</td>
<td>4</td>
</tr>
<tr>
<td>HART 2438</td>
<td>Air Conditioning Installation and Startup</td>
<td>4</td>
</tr>
<tr>
<td>SPCH</td>
<td>SPCH 1315 or 1321</td>
<td>3</td>
</tr>
<tr>
<td>HART 2445</td>
<td>Residential Air Conditioning System Design</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>HART 2488 Internship</td>
<td>4</td>
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</tbody>
</table>

**Total Hours 64**

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**Commercial Heating, Air Conditioning and Refrigeration (HARC) 470201**

**Certificate of Completion**

### First Year

#### First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>HART 1407</td>
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</tr>
<tr>
<td>HART 1401</td>
<td>Basic Electricity for HVAC</td>
<td>4</td>
</tr>
<tr>
<td>HART 1445</td>
<td>Gas and Electric Heating</td>
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<td>HART 1403</td>
<td>Air Conditioning Control Principles</td>
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#### Second Semester

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<td>Air Conditioning Troubleshooting</td>
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<td>HART 2445</td>
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**Total Hours 48**

### Second Year

#### First Semester

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**Total Hours 40**

**Residential Heating, Air Conditioning and Refrigeration (HARR) 470201**

**Certificate of Completion**

### First Year

#### First Semester

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**Total Hours 40**

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Central Texas College C&I Campuses Catalog 2010-2011 - Programs of Study 41
The Central Texas College Hospitality Management program offers an Associate in Applied Science degree in three areas of specialization: Restaurant and Culinary Management, Food and Beverage Management and Hotel Management.

Students at CTC have an opportunity to complete their Associate of Applied Science Degree using a "stepping stone" approach. Students may begin by completing one or several of the certificates of completion available. The semester credit hours earned through these certificates can be applied to the requirements of Associates of Applied Science degree. These certificates, ranging from 21 to 41 semester credit hours, will enable the student to put their education to work for them in a shorter period of time and still pursue the Associate of Applied Science Degree. These certificates include Property Management, Institutional Food Service Operations, Culinary Arts, Rooms Divisions, Food and Beverage Management, Restaurant Skills and Restaurant Operations.

Restaurant and Culinary Management (HMRCM) 520901
Associate of Applied Science Degree

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<td>CHEF 1301 Basic Food Preparation</td>
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Hotel Management Specialization (HMHM) 520901
Associate of Applied Science Degree

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* HAMG 1324 may substitute.

Culinary Arts (HMCA) 520905
Certificate of Completion

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### Restaurant Skills (HMR9)

#### 520905

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### Baking (HMBK9)

#### 520905

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<td>Cake Decorating</td>
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<td>PSTR 2350</td>
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### Property Management Advanced (HMPM)

#### 520904

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<td>HAMG 1324</td>
<td>Hospitality Human Resources</td>
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### Rooms Division (HMRD)

#### 520904

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### Food and Beverage Management Specialization (HMFB)

#### 520901

**Associate of Applied Science Degree**

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Food and Beverage Management
(HMFOL)
520901
Certificate of Completion
(Offered at locations outside of Texas under Military Contract Obligation)

Lower Division Major Courses:
Total of 23 credits, select from among the Following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEF 1305</td>
<td>Sanitation and Safety</td>
<td>3</td>
</tr>
<tr>
<td>HAMG 1319</td>
<td>Computers in Hospitality</td>
<td>3</td>
</tr>
<tr>
<td>HAMG 1324</td>
<td>Hospitality Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>HAMG 2301</td>
<td>Principles of Food and Beverage Operations</td>
<td>3</td>
</tr>
<tr>
<td>RSTO 1204</td>
<td>Dining Room Service</td>
<td>2</td>
</tr>
<tr>
<td>RSTO 1313</td>
<td>Hospitality Supervision</td>
<td>3</td>
</tr>
<tr>
<td>HAMG 1321</td>
<td>Intro to the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>RSTO 2201</td>
<td>Principles of Food and Beverage Controls</td>
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</table>

Hospitality
Select three of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>HAMG 1313</td>
<td>Front Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HAMG 1342</td>
<td>Guest Room Maintenance</td>
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</tr>
<tr>
<td>HAMG 2337</td>
<td>Hospitality Facilities Management</td>
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<td>HAMG 2372</td>
<td>Hospitality Industry Training</td>
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<tr>
<td>TRVM 2301</td>
<td>Introduction to Convention and Meeting Management</td>
<td>3</td>
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Total Hours: 32

Legal Assistant

The Paralegal/Legal Assistant curriculum is designed primarily for persons who seek full or part-time employment as paralegals. The curriculum also serves students who are exploring their interest in law related careers, including as lawyers. The 2-year program culminates in an Associate of Applied Science Degree. Students may start in the program in any of the three semesters and each semester, one or more classes are offered online.

Paralegal/Legal Assistant (LAP8)
220302
Associate of Applied Science Degree

Interdisciplinary Studies

The Interdisciplinary Studies Associate of Arts degree offers a wide selection of courses to fulfill degree requirements for students who have special education desires that are not satisfied by other degree programs. Completion of the Core requirements will maximize transfer credit for those students who want to pursue a Baccalaureate degree. Students planning to attend a senior college should coordinate with that senior college to ensure that the courses taken at Central Texas College will fulfill the degree requirements there.

Interdisciplinary Studies (IDST)
240101

Interdisciplinary Studies (IDST)

Associate of Arts Degree

Complete Core ................................................................. 42
Health/Wellness/ Kinesiology (KINE Activity Courses)...... 3
Computer Technology ....................................................... 3
Foreign Language (FREN, GERM, SPAN, JAPN) ............... 8
Specialization - University Parallel, Texas Common
Course (TCCN) ................................................................. 10
Total Hours ................................................................. 66
Maintenance Technology

This program is for the student who wishes to enter a Building Trades (Construction or Maintenance) career field. The program provides entry-level, industry-validated, hands-on instruction that prepares the student to enter and be successful in the job market.

Studies in the Maintenance Technology AAS degree include basic shop skills; electrical wiring; plumbing; painting and refinishing (interior and exterior); carpentry to include roofing, flooring, walls, doors, and windows, cabinets; welding; estimating; blueprint reading; and air conditioning/heating.

Maintenance Technology (MTNT) 460401
Associate of Applied Science Degree

First Year

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>CRPT 1429</td>
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<tr>
<td>HART 1407</td>
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<tr>
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<tr>
<td>MATH 1332</td>
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<td>KINE</td>
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Second Semester

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<td>ELPT 1411</td>
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<td>ENGL 1301</td>
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<tr>
<td>CRPT 1411</td>
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<td>ELEC</td>
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<tbody>
<tr>
<td>CRPT 1415</td>
</tr>
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<td>HART 1445</td>
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<tr>
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<tr>
<td>GOVT</td>
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Second Year

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<tbody>
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<td>MBST 1507</td>
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<td>PFPB 2445</td>
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<thead>
<tr>
<th>Credit</th>
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<tbody>
<tr>
<td>or</td>
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<tr>
<td>CBFM 2487</td>
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Total Hours: 72

Mathematics

The Associate of Science degree in Mathematics is designed for the student wishing to pursue a Baccalaureate degree. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas.

Mathematics (MATH) 270101
Associate of Science Degree

Complete Core: 42
Health/Wellness/ Kinesiology (KINE Activity Courses): 3
Computer Technology: 4
Mathematics Selection (MATH 2413 and MATH 2414): 8
Natural Science Selection (BIOL, CHEM, PHYS, GEOL): 4
Mathematics Specialization: 7
Total Hours: 68

MATH 2318 Linear Algebra, MATH 2320 Differential Equations, MATH 2412 Precalculus Math, MATH 2415 Calculus III.

Mental Health Services

The Mental Health Services program offers Associate of Applied Science degrees and Certificates of Completion in the specialized areas of, Chemical Dependency, At Risk Youth, Social Work and Criminal Justice Addictions. These degrees and certificates are designed for students seeking employment in Mental Health related career fields. Employment opportunities in the Mental Health Services field are expected to rise due to the increased number of older persons, many of whom will require mental health services; increased public acceptance of formal treatment for substance abuse; and a lessening of the stigma attached to those receiving mental health care. Additionally, CTC’s Associate of Applied Science degrees and certificates lay the foundation for those students wishing to pursue a Baccalaureate degree in Mental Health related career fields.

At Risk Youth Specialization (MHA8) 511503
Associate of Applied Science Degree

First Year

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
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<tr>
<td>DAAC 1319</td>
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<td>PSYC 1300</td>
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Second Semester

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<tr>
<td>CMSW 1309</td>
</tr>
<tr>
<td>DAAC 1311</td>
</tr>
<tr>
<td>PSYC 2301</td>
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Total Hours: 72
### Third Semester
- **KINE** 2331: Physical Activity Course (3 hours)
- **PSYT** 2321: Abnormal Psychology (3 hours)

### Second Year
#### First Semester
- **PSYT** 2345: Principles of Behavior Management and Modification (3 hours)
- **ELCT** 2311: Mental Health Elective (3 hours)
- **ENGL** 2311: Technical and Business Writing (3 hours)
- **DAAC** 2307: Addicted Family Intervention (3 hours)
- **DAAC** 2354: Dynamics of Group Counseling (3 hours)

#### Second Semester
- **MATH** 1332 or 1342 (3 hours)
- **SCWK** 2301: Assessment and Case Management (3 hours)
- **CMSW** 1167: Practicum (1 hour)
- **SPCH** 1315 or 1321: Humanities/Fine Arts Selection (3 hours)

### Total Hours: 65

---

### At Risk Youth Specialization Advanced Certificate (MHAR) 511503

#### Certificate of Completion

#### First Semester
- **PSYT** 1329: Interviewing & Communication Skills (3 hours)
- **DAAC** 1319: Introduction to Alcohol and Other Drug Addictions (3 hours)
- **DAAC** 1304: Pharmacology of Addiction (3 hours)
- **CMSW** 1309: Problems of Children and Adolescents (3 hours)
- **PSYC** 1300: Learning Frameworks (3 hours)

#### Second Semester
- **PSYT** 2345: Principles of Behavior Management and Modification (3 hours)
- **CMSW** 1313: Assessment and Service Delivery (3 hours)
- **DAAC** 1311: Counseling Theories (3 hours)
- **PSYT** 2321: Crisis Intervention (3 hours)

#### Third Semester
- **SCWK** 2301: Assessment and Case Management (3 hours)
- **PSYT** 2331: Abnormal Psychology (3 hours)
- **DAAC** 2354: Dynamics of Group Counseling (3 hours)
- **CMSW** 1167: Practicum (1 hour)

### Total Hours: 67

---

### Chemical Dependency Specialization - Advanced Certificate (MHCA) 511503

#### Certificate of Completion

#### First Semester
- **PSYT** 1329: Interviewing & Communication Skills (3 hours)
- **DAAC** 1319: Introduction to Alcohol and Other Drug Addictions (3 hours)
- **DAAC** 1304: Pharmacology of Addiction (3 hours)
- **CMSW** 1309: Assessment Skill of Alcohol and Other Drug Addictions (3 hours)
- **CMSW** 1309: Problems of Children and Adolescents (3 hours)

#### Second Semester
- **PSYT** 2331: Abnormal Psychology (3 hours)
- **DAAC** 2307: Addicted Family Intervention (3 hours)
- **DAAC** 2301: Therapeutic Communities in the Criminal Justice Setting (3 hours)
- **ELCT** 1301: Mental Health Elective (3 hours)
- **ENGL** 1301: Technical and Business Writing (3 hours)
- **DAAC** 2307: Addicted Family Intervention (3 hours)
- **DAAC** 2354: Dynamics of Group Counseling (3 hours)

#### Third Semester
- **DAAC** 2341: Counseling Alcohol and Other Drug Addictions (3 hours)
- **DAAC** 2367: Practicum (3 hours)
- **SPCH** 1315 or 1321: Humanities/Fine Arts Selection (3 hours)
- **ELCT** 1301: Mental Health Elective (3 hours)

### Total Hours: 40

---

### Chemical Dependency Specialization - Associate of Applied Science Degree (MHC8) 511503

#### First Year

#### First Semester
- **PSYT** 1329: Interviewing & Communication Skills (3 hours)
- **DAAC** 1319: Introduction to Alcohol and Other Drug Addictions (3 hours)
- **DAAC** 1304: Pharmacology of Addiction (3 hours)
- **PSYC** 1300: Learning Frameworks (3 hours)
- **PSYT** 1309: Health Psychology (3 hours)

#### Second Semester
- **DAAC** 1309: Assessment Skills of Alcohol and Other Drug Addictions (3 hours)
- **ENGL** 1301: Composition I (3 hours)
- **CMSW** 1309: Problems of Children and Adolescents (3 hours)
- **DAAC** 1311: Counseling Theories (3 hours)
- **PSYC** 2301: General Psychology (3 hours)

#### Second Year

#### First Semester
- **KINE** 2331: Physical Activity Course (3 hours)
- **PSYT** 2321: Abnormal Psychology (3 hours)
- **PSYT** 2321: Crisis Intervention (3 hours)

#### Second Semester
- **DAAC** 2304: Assessment Skills of Alcohol and Other Drug Addictions (3 hours)
- **ENGL** 1301: Technical and Business Writing (3 hours)
- **DAAC** 2307: Addicted Family Intervention (3 hours)
- **DAAC** 2354: Dynamics of Group Counseling (3 hours)

#### Third Semester
- **DAAC** 2301: Therapeutic Communities in the Criminal Justice Setting (3 hours)
- **ELCT** 1301: Mental Health Elective (3 hours)
- **ENGL** 1301: Technical and Business Writing (3 hours)
- **DAAC** 2307: Addicted Family Intervention (3 hours)
- **DAAC** 2354: Dynamics of Group Counseling (3 hours)

### Total Hours: 39
### Criminal Justice Addictions (MHCJ) 511503

**Certificate of Completion**

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<th>Credit</th>
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<tbody>
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<td>PSYT 1329  Interviewing &amp; Communications Skills</td>
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</tr>
<tr>
<td>DAAC 1319  Introduction to Alcohol &amp; Other Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1304  Pharmacology of Addiction</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 1309  Assessment Skill of Alcohol &amp; Other Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2307  Addicted Family Intervention</td>
<td>3</td>
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</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYT 2331  Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2354  Dynamics of Group Counseling</td>
<td>3</td>
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<tr>
<td>PSYT 2321  Crisis Intervention</td>
<td>3</td>
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<tr>
<td>DAAC 2341  Counseling Alcohol &amp; Other Drug Addictions</td>
<td>3</td>
</tr>
<tr>
<td>DAAC 2301  Therapeutic Communities in a Criminal Justice Setting</td>
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<tr>
<td>DAAC 2367  Practicum</td>
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**Total Hours** 33

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### Social Work Specialization (MHS8) 511503

**Associate of Applied Science**

<table>
<thead>
<tr>
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<th>First Semester</th>
<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1301  Composition I</td>
<td>POFI 1301  Computer Applications I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1301  United States History I</td>
<td>POFI 1329  Beginning Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 1301  Introduction to Sociology</td>
<td>POFT 1301  Business English</td>
<td>3</td>
</tr>
<tr>
<td>PSYT 1329  Interviewing &amp; Communications Skills</td>
<td>POFT 1309  Administrative Office Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1300  Learning Frameworks</td>
<td>POFT 1319  Records &amp; Information Management I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 1316  Physical Activity Course</td>
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<thead>
<tr>
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<th>Credit</th>
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<tbody>
<tr>
<td>ENGL 1302  Composition II</td>
<td>POFI 2331  Desktop Publishing</td>
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<tr>
<td>HIST 1302  United States History II</td>
<td>ELCT 1301  Humanities/Fine Arts Selection</td>
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<tr>
<td>PSYC 2301  General Psychology</td>
<td>SPCH 1315 or 1321  SPCH</td>
</tr>
<tr>
<td>DAAC 1319  Introduction to Alcohol &amp; Other Drug Addictions</td>
<td>KINE 1316  Physical Activity Course</td>
</tr>
<tr>
<td>CMSW 1309  Problems of Children and Adolescents</td>
<td>ELCT 1316  POFI/POFT Internship Selection</td>
</tr>
</tbody>
</table>

**Total Hours** 68

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### Office Technology

**The Office Technology Department offers educational paths for meaningful careers in professional and health-related office settings. Students master state-of-the-art computer software applications as well as communication and interpersonal skills to equip them for employment in the global workforce.**

### Executive Assistant (OTEA) 520401

**Associate of Applied Science Degree**

<table>
<thead>
<tr>
<th>First Year</th>
<th>First Semester</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301  Composition I</td>
<td>POFI 1301  Computer Applications I</td>
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<tr>
<td>HIST 1301  United States History I</td>
<td>POFI 1329  Beginning Keyboarding</td>
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<td>SOCI 1301  Introduction to Sociology</td>
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<tbody>
<tr>
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<td>POFI 2331  Desktop Publishing</td>
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<td>HIST 1302  United States History II</td>
<td>ELCT 1301  Humanities/Fine Arts Selection</td>
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<td>PSYC 2301  General Psychology</td>
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<td>DAAC 1319  Introduction to Alcohol &amp; Other Drug Addictions</td>
<td>KINE 1316  Physical Activity Course</td>
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<td>CMSW 1309  Problems of Children and Adolescents</td>
<td>ELCT 1316  POFI/POFT Internship Selection</td>
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**Total Hours** 66

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*ACNT 1325 or ACCT 2301.

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## Administrative Support (OTAS)
### 520401
#### Certificate of Completion

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<th>First Semester</th>
<th>Credit</th>
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<tbody>
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| Total Hours     | 49     |

*ACNT 1325 or ACCT 2301.

## Office Assistant (OTOA)
### 520401
#### Certificate of Completion

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| Total Hours     | 33     |

## Office Management (OTOM)
### 520401
#### Associate of Applied Science Degree

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</tr>
<tr>
<td>POFI 1329</td>
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<td>POFI 1301</td>
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<td>BMGT 1327</td>
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<td>POFI 1309</td>
</tr>
<tr>
<td>KINE</td>
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<tbody>
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<table>
<thead>
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| Total Hours     | 54     |

*ACNT 1325, 1326 or ACCT 2301, 2302.
## Office Management (OTOM)
### 520401
#### Certificate of Completion

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<th>Credit</th>
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## Software Applications Specialist (OTSA)
### 520407
#### Certificate of Completion

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## Medical Transcription (OTMT)
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#### Certificate of Completion

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## Health Management Related
### Medical Office Specialist (OTMO)
### 510716
#### Certificate of Completion

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### Protective Services

The Protective Services Department follows the principles and guidelines of the Central Texas College mission, utilizing its resources to provide qualified individuals for local, state, national, and international public criminal justice agencies. Further, it assists students in making intelligent career choices and assists the field in providing qualified employees by guaranteeing the performance of its graduates.

## Criminal Justice (CJCJ)
### 430104
#### Associate of Applied Science Degree

<table>
<thead>
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<th>Semester</th>
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<th>Course Name</th>
<th>Credit</th>
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<td>Court Systems and Practices</td>
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<td>CJSA 1312/CRJ 1307</td>
<td>Crime in America</td>
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<td>ENGL 1301</td>
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<td>Fundamentals of Criminal Law</td>
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<td>Juvenile Justice System</td>
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<td>MATH 1332</td>
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Central Texas College C&I Campuses Catalog 2010-2011 - Programs of Study 49
## Criminal Justice Studies with Specialization
### 430104 Certificate of Completion

#### First Year (Core Courses)

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**Core Courses Total:** 15

#### Second Semester (Criminal Justice Corrections Specialization-CJCR)

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**Specialization Courses Total:** 15

**Certificate Total:** 30

## Fire Protection (FIPT)
### 430202 Certificate of Completion

(Offered at locations outside of Texas under Military Contract Obligation)

#### First Year (Core Courses)

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**Second Semester**

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**Second Year (Core Courses)**

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**Total Hours:** 67

*Appropriate Criminal Justice elective selection may substitute.*

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### Criminal Justice - Corrections Specialization (CJCR)

#### 430104 Associate of Applied Science Degree

#### First Year

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#### Second Year

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<td>CJS</td>
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**Total Hours:** 67

*Appropriate Criminal Justice elective selection may substitute.*
Second Semester
FIRT 1347 Industrial Fire Protection  3
FIRT 2331 Firefighting Strategies and Tactics II  3
FIRT 1349 Fire Administration II  3
SPCH 1321 Business and Professional Communication  3
ELCT Humanities/Fine Arts Selection  3
ELCT Computer Technology Skills  3
Total Hours  30

Fire Protection (FIPT)
430202
Certificate of Completion
(Offered at locations outside of Texas under Military Contract Obligation)

First Semester
FIRT 1301 Fundamentals of Fire Protection  3
FIRT 2309 Firefighting Strategies and Tactics I  3
FIRT 1338 Fire Protection Systems  3
FIRT 1309 Fire Administration I  3
FIRT 1315 Hazardous Materials I  3

Second Semester
FIRT 1307 Fire Prevention Codes and Inspections  3
FIRT 1303 Fire and Arson Investigation I  3
FIRT 2331 Firefighting Strategies and Tactics II  3
FIRT 1333 Fire Chemistry I  3
FIRT Technical Elective  3
Total Hours  30

Public Administration
This program is designed for individuals interested in entering the field of Emergency Management Planning and Homeland Security and additionally for those currently in an emergency response profession seeking to update or broaden their skills. The Associate of Applied Science degree and certificate will prepare students for decision making, problem solving, and skills to plan, implement, and coordinate resources necessary for preparedness, mitigation, response, and recovery from disasters. A number of the courses are pre-approved equivalents to courses offered by the Texas Department of Emergency Management and the Federal Management Agency.

Homeland Security and Emergency Management (HSEM)
440401
Associate of Applied Science Degree

First Year
First Semester
HMSY 1337 Introduction to Homeland Security  3
EMAP 1400 Principles of Basic Emergency Management  4
LGLA 1304 Military and National Security Legal Issues  3
ENGL 1301 Composition I  3
GOVT 2301 American Government I  3
KINE Physical Activity Course  1

Second Semester
ITSC 1409 Integrated Software Applications I  4
HMSY 1338 Homeland Security Emergency Communications Management  3
HMSY 1340 Homeland Security Intelligence Operations  3
HMSY 1341 Critical Infrastructure Protection  3
HMSY 1342 Understanding and Combating Terrorism  3

Second Year
First Semester
KINE Physical Activity Course  1
ELEC Humanities/Fine Arts Selection  3
MATH MATH 1332, 1342 or higher level  3
HMSY HMSY Elective  3
ELEC Social/Behavioral Science Selection  3
EMAP 2355 Disaster Recovery  3
or BMGT 1327 Principles of Management  3
HMSY 1339 Homeland Security Emergency Contingency Planning  3

Second Semester
EMAP 2300 Developing Volunteer Resources and Decision Making  3
EMAP 2301 Leadership and Effective Communication  3
EMAP 2302 Managing Mass Casualty and Fatality Incidents  3
HMSY 2337 Managing a Unified Incident Command  3
HMSY 1470 Final Project in Homeland Security and Emergency Management  3
or HMSY 2476 Internship  4
Total Hours  68

Homeland Security and Emergency Management (HSEM)
440401
Certificate of Completion

First Semester
HMSY 1337 Introduction to Homeland Security  3
EMAP 1400 Principles of Basic Emergency Management  4
LGLA 1304 Military and National Security Legal Issues  3
HMSY 1338 Homeland Security Emergency Communications Management  3
HMSY 1342 Understanding and Combating Terrorism  3

Second Semester
EMAP 2355 Disaster Recovery  3
or HMSY 1339 Homeland Security Emergency Contingency Planning  3
EMAP 2300 Developing Volunteer Resources and Decision Making  3
EMAP 2301 Leadership and Effective Communication  3
HMSY 2337 Managing a Unified Incident Command  3
HMSY 1470 Final Project in Homeland Security and Emergency Management  3
or HMSY 2476 Internship  4
Total Hours  32
Social Science

The Associate of Arts degree in Social Science is designed for the student wishing to pursue a Baccalaureate degree in one of the many liberal arts career fields. The Central Texas College curriculum is designed to maximize the transfer of lower level course work to the Baccalaureate degree granting public education institution within the State of Texas. The Associate of Arts in Social Science allows the student to choose instruction from a broad range of Social and Behavioral Science courses. This degree provides the foundation skills required of many diverse career fields from anthropology to sociology.

Social Science (SOCI) 450101

Associate of Arts Degree

Complete Core .......................................................... 42
Health/Wellness/ Kinesiology (KINE Activity Courses) .......... 3
Foreign Language (FREN, GERM, SPAN, JAPN) ............... 8
Social Science Specialization ....................................... 10
Total Hours .................................................................. 66

ANTH, ECON, GEOG, GOVT, HIST, PSYC, SOCI

Teaching

The Associate of Arts in Teaching degree is designed for the student wishing to transfer to a senior institution within the State of Texas to pursue Teaching Certification. The AAT curriculum is the foundation for most Bachelor level degrees.

Teaching Certification (TEAC) 131210

Associate of Arts in Teaching Degree

Complete Core (MATH 1414 is required) ....................... 42
Initial Texas Teacher Certification requirements:
EC-6 ........................................................................... 20
Natural Science Selection (BIOL, CHEM, PHYS, GEOL) .. 8
Mathematics (MATH-1350, MATH-1351) .................... 6
Education (EDUC-1301, EDUC-2301) ....................... 6
Total Hours ................................................................. 60

Welding Technology

This program is designed for students desiring to prepare themselves for a welding career. The program provides entry-level, industry-validated, “hands-on” instruction using current technologies and equipment. Studies include welding safety, tools and equipment, machine setup and operation, gas welding and cutting, plasma cutting, shielded metal arc welding, electrode identification and use, MIG welding, TIG welding, pipe welding, blueprint reading, weld testing, and welding fabrication. Welding positions 1G through 4G are covered in plate welding and positions 1G through 6G are covered in pipe welding. E6010 and E7018 electrodes are used. AWS Certification is available through the program.

Welding (WLDG) 480508

Associate of Applied Science Degree

First Year

<table>
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<tr>
<th>First Semester</th>
<th>Credit</th>
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<tr>
<td>WLDG 1323</td>
<td>Welding Safety Tools and Equipment 3</td>
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<td>WLDG 1425</td>
<td>Introduction to Oxy-Fuel Welding and Cutting 4</td>
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<td>WLDG 1428</td>
<td>Introduction to Shielded Metal Arc Welding (SMAW) 4</td>
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<td>MATH 1332</td>
<td>Contemporary Mathematics 3</td>
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Second Semester

| WLDG 1457 | Intermediate Shielded Metal Arc Welding (SMAW) 4 |
| WLDG 2443 | Advanced Shielded Metal Arc Welding (SMAW) 4 |
| WLDG 1313 | Introduction to Blueprint Reading for Welders 3 |
| ENGL 1301 | Composition I 3 |
| KINE | Physical Activity Course 1 |

Second Year

First Semester

| WLDG 1430 | Introduction to Gas Metal Arc (GMAW) Welding 4 |
| WLDG 1435 | Introduction to Pipe Welding 4 |
| WLDG 1434 | Introduction to Gas Tungsten Arc (GTAW) Welding 4 |
| WLDG 1417 | Introduction to Layout and Fabrication 4 |
| ELCT | Computer Technology Skills 3 |
| GOVT | GOVT 2301 or 2302 3 |

Second Semester

| WLDG 2453 | Advanced Pipe Welding 4 |
| SPCH | SPCH 1315 or 1321 3 |
| WLDG 2447 | Advanced Gas Metal Arc (GMAW) Welding 4 |
| ELCT | Humanities/Fine Arts Selection 3 |
| WLDG 2435 | Advanced Layout and Fabrication 4 |
| or | |
| WLDG 2488 | Internship 72 |

Total Hours
### Welding Technology (WLDG)
#### 480508
**Certificate of Completion**

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**Total Hours** 58

### Fitter (WLFC)
#### 480508
**Certificate of Completion**

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**Total Hours** 38

### Welder (WLDG)
#### 480508
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**Total Hours** 38

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**Total Hours** 34
ABDR Autobody Repair

ABDR 1419 Basic Metal Repair  2-7-4
In-depth coverage of basic metal principles and working techniques including proper tool usage and product application.

ABDR 1431 Basic Refinishing  2-6-4
An introduction to current refinishing products, shop safety, and equipment used in the automotive refinishing industry. Emphasis on surface preparation, masking techniques, and refinishing of trim and replacement parts. Prerequisite: ABDR 1419.

ABDR 1441 Structural Analysis and Damage Repair I  2-7-4
Expanded training in the roughing and shaping procedures on automotive sheet metal necessary to make satisfactory body repairs. Emphasis on the alignment of component parts such as doors, hood, front-end assemblies, and deck lids. Prerequisites: ABDR 1419 and 2447.

ABDR 1442 Structural Analysis and Damage Repair II (C&I Locations only)  3-3-4
Continuation of general repair and replacement procedures for damaged structural parts and collision damage. Prerequisites: ABDR 1419, 1441, and 2447.

ABDR 1449 Automotive Plastic and Sheet Molded Compound Repair  2-6-4
A comprehensive course in repair of interior and exterior plastics including the use of various types of adhesives and plastic welding. Prerequisite: ABDR 1419.

ABDR 1472 Auto Body Glass, Hardware & Trim  2-7-4
This course is designed to provide the student with instruction in the removal, replacement, and service of both stationary and moveable automotive glass as well as related interior and exterior hardware such as manual and power lock mechanisms and regulators. The removal and replacement/repair of exterior and interior trim is also covered. Prerequisite: ABDR 1419.

ABDR 2402 Auto Body Mechanical and Electrical Service (C&I Locations only)  2-7-4
A course in the repair, replacement, and/or service of collision damaged mechanical or electrical systems. Topics include drive train removal, reinstallation and service; cooling system service and repair; exhaust system service; and emission control systems. Additional topics include wire and connector repair, reading wiring diagrams, and troubleshooting. Prerequisite: ABDR 1419.

ABDR 2435 Structural Analysis and Damage Repair IV (C&I Locations only)  2-6-4
Extension of Structural Analysis and Damage Repair III providing skill development in the auto body application of theories to the repair and replacement of complete body units. Prerequisites: ABDR 1419, 1442 and 2447.

ABDR 2437 Structural Analysis and Damage Repair V (C&I Locations only)  2-7-4
Advanced development in the operation of equipment and the procedures involved in the repair of body structures. Special emphasis on conducting a thorough damage analysis as well as demonstrating proper pulling and anchoring techniques. Prerequisites: ABDR 1419, 2447, and 2435.

ABDR 2447 Advanced Auto Body Welding  2-7-4
This course is designed to provide the student with instruction in the use of those gas and electrical welding and cutting processes required in Auto Collision Repair. Basic gas welding and cutting, GMAW (MIG), resistance spot welding, and plasma arc cutting will be covered. Emphasis will be placed on safety; equipment selection and set up; the design, preparation, and fitting of weld joints; and the application of correct welding procedures to specific repair requirements. Prerequisite: ABDR 1419.

ABDR 2449 Advanced Refinishing  2-7-4

ABDR 2488 Internship–Autobody/Collision and Repair Technology/Technician  0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and employer. Prerequisite: Department approval required.

ACCT Accounting

ACCT 2301 Principles of Financial Accounting  3-0-3
An introduction to accounting concepts and their application in transaction analysis and financial statement preparation; analysis of financial statements; and asset, liability, and equity accounting in proprietorships, partnerships, and corporations.

ACCT 2302 Principles of Managerial Accounting  3-0-3
An introduction to the use of accounting information as an aid to management decision making. Topics include the statement of cash flows, financial analysis, cost behavior, budgeting, responsibility accounting, cost control, and product costing. Prerequisite: ACCT 2301.

ACNT Accounting

ACNT 1311 Introduction to Computerized Accounting  2-4-3
Introduction to utilizing the computer in maintaining accounting records, making management decisions, and processing common business applications with primary emphasis on a general ledger package. Prerequisites: ACNT 1325 or equivalent recommended.

ACNT 1325 Principles of Accounting I  2-4-3

ACNT 1326 Principles of Accounting II  2-4-3
A study of the fundamentals of managerial accounting. Emphasis on budgeting, planning, management decision making, and analysis of financial reports. Prerequisites: ACNT 1325 or equivalent recommended.

ACNT 1331 Federal Income Tax: Individual  3-0-3
Laws currently implemented by the IRS for preparing taxes for the individual.
AERM 1203 Shop Practices-G 2-2-2
An introduction to the correct use of hand tools and equipment and precision measurement; identification of aircraft hardware; and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.

AERM 1205 Weight and Balance-G 2-2-2
An introduction to Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight and balance calculations, and appropriate maintenance record entries.

AERM 1208 Federal Aviation Regulations-G 2-2-2
A course in the use and understanding of the Federal Aviation Administration and aircraft manufacturers’ publications, forms, and records; and the exercise of mechanic privileges within prescribed limitations.

AERM 1210 Ground Operations-G 2-2-2
An introductory course in fuels, servicing methods and procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

AERM 1243 Instruments and Navigation/Communications-G 2-1-2
A study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations.

AERM 1254 Aircraft Composites-A 2-2-2
A study of the inspection and repair of composite, fiberglass, honeycomb, and laminated structural materials including doors, windows, bonded structures, and interior furnishings.

AERM 1314 Basic Electricity-G 2-4-3
A study of aircraft electrical systems and their requirements including the use of ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions.

AERM 1340 Aircraft Propellers-P 2-4-3

AERM 1357 Fuel Metering & Induction System-P 2-4-3
A study of fuel metering and induction systems used on reciprocating and turbine engines including fuel metering systems, carburetors, induction systems, heat exchangers, and cooling systems.

AERM 1444 Aircraft Reciprocating Engines-P 3-4-4
A study of reciprocating engines and their development, operating principles, and theory. Instruction in engine instruments, lubricating, and exhaust systems.

AERM 1445 Airframe Electrical Systems-A 3-4-4
A study of airframe electrical systems including installation, removal, disassembly, and repair of electrical components and related wiring.

AERM 1449 Hydraulic, Pneumatic, and Fuel Systems-A 3-4-4
Skill development in inspecting, servicing, and maintaining aircraft fluid systems including hydraulics, pneumatics, and fuel. Application of basic concepts through detailed maintenance procedures.

AERM 1452 Aircraft Sheet Metal-A 2-6-4
A course in inspection and repair of sheet metal structures including forming, lay out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners.

AERM 1456 Aircraft Powerplant Electrical 3-4-4
Theory, operation, and maintenance of powerplants including electrical, ignition, starting, and fire protection systems.

AERM 2231 Airframe Inspection-A 2-2-2
A study of the materials and procedures for completing a One Hundred Hour Inspection as per Federal Aviation Regulations and manufacturers’ service information.

AERM 2341 Power Plant and Auxiliary Power Units-P 2-3-3
General principles of auxiliary power unit (APU) and powerplant systems and components.

AERM 2351 Aircraft Turbine Engine Overhaul-P 2-4-3
Topics address inspection, disassembly, reassembly, and replacement of gas turbine engines, sections, and components and operational troubleshooting and analysis.

AERM 2370 A&P Mechanic General Course 3-0-3
A course intended to prepare experienced aircraft mechanics to successfully complete the written, oral and practical exams for certification by the Federal Aviation Administration as an Airframe Maintenance Technician. In-depth coverage of topics pertaining to Airframe certification to include inspection, fabrication and repair of aircraft structures and components; application of aircraft finishes; sheet metal and composite structures; fuel systems; instrumentation; hydraulics; pneumatics and airframe electrical systems.

AERM 2371 Aircraft Airframe Course 3-0-3
A course intended to prepare experienced aircraft mechanics to successfully complete the written, oral and practical exams for certification by the Federal Aviation Administration as an Airframe Maintenance Technician. An in-depth coverage of topics pertaining to Airframe certification to include inspection, fabrication and repair of aircraft structures and components; application of aircraft finishes; sheet metal and composite structures; fuel systems; instrumentation; hydraulics; pneumatics and airframe electrical systems.

AERM 2372 Aircraft Power Plants and Systems 3-0-3
A course intended to prepare experienced aircraft mechanics to successfully complete the written, oral and practical exams for certification by the Federal Aviation Administration as a Powerplant Maintenance Technician. An in-depth coverage of topics pertaining to Power plant certification to include proper technique and procedures for maintaining, servicing, overhaul and inspections of both reciprocating and turbine engines. Other subjects to be covered include engine electrical, fuel, oil, cooling and propeller subsystems.
ANTH Anthropology

ANTH 2301 Physical Anthropology 3-0-3
Principles of physical anthropology, human evolution, race, heredity, the organic basis of culture, and cultural history through the Paleolithic stage.

ANTH 2302 Introduction to Archeology 3-0-3
Overview of human origins and biocultural adaptations. Introduces methods and theory in the excavation and interpretation of material remains of past cultures.

ANTH 2346 General Anthropology 3-0-3
Study of human beings, their antecedents and related primates, and their cultural behavior and institutions. Introduces the major sub-fields: physical and cultural anthropology, archeology, linguistics, and ethnology.

ANTH 2351 Cultural Anthropology 3-0-3
Study of human behavior (nations and societies) the world over, comparing and describing their cultural patterns. An introduction to the various theories and anthropologists is reviewed as well as the relationship of Cultural Anthropology to the other social sciences (Psychology, Sociology, History, etc.).

ARAB Arabic

ARAB 1311 Beginning Arabic I 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

ARAB 1312 Beginning Arabic II 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Prerequisite: ARAB 1311 with a grade of “C” or above.

ARAB 1411 Beginning Arabic I 3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

ARAB 1412 Beginning Arabic II 3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: ARAB 1411 with a grade of “C” or above.

ARAB 2311 Intermediate Arabic I 3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisites: ARAB 1411 and ARAB 1412 with a grade of “C” or above.

ARAB 2312 Intermediate Arabic II 3-0-3
This course continues reading, drill on syntax as needed for reading, composition, and conversation. Prerequisite: ARAB 2311 with a grade of “C” or above.

ARCE Computer Aided Drafting and Design see also DFTG

ARCE 1452 Structural Drafting 3-3-4
A study of structural systems including concrete foundations and frames, wood framing and trusses, and structural steel framing systems. Includes detailing of concrete, wood, and steel to meet industry standards including the American Institute of Steel Construction and The American Concrete Institute. Prerequisite: Sophomore standing in the drafting program.

ARTS Arts

ARTS 1303 Art History I 3-0-3
This course is a survey of the major and minor arts from prehistoric times to the 14th century. Prerequisite: None

ARTS 1304 Art History II 3-0-3
This course is a survey of the major and minor arts from the 14th century to the present. Prerequisite: None.

AUMT Automotive Service and Repair

AUMT 1405 Introduction to Automotive Technology 3-3-4
An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance.

AUMT 1407 Automotive Electrical Systems 2-7-4
An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of batteries, charging and starting systems, and electrical accessories. Emphasis on electrical schematic diagrams and service manuals. Prerequisites: AUMT 1405 and 2305.

AUMT 1410 Automotive Brake Systems 2-6-4
Operation and repair of drum/disc type brake systems. Emphasis on safe use of modern equipment. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. Prerequisite: AUMT 1405.

AUMT 1416 Automotive Suspension and Steering Systems 2-6-4
A study of automotive suspension and steering systems including tire and wheel problem diagnosis, component repair, and alignment procedures. Prerequisite: AUMT 1405.

AUMT 1419 Automotive Engine Repair 3-3-4
Fundamentals of engine operation, diagnosis and repair including lubrication systems and cooling systems. Emphasis on overhaul of selected engines, identification and inspection, measurements, and disassembly, repair, and reassembly of the engine. Prerequisites: AUMT 1405, 2305 and 2434.

AUMT 1445 Automotive Heating and Air Conditioning 2-6-4
Theory of automotive air conditioning and heating systems. Emphasis on the basic refrigeration cycle and diagnosis and repair of system malfunctions. Covers EPA guidelines for refrigerant handling and new refrigerant replacements. Prerequisites: AUMT 1405, 1407, 1472 and 2437.

AUMT 1472 Automotive Computer Systems 2-7-4
This course provides the student with a working knowledge of automotive computer systems. It includes principles of operation, components and function, tools and test equipment, diagnosis, and service and repair of automotive computerized systems. Prerequisites: AUMT 1405, 1407, 2417 and 2437.

AUMT 2305 Automotive Engine Theory 2-2-3
Fundamentals of engine operation and diagnosis including lubrication and cooling systems. Emphasis on identification of components, measurements, inspections, and repair methods. Prerequisite: AUMT 1405.

AUMT 2413 Automotive Drive Train and Axles 2-6-4
A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on the diagnosis and repair of transmissions/ transaxles and drive lines. May be taught with manufacturer specific instructions. Prerequisite: AUMT 1405.
AUMT 2417 Automotive Engine Performance
Analysis I  2-7-4
Theory, operation, diagnosis, and repair of basic engine
dynamics, ignition systems, and fuel delivery systems. Use
of basic engine performance diagnostic equipment. May be
taught with manufacturer specific instructions. Prerequisites:
AUMT 1405, AUMT 1407, AUMT 2305, and AUMT 2437.

AUMT 2425 Automotive Automatic Transmission
and Transaxle  2-6-4
A study of the operation, hydraulic principles, and related
circuits of modern automatic transmissions and automatic
transaxles. Diagnosis, disassembly, and assembly procedures
with emphasis on the use of special tools and proper repair
techniques. May be taught with manufacturer specific
instructions. Prerequisite: AUMT 2413.

AUMT 2434 Automotive Engine Performance
Analysis II  2-7-4
A study of diagnosis and repair of emission systems,
computerized engine performance systems, and advanced
ignition and fuel systems; and proper use of advanced engine
performance diagnostic equipment. Prerequisites: AUMT
1407, 1471, 1472, 2305, and 2437.

AUMT 2437 Automotive Electronics  3-3-4
Topics address electrical principles, semiconductor and
integrated circuits, digital fundamentals, microcomputer
systems, and electrical test equipment as applied to automotive
technology. Prerequisites: AUMT 1405 and 1407.

AUMT 2488 Internship - Automobile/Automotive
Mechanics Technology/Technician  0-19-4
A work-based learning experience that enables the student to
apply specialized occupational theory, skills and concepts.
A learning plan is developed by the college and employer.
Prerequisite: Department approval required.

BCIS Computer Science  see also COSC
BCIS 1405 Business Computer Applications  3-3-4
Computer terminology, hardware, software, operating systems,
and information systems relating to the business environment.
The main focus of this course is on business applications of
software, including word processing, spreadsheets, databases,
presentation graphics, and business-oriented utilization of the
internet. Prerequisite: None.

BIOL Biology
BIOL 1308 Biology for Non Science Majors I  3-0-3
A study of selected topics of biological science for the non-
science major. Topics include the cell concept, systems of the
human body, aging, and introduction to genetics, evolution,
and ecology.

BIOL 1322 Nutrition and Diet Therapy I  3-0-3
A study of the essential nutrients, including nutrient functions,
food source, deficiency symptoms, and toxicity symptoms;
the nutritional requirements throughout life; the effects of
nutrition on health and fitness; nutrition fads and controversies;
and evaluation of personal eating habits. Prerequisite: One
semester of chemistry is recommended.

BIOL 1406 Biology for Science Majors I  3-3-4
Study of the fundamental principles of living organisms
at the cellular level. Includes cell structure and function,
photosynthesis/cellular respiration, mitosis/meiosis, DNA,
Mendelian and modern genetics, bacterial structure and gene
control. Prerequisite: Test score of 240 on both math and
reading sections of the THEA exam or equivalent. No students
are exempt from testing. Co-requisite: BIOM 1406.

BIOL 1407 Biology for Science Majors II  3-3-4
Aspects of systematics, survey of plant kingdom (structure/
functioning/life cycles), survey of the animal kingdom,
structure and functioning of animal systems, and aspects of
ecology. Prerequisite: Test score of 240 on both math and
reading sections of the THEA exam or equivalent. No students
are exempt from testing. Co-requisite: BIXO 1407.

BIOL 1411 General Botany  3-3-4
The study of structure and function of plant cells, tissues, and
organs with emphasis on angiosperms. An evolutionary survey
of the following representative groups: algae, fungi, mosses,
ferns, and seed plants (angiosperms and gymnosperms).
Lecture and laboratory aspects are integrated. Co-requisite:
BIXO 1411. Completion of BIOL 1406 is recommended prior
to enrollment in this course.

BIOL 1413 General Zoology  3-3-4
A survey of important invertebrate and vertebrate groups of
the animal kingdom emphasizing relevant biological concepts.
Includes laboratory experiments and dissections; lifestyles,
structures, and classification of protozoa, sponges, jellyfish,
worms, molluscs, arthropods, echinoderms, and vertebrates.
Co-requisite: BIXO 1413. Completion of BIOL 1406 is
recommended. Completion of a college level science course is
recommended.

BIOL 2401 Anatomy and Physiology I  3-3-4
Study of the structure and function of the human body. Main
systems covered include: skeletal system, muscular system,
integumentary system, immune system, digestive system,
urinary system, lymphatic system, and reproductive system.
Co-requisite: BIXO 2401. Completion of BIOL 1406 is
recommended.

BIOL 2402 Anatomy and Physiology II  3-3-4
Study of the structure and function of the human body.
Emphasis is on the function of body systems and interactions
among body systems with emphasis on cardiovascular,
respiratory, nervous, and endocrine systems. Integration
of body systems is emphasized. Problem solving and
interpretation of biomedical research is also stressed.
Prerequisite: BIXO 2401. Co-requisite: BIXO 2402.

BIOL 2421 Microbiology for Science Majors  3-3-4
Fundamental principles of microbiology. Includes study
of morphology, physiology, and classification of microbes
and their relationships with soil, food, water, disease, and
immunology. Designed for nursing and all allied health-related
majors. Prerequisite BIOL 1406 with a grade of “C” or above,
must have been taken within the last 5 years. Co-requisite:
BIXO 2421.

BMGT Business Administration and
Management  see also BUSG, HRPO and MRKG
BMGT 1301 Supervision  3-0-3
A study of the role of the supervisor. Managerial functions as
applied to leadership, counseling, motivation, and human skills
are examined.

BMGT 1325 Office Management  3-0-3
Systems, procedures, and practices related to organizing and
planning office work, controlling employees’ performance, and
exercising leadership skills.

BMGT 1327 Principles of Management  3-0-3
Concepts, terminology, principles, theory, and issues that are in
the field of management.
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<td>Management Applications II</td>
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<tr>
<td>BMGT 2488</td>
<td>Internship - Business Administration and Management, General</td>
<td>0-19-4</td>
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<td>Internship - Business Administration and Management, General</td>
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<tr>
<td>BUSG 1315</td>
<td>Small Business Operations</td>
<td>3-0-3</td>
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<td>BUSG 1370</td>
<td>Small Business Accounting</td>
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<tr>
<td>BUSG 1371</td>
<td>Entrepreneurship and Business Plan Development</td>
<td>3-0-3</td>
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<tr>
<td>BUSG 1372</td>
<td>Financial Management of Personal Accounts</td>
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<td>BUSG 2305</td>
<td>Business Law/Contracts</td>
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<td>BUSG 2309</td>
<td>Small Business Management</td>
<td>3-0-3</td>
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<tr>
<td>BUSI 1301</td>
<td>Business Principles</td>
<td>3-0-3</td>
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<tr>
<td>BUSI 1311</td>
<td>Salesmanship</td>
<td>3-0-3</td>
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<tr>
<td>BUSI 2301</td>
<td>Business Law</td>
<td>3-0-3</td>
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<tr>
<td>CBFM 1334</td>
<td>Interior and Exterior Painting and Refinishing</td>
<td>2-4-3</td>
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<tr>
<td>CBFM 2487</td>
<td>Internship-Building/Property Maintenance and Manager</td>
<td>0-19-4</td>
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<tr>
<td>CDEC 1170</td>
<td>Deployment and Military Families (Europe only)</td>
<td>1-0-1</td>
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<tr>
<td>CDEC 1171</td>
<td>American Sign Language (Europe only)</td>
<td>1-0-1</td>
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</tbody>
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- **BMGT** Business Administration and Management
- **BUSI** Business Administration
- **BUSG** Business Administration and Management
- **CBFM** Maintenance Technology
- **CDEC** Early Childhood Professions

**Notes:**
- BMGT courses are offered in Central Texas College on a credit basis.
- BUSI 1301 covers the role of business in modern society.
- BUSI 1311 focuses on salesmanship.
- BUSI 2301 covers principles of business law.
- CBFM courses are designed for students interested in interior and exterior painting and refinishing.
- CDEC courses are designed for students interested in early childhood professions.

**Prerequisites:**
- BUSI 1301 requires consent of the Department Chair.
- BUSI 1311 requires consent of the Department Chair.
- BUSI 2301 requires consent of the Department Chair.

**Course Descriptions:**
- **Management Applications I**
- **Management Applications II**
- **Internship - Business Administration and Management**
- **Small Business Operations**
- **Small Business Accounting**
- **Entrepreneurship and Business Plan Development**
- **Financial Management of Personal Accounts**
- **Business Law/Contracts**
- **Small Business Management**
- **Business Principles**
- **Salesmanship**
- **Business Law**
- **Interior and Exterior Painting and Refinishing**
- **Internship-Building/Property Maintenance and Manager**
- **Deployment and Military Families (Europe only)**
- **American Sign Language (Europe only)**
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Credit Hours</th>
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<tr>
<td>CDEC 1172</td>
<td>Mentoring for Early Childhood Educators (Europe)</td>
<td>1-0-1</td>
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<td>This course covers an in-depth look at early childhood mentoring, an important professional facet of a teacher’s development. Students will explore what it means to be a mentor and work directly with new people entering into the early childhood field. This is a practical course designed to teach skills to new and experienced mentors in Early Childhood Education.</td>
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| CDEC 1173   | Parenting for Healthy Families (Europe)          | 1-0-1|              |
|             | This course covers different models of parenting, and includes identification and reflection, of one’s chosen style of parenting. The effects of parenting methods on children as well as a model of parenting that is correlated with healthy children will be presented and taught. |

| CDEC 1174   | Technology in the Classroom (Europe)             | 1-0-1|              |
|             | This course is designed to teach the specific use of technology in the classroom, including preschool management software, recording children’s work, and current software available for brochures, flyers, etc., that will be used commonly for preschool/school settings. Recommended for the student who has completed 3 credit hours of computer studies. |

| CDEC 1195   | Special Topics in Child Care Provider/Assistant | 1-0-1|              |
|             | Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course has different topics and may be repeated. |

| CDEC 1303   | Families, School and Community                  | 2-2-3|              |
|             | A study of the relationship between the child, the family, the community, and early childhood educators, including a study of parent education, family and community lifestyles, multicultural instruction, child abuse, and current issues. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1311   | Educating Young Children                        | 2-2-3|              |
|             | An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, and current issues. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1313   | Curriculum Resources for Early Childhood Programs | 2-2-3|              |
|             | Fundamentals of curriculum design and implementation in developmentally appropriate programs for young children. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1317   | Child Development Associate Training I           | 2-2-3|              |
|             | Based on the requirements for the Child Development Associate (CDA) National Credential. Three of the 13 functional areas of study include family, program management and professionalism. Topics on CDA overview, general observation skills, and child growth and development overview. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1318   | Wellness of the Young Child                     | 2-2-3|              |
|             | A study of nutrition, health, safety, and related activities, including skill development in management of issues, guidelines, and practices in nutrition, as well as community health, hygiene, safety, and legal implications. Integration of these principles apply to a variety of settings. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1319   | Child Guidance                                  | 2-2-3|              |
|             | An exploration of common behavior problems of young children in an early childhood setting. Emphasis on positive guidance techniques for effective behavior management. Practical application through direct participation in an early childhood setting. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1321   | The Infant and Toddler                          | 2-2-3|              |
|             | A study of appropriate infant and toddler (birth to 3 years) programs, including an overview of development, quality caregiving routines, appropriate environments, materials and activities, and teaching/guidance techniques. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1335   | Early Childhood Development: 3-5 Years          | 2-2-3|              |
|             | This course covers the principles of normal growth and development from three to five years. Emphasis is on physical, emotional, and social development. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools. |

| CDEC 1354   | Child Growth & Development                      | 2-2-3|              |
|             | A study of the principles of normal child growth and development from conception to adolescence. Focus on physical, cognitive, social, and emotional domains of development. |
CDEC 1356 Emergent Literacy for Early Childhood 2-2-3
An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based, integrated curriculum. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 1358 Creative Arts for Early Childhood 2-2-3
An exploration of principles, methods, and materials for teaching young children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 1359 Children with Special Needs 2-2-3
A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, educational intervention, available resources, referral processes, and the advocacy role and legislative issues. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 1371 Physical Development and Disorder in Children 2-2-3
This course is designed for the paraprofessional working in integrated early childhood settings. Roles and responsibility of the paraprofessional, including IEP and ISFP lesson plan teaching strategies, and hands-on training in physical management and care skills of the child with special needs are emphasized. Instruction in basic sign language, and an overview of current learning technologies to assist the child with disabilities, is included. Emphasis is placed on methods and materials for promoting activities of daily living. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 1391 Special Topics in Family Life and Relations Studies 2-2-3
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. The focus is on setting up a FDCH and activities for children. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 1393 Special Topics in Early Childhood Education and Teaching 2-2-3
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2307 Math & Science for Early Childhood 2-2-3
An exploration of principles, methods, and materials for teaching young children math and science concepts through discovery and play. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2322 Child Development Associate Training II 2-2-3
A continuation of the study of the requirements for the Child Development Associate (CDA) National Credential. The six functional areas of study include safety, health, learning environment, self, social, and guidance. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2324 Child Development Associate Training III 2-2-3
A continuation of the study of the requirements for the Child Development Associate (CDA) National Credential. The four functional areas of study are creative, cognitive, physical, and communication. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2326 Administration of Programs for Children I 2-2-3
A practical application of management procedures for early care and education programs, including a study of operating, supervising, and evaluating programs. Topics on philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2328 Administration of Programs for Children II 2-2-3
An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2340 Instructional Techniques for Children with Special Needs 2-2-3
Exploration of development and implementation of curriculum for children with special needs. The focus is on how to adapt curriculum activities for children with special needs. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.
CDEC 2341 The School Age Child 2-2-3
A study of appropriate age (5 to 13 years) programs, including an overview of development, appropriate environments, materials and activities, and teaching/guidance techniques. All Early Childhood Professions courses have a requirement for 34 hours of lab except CDEC 1195 which has no lab and CDEC 2384 which has 225 hours of lab. Interaction with children is related to program outcomes. Some labs require observations in childcare facilities and schools.

CDEC 2384 Cooperative Education in Child Development 1-14-3
Career-related activities encountered in the student’s area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. Includes a lecture component.

CETT Computer Electronics Technology see also CPMT, EECT, ELMT, ITCC and ITNW

CETT 1403 DC Circuits 3-3-4
A study of the fundamentals of direct current including Ohm’s law, Kirchoff’s laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements.

CETT 1405 AC Circuits 3-3-4
A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. Prerequisite: CETT 1403.

CETT 1421 Electronics Fabrication 3-3-4
A study of electronic circuit fabrication techniques including printed circuit boards, wire wrapping, bread boarding, and various soldering techniques.

CETT 1425 Digital Fundamentals 3-3-4
An entry level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combinational logic. Emphasis on circuit logic analysis and troubleshooting digital circuits.

CETT 1429 Solid State Devices 3-3-4
A study of diodes and bipolar semiconductor devices, including analysis of static and dynamic characteristics, bi techniques, and thermal considerations of solid state devices. Prerequisite: CETT 1405.

CETT 1441 Solid State Circuits 3-3-4
A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis. Prerequisite: CETT 1429.

CETT 1449 Digital Systems 3-3-4
A course in electronics covering digital systems. Emphasis on application and troubleshooting digital systems using counters, registers, code converters, multiplexers, analog-to-digital to-analog circuits, and large-scale integrated circuits. Prerequisites CETT 1425 and CETT 1429.

CETT 1491 Special Topics in Computer Engineering Technology/Technician 3-3-4
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Prerequisites CETT 1429 and CETT 1449.

CETT 1509 DC-AC Circuits 4-3-5
Fundamentals of DC circuits and AC circuits operation including Ohm’s law, Kirchoff’s laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

CETT 2445 Color Television Repair 3-3-4
An advanced study of television theory and basic repair including television receiver tuning system, remote control, I-F amplifiers, automatic gain control and video amplifiers, television power supplies, and deflection circuits. Prerequisite CETT 1425 and CETT 1429.

CETT 2449 Research and Project Design 3-3-4
Principles of electrical/electronic design encompassing schematics wiring diagrams, materials lists, operating characteristics, completion schedules, and cost estimates. Prerequisites: CETT 1429 and CETT 1449.

CETT 2489 Internship-Computer Engineering Technology/Technician 0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Department approval required.

CHEF Hospitality Management see also HAMG, IFWA, PSTR, RSTO and TRVM

CHEF 1301 Basic Food Preparation 1-8-3
A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. National Restaurant Association (NRA) Food Production Certificate Examination.

CHEF 1305 Sanitation and Safety 3-0-3
A study of personal cleanliness; sanitary practices in food preparation; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards.

CHEF 1341 American Regional Cuisine 2-4-3
A study of the development of regional cuisine in the United States with emphasis on the similarities in production and service systems. Application of skills to develop, organize, and build a portfolio of recipe strategies and production systems. Prerequisite: CHEF 1301.

CHEF 1345 International Cuisine 2-4-3
The study of classical cooking skills associated with the preparation and service of international and ethnic cuisine. Topics include similarities between food production systems used in the United States and other regions of the world. Prerequisite: CHEF 1301.

CHEF 1410 Garde Manger 2-6-4
A study of specialty foods and garnishes. Emphasis on design, techniques, and display of fine foods. Prerequisite: CHEF 1301.
CHEF 2301 Intermediate Food Preparation 1-8-3
Continuation of previous food preparation course. Topics include the concept of pre-cooked food items, as well as scratch preparation. Covers full range of food preparation techniques. Prerequisite: CHEF 1301.

CHEF 2302 Saucier 2-3-3
Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the pairing of sauces with a variety of foods. Prerequisite: CHEF 1301.

CHEF 2332 Buffet Theory and Production 2-4-3
Advanced concepts in the construction of edible display items. Emphasis on buffet production, presentation, and service. The student will produce tallow, butter, and ice sculptures, and organize a buffet layout. Prerequisite: CHEF 1301.

CHEM Chemistry

CHEM 1406 Introductory Chemistry I 3-3-4
This course is a survey of the fundamentals of general chemistry with applications from medicine, modern living, agriculture, and the environment. This course is designed for non-science majors who need a lab science credit, for nursing students seeking a B.S. degree or background for physiology, and also for students who have very little or no chemical background. Prerequisite: minimum math THEA score of 230 or completion of DSMA 0301, Developmental Mathematics II. Co-requisite: CHEX 1406.

CHEM 1407 Introductory Chemistry II 3-3-4
A survey of the fundamentals of organic and biochemistry for nursing students interested in the processes of life. Basic principles, nomenclature, principal reactions and methods of synthesis, and the major classes of physiologically important compounds are studied. Prerequisite: CHEM 1406, or CHEM 1411. Co-requisite: CHEX 1407.

CHEM 1411 General Chemistry I 3-4-4
The first of two courses for science-related majors, this course is a study of the fundamental theories and laws of chemistry, chemical nomenclature, metals and non-metals and their compounds, states of matter, solutions, and the quantum theory of structure. Emphasis is placed on problem solving. Prerequisite: MATH 1414 or consent of the Department Chair. Co-requisite: CHEX 1411.

CHEM 1412 General Chemistry II 3-4-4
The second of two courses for science-related majors, this course covers kinetics, chemical equilibrium, acid-base concepts, electrochemistry, elementary thermodynamics, and introduction to nuclear chemistry. Prerequisite: CHEM 1411. Co-requisite: CHEX 1412.

CHEM 2423 Organic Chemistry I 3-4-4
The first of two courses designed to provide a foundation in organic chemistry, a study of the chemistry of carbon and its compounds. The course is a study of structural theory, functional groups, nomenclature, stereochemistry, reaction mechanisms, synthesis, and properties of organic compounds. This course is designed for both science majors and minors. Prerequisites: CHEM 1411 and CHEM 1412. Co-requisite: CHEX 2423.

CHEM 2425 Organic Chemistry II 3-4-4
As a continuation of CHEM 2423 this course involves a more in-depth study of the topics covered in CHEM 2423 in addition to the study of aliphatic and aromatic compounds and spectroscopic analysis concepts. Designed for both science majors and minors. Prerequisite: CHEM 2423. Co-requisite: CHEX 2425.

CHIN Chinese

CHIN 1311 Beginning Chinese I 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

CHIN 1312 Beginning Chinese II 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Prerequisite: CHIN 1311 with a grade of “C” or above.

CHIN 1411 Beginning Chinese I 3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

CHIN 1412 Beginning Chinese II 3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: CHIN 1411 with a grade of “C” or above.

CHIN 2311 Intermediate Chinese I 3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisite: CHIN 1411 and 1412 with a grade of “C” or above.

CHIN 2312 Intermediate Chinese II 3-0-3
This course continues reading, drill on syntax as needed for reading, composition, and conversation. Prerequisite: CHIN 2311 with a grade of “C” or above.

CHLT Mental Health Services See also CMSW, DAAC, GERS, PSYT and SCWK

CHLT 1309 Community Ethics 3-0-3
This course will include discussions on the role of ethics as it pertains to health care and community settings. It will include ethical decision-making, teamwork and the impact of illness on the individual and the social setting. Professional ethical and legal conduct in human services will be explored.

CJCR Criminal Justice See also CJLE, CJSJA and SLPS

CJCR 1304 Probation and Parole 3-0-3
A survey of the structure, organization, and operation of probation and parole services. Emphasis on applicable state statutes and administrative guidelines.

CJCR 1307 Correctional Systems and Practices 3-0-3
Corrections in the criminal justice system; organization of correctional systems; correctional role; institutional operations; alternatives to institutionalization; treatment and rehabilitation; current and future issues.

CJCR 1358 Rights of Prisoners 3-0-3
Analysis of the legal rights of the convicted offender incarcerated in state and federal penal institutions. Emphasis on constitutional principles, case law, and federal and state statutes concerning prisoner rights.

CJCR 1391 Special Topics in Corrections/Correctional Administration 3-0-3
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Prerequisites: Consent of the Department Chair.
CJCR 1400 Basic Jail Course 4-1-4
Provides instruction in human relations; observation; evaluation of prisoners, booking procedures; classification; mug shots; fingerprinting, strip searches; meals, medical services, visitation; inmates rights and privileges; detention areas; key; knife and tool control; disturbances; riots; fire procedures; and release procedures. Taught in accordance with the current TCLEOSE instructor guides provided by the Commission for course #1005.

CJCR 2324 Community Resources in Corrections 3-0-3
An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

CJCR 2325 Legal Aspects of Corrections 3-0-3
A study of the operation, management, and legal issues affecting corrections. Analysis of constitutional issues involving rights of the convicted, as well as civil liability of correctional agencies and staff.

CJCR 2466 Practicum (or Field Experience) Corrections/Correctional Administration 0-28-4
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Prerequisite: Consent of the Department Chair.

CJLE 1211 Basic Firearms 1-2-2
Instruction in firearm safety, cleaning and care techniques, proper shooting principles, and proficiency with a handgun and shotgun. Prerequisite: Department approval required.

CJLE 1329 Basic Peace Officer V 3-0-3
Supplemental course taken in conjunction with Basic Peace Officer Courses I, II, III, and IV. This course taken in conjunction with Basic Peace Officer I, II, III, and IV will satisfy the TCLEOSE-approved Basic Peace Officer Academy.

CJLE 1333 Traffic Law and Investigation 3-0-3
Instruction in the basic principles of traffic control, traffic law enforcement, court procedures, and traffic law. Emphasis on the need for a professional approach in dealing with traffic law violators and the police role in accident investigation and traffic supervision.

CJLE 1345 Intermediate Crime Scene Investigation 3-0-3
Topics include objectives, preparations, procedures, and methods of crime scene search; value of crime scene sketches and their relationship to crime scene photographs; fingerprints as physical evidence, fingerprint identification and classification, types of impressions and techniques for locating and developing impressions. Prerequisites: CRIJ 2314/CJSA 1342 or Police Academy.

CJLE 1506 Basic Peace Officer I 3-7-5
Introduction to fitness and wellness, history of Policing, professionalism and ethics, United States Constitution and Bill of Rights, criminal justice system, Texas Penal Code, Texas Code of Criminal Procedure, civil process, and stress management. This course, taken in conjunction with Basic Peace Officer II, III, and IV, will satisfy the TCLEOSE-approved Basic Peace Officer Training Academy.

CJLE 1512 Basic Peace Officer II 3-7-5
Basic preparation for a new peace officer. Covers field note taking, report writing, “use of force” law and concepts, problem solving, multiculturalism, professional policing approaches, patrol procedures, victims of crime, family violence, MHMR, crowd management, HAZMAT, and criminal investigation. This course, taken in conjunction with Basic Peace Officer I, III, and IV, will satisfy the TCLEOSE-approved Basic Peace Officer Academy.

CJLE 1518 Basic Peace Officer III 3-7-5
Basic preparation for a new peace officer. Covers laws pertaining to controlled substances, crowd management, personal property, and crime scene investigation. This course, taken in conjunction with Basic Peace Officer I, II, and IV, will satisfy the TCLEOSE-approved Basic Peace Officer Academy.

CJLE 1524 Basic Peace Officer IV 3-8-5
Basic preparation for a new peace officer. Covers laws directly related to police field work. Topics include Texas Transportation Code, intoxicated driver, Texas Penal Code, elements of crimes, Texas Family Code, Texas Alcoholic Beverage Code, and civil liability. Requires the demonstration and practice of the skills of a police officer including patrol, driving, traffic stop skills, use of force, mechanics of arrest, firearm safety, and emergency medical care. Also includes study of the techniques and procedures used by police officers on patrol. Includes controlled substance identification, handling abnormal persons, traffic collision investigation, note taking and report writing, vehicle operation, traffic direction, crowd control, and jail operations. This course, taken in conjunction with Basic Peace Officer I, II, and III, will satisfy the TCLEOSE-approved Basic Peace Officer Training Academy.

CJLE 2345 Vice and Narcotics Investigation 3-0-3
Study of various classifications of commonly used narcotics, dangerous drugs, gambling, sex crimes, fraud, gangs, and investigative techniques; and identify proper interdiction procedures and techniques. Prerequisite: CRIJ 2314/CJSA 134 2.

CJLE 2486 Internship-Criminal Justice/Police Science 0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Consent of the Department Chair.

CJSA 1170 Alcohol Awareness/Intervention (Europe only) 1-0-1
This course will provide the student with a basic overview of alcohol as a drug of abuse and the methodology for developing an action plan of intervention at a local level. Focus on alcohol fueled offenses and problems, identifying and dealing with alcohol abusers and the criminal justice implications of alcohol related convictions.

CJSA 1172 Topics for Parents (Europe only) 1-0-1
The course will focus on areas of concern for today’s parents; on-line predators, teenage alcohol and drug abuse and teenage domestic violence. This course will provide students with knowledge concerning these areas that will provide additional avenues of communication.
CJSA 1173 Drug Recognition for Law Enforcement  
(Europe only)  1-0-1
The course will provide the student with the basics of the most common controlled substances a law enforcement officer will encounter. The student will gain knowledge of classifications of, identification of, and effects of “street drugs”.

CJSA 1174 Terrorism as a Strategy  
(Europe only)  1-0-1
The course will consider the definition of terrorism and its place in the spectrum of political violence as well as comparing different classifications of insurgency. The course will introduce students to how terrorism is used as a strategy of insurgency and how it is a strategy based on the psychological impact.

CJSA 1175 Investigation of Sexual Abuse  
(Europe only)  1-0-1
This course discusses the different formats used to investigate the crime of sexual assault. It includes strategies to investigate sexual assault, interview victims and witnesses, document evidence in accordance with state laws, and conduct case studies.

CJSA 1176 Introduction to Gangs and Gang Infiltration of the Military  
(Europe only)  1-0-1
This course offers an introduction to gangs in America and the infiltration of gangs in the United States military. Topics include gang identification, the role of the criminal justice system and the community in suppressing, intervening and preventing gang activity, how and why gang members join the military and the impact of gangs on the military.

CJSA 1177 International Criminal Justice  
(Europe Only)  1-0-1
This course will provide an introduction to the history, policy, and practices of criminal justice in an international environment. The history of the development of the laws and judicial structures that serve to administer international criminal justice will be examined, particularly post World War II. The agencies involved in international criminal justice, from INTERPOL to the Federal Bureau of Investigation, will be studied as will the differing policing practices in particular comparative cases. Specific attention will be paid to the international issues arising for criminal justice practitioners in both domestic and foreign jurisdictions and the bodies of international law that will affect a criminal justice practitioner. Finally, the 21st Century international terrorist threat will be studied for its affects on the practice of criminal justice in civil and military contexts.

CJSA 1178 Criminal Deviance  
(Europe Only)  1-0-1
This course is an examination of criminal behavior with a special emphasis on the deviation from societal norms. The course will discuss ideas about crime, criminal intent, and criminal motivation. The course offers a survey of theories and research on the rationality of criminal behavior and stimulus of offenders. The course also offers a review of the social response to criminal behavior.

CJSA 1192 Special Topics in Criminal Justice/Law Enforcement Administration  
1-0-1
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

CJSA 1302 Private Security Officer Training  
3-0-3
A critical study of the provisions of the Texas Private Investigators and Private Security Agencies Act. Topics include the impact of the code on procedures and policies, judicial interpretation of statutes and related procedures, and rules and regulations. Satisfies the requirements for Commissioned Security Officer Skill Certification. Prerequisite: Consent of Department Chair.

CJSA 1308 Criminalistics I  
3-0-3
Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis. Prerequisites: CRJ 2314/CJSA 1342.

CJSA 1312 Crime in America  
3-0-3
The study of American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and crime prevention.

CJSA 1313 Court Systems and Practices  
3-0-3
The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing.

CJSA 1317 Juvenile Justice System  
3-0-3
A study of the juvenile justice process. Topics include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

CJSA 1318 Court Management  
3-0-3
Exploration of operational issues in the administration of American courts. Topics include responsibilities of court personnel, records management, and organizational management topics.

CJSA 1322 Introduction to Criminal Justice  
3-0-3
The study of the history and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement, court system; prosecution and defense; trial process; corrections.

CJSA 1327 Fundamentals of Criminal Law  
3-0-3
A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

CJSA 1342 Criminal Investigation  
3-0-3
Study of investigative theory, the collection and preservation of evidence, sources of information, concepts of interviewing and interrogation, the use of forensic sciences, case and trial preparation.

CJSA 1348 Ethics in Criminal Justice  
3-0-3
Ethical philosophies and issues pertaining to the various professions in the criminal justice system. Includes ethical issues emanating from constitutional conflict with public protection and individual rights, civil liberties, and correctional policies.

CJSA 1351 Use of Force  
3-0-3
A study of the use of force including introduction to and statutory authority for the use of force, force options, deadly force, and related legal issues. Fulfills the TCLEOSE Use of Force Intermediate Certificate requirement. Prerequisite: Consent of Department Chair.
**CJSA 1359 Police Systems and Practices** 3-0-3
Exploration of the profession of police officer. Topics include organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, and current and future issues.

**CJSA 1393 Special Topics in Criminal Justice Studies** 3-0-3
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Prerequisite: CRIJ 1301/CJSA 1322 and consent of Department Chair.

**CJSA 2300 Legal Aspects of Law Enforcement** 3-0-3
Exploration of police authority. Topics include responsibilities and constitutional constraints, law of arrest, search and seizure, and police liability.

**CJSA 2302 Police Management, Supervision, and Related Topics** 3-0-3
Techniques and theories regarding dealing with people, their performance and problems. Topics include basic supervision, leadership, time management, first-line supervision, and management by objectives.

**CJSA 2331 Child Abuse, Prevention and Investigation** 3-0-3
Forms of child abuse and neglect and the traits of typical abusers. Includes strategies to investigate abuse, interview victims and witnesses, document evidence in accordance with state law, and conduct case studies. Prerequisites: CRIJ 2314/CJSA 1342 or CRIJ 1313/CJSA 1317, or Police Academy.

**CJSA 2334 Contemporary Issues in Criminal Justice** 3-0-3
A series of lectures and class participation exercises presenting selected topics currently confronting criminal justice personnel and the public they serve. Prerequisite: Consent of Department Chair.

**CJSA 2488 Internship-Criminal Justice Safety Studies** 0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Consent of the Department Chair.

**CMSW 1309 Problems of Children and Adolescents** 2-4-3
This course will provide an examination of the particular problems of children and youth; and their implications for the delivery of social services. Emphasis is on social service institutions of a preventive and rehabilitative nature.

**CMSW 1319 Adolescent Development** 3-0-3
The study of the development phases from adolescence through young adulthood will be explored. Identification of the task and goals to be achieved during these stages of development will be discussed. Topics include physical and psychological changes as well as the areas of interpersonal relationships and the individual’s ability to relate to the social environment.

**CNBT Maintenance Technology** see also CBFW, CRPT, ELPT, MBST, PFPB and WDWK

**CNBT 1446 Construction Estimating I** 3-3-4
Fundamentals of estimating materials and labor costs in construction. Prerequisite: Department approval required.

**COSC Computer Science** see also BCIS

**COSC 1301 Introduction to Computing** 3-1-3
Study of basic hardware, software, operating systems, and current applications in various segments of society. Current issues such as the effect of computers on society and the history and use of computers are also studied. Labs may include but are not limited to introduction to operating systems, the Internet, word processing, spreadsheets, databases, and programming concepts with emphasis on critical thinking/problem solving. This course is intended for non-Business and non-Computer Science majors. Prerequisite: None.

**COSC 2425 Computer Organization and Machine Language** 3-3-4
Basic computer organization; machine cycle, digital representation of data and instructions; assembly language programming, assembler, loader, macros, subroutines, and program linkages. Prerequisite: None.

**CPMT Computer Electronics Technology** see also CETT, EECT, ELMT, ITCC and ITNW

**CPMT 1403 Introduction to Computer Technology** 3-3-4
A fundamental computer course that provides in-depth explanation of the procedures to utilize hardware and software. Emphasis on terminology, acronyms, and hands-on activities.

**CPMT 1445 Computer Systems Maintenance** 3-3-4
Examination of the functions of the components within a computer system. Development of skills in the use of test equipment and maintenance aids. Prerequisite CETT 1425 and CETT 1429

**CPMT 1449 Computer Networking Technology** 3-3-4
Networking fundamentals, terminology, hardware, software, and network architecture. Includes local and wide area networking concepts and networking installations and operations. Prerequisite: CETT 1425 and CPMT 1403.

**CPMT 2350 Industry Certification Preparation** 2-3-3
Overview of the objectives for industry specific certification exam(s). Prerequisite: ITCC 2408.
CPMT 2434 Network Security 3-3-4
Overall security processes with particular emphasis on hands-on skills in the following areas: security policy design and management; security technologies, products and solutions; firewall and secure router design, installation, configuration and maintenance; AAA implementation using routers and firewalls; VPN implementation using routers and firewalls.

CPMT 2445 Computer System Troubleshooting 3-3-4
Principles and practices involved in computer system troubleshooting techniques and repair procedures including advanced diagnostic test programs and the use of specialized test equipment. Prerequisite: CPMT 1445

CRIJ Criminal Justice

CRIJ 1301 Introduction to Criminal Justice 3-0-3
History, philosophy, and ethical considerations of criminal justice; the nature and impact of crime; and an overview of the criminal justice system, including law enforcement and court procedures.

CRIJ 1306 Court Systems and Practices 3-0-3
The study of the judiciary in the American criminal justice system and the adjudication processes and procedures.

CRIJ 1307 Crime in America 3-0-3
The study of American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime.

CRIJ 1310 Fundamentals of Criminal Law 3-0-3
Study of criminal law, its philosophical and historical development, major definitions and concepts, classifications and elements of crime, penalties using Texas statutes as illustrations, and criminal responsibility.

CRIJ 1313 Juvenile Justice System 3-0-3
A study of the juvenile justice process. Topics include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

CRIJ 2301 Community Resources in Corrections 3-0-3
An introductory study of the role of the community in corrections, community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

CRIJ 2313 Correctional Systems and Practices 3-0-3
A study of the role of corrections in the criminal justice system. Topics include organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatments and rehabilitation, and current and future issues.

CRIJ 2314 Criminal Investigation 3-0-3
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

CRIJ 2323 Legal Aspects of Law Enforcement 3-0-3
Exploration of police authority. Topics include responsibilities and constitutional restraints, law of arrest, search and seizure, and police liability.

CRIJ 2328 Police Systems and Practices 3-0-3
Exploration of the profession of police officer. Topics include organization of law enforcement systems, the police role, police discretion, ethics, police-community interaction, and current and future issues.

CRPT Maintenance Technology See also CBFM, CNBT, ELPT, MBST, PFPB and WDWK

CRPT 1411 Conventional Roof Systems 3-3-4
Principles of design and construction of a conventional roof system incorporating gable, hip, and intersections. Emphasis given to safe work practices and the selection, use, and maintenance of tools and equipment. Prerequisite: CRPT 1429.

CRPT 1415 Conventional Wall Systems 3-3-4
Conventional wall systems with emphasis on wood frame construction. Includes identification of components: construction of wall systems; safe work practices; and the selection, use, and maintenance of tools and equipment. Prerequisite: CRPT 1429.

CRPT 1423 Floor Systems 3-3-4
An introduction to common floor systems. Includes component identification; construction of a floor system; safe work practices; and the selection, use, and maintenance of tools and equipment. Prerequisite: CRPT 1429.

CRPT 1429 Introduction to Carpentry 3-3-4
An introduction to the carpentry trade including safety, tools, equipment, terminology, and methods.

CZEC Czech

CZEC 1311 Beginning Czech I 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

CZEC 1312 Beginning Czech II 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Prerequisite: CZEC 1311 with a grade of “C” or above.

DAAC Mental Health Services see also CHLT, CMSW, GERS, PSYT and SCWK

DAAC 1304 Pharmacology of Addiction 2-4-3
This course will study the psychological, physiological, and sociological effects of mood altering substances and behaviors. The course emphasizes pharmacological effects of tolerance, dependency/withdrawal, cross addiction, and drug interaction.

DAAC 1309 Assessment Skill of Alcohol and other Drug Addictions 2-2-3
This course examines procedures and tools used to identify and assess a client’s strengths, weaknesses, problems and needs in order to develop treatment strategies. Emphasis is on current tools in the field. Prerequisite: DAAC 1319.

DAAC 1311 Counseling Theories 2-2-3
This course provides an introduction to the major counseling theories and current treatment modalities used in working with individuals, families and groups.

DAAC 1319 Introduction to Alcohol and other Drug Addictions 2-4-3
Causes and consequences of drug abuse and addiction as they relate to the individual, family, community, and society are discussed. Overview of alternatives regarding intervention, treatment, education, and prevention are reviewed. Competencies and requirements for licensure in Texas are explained. Addiction issues related to diverse populations are presented.
DAAC 2301 Therapeutic Communities in a Criminal Justice Setting 2-4-3
Insight into the use of the therapeutic community as an approach in rehabilitation of the incarcerated substance abuser. Emphasizes therapeutic community issues such as lifestyle change, abstinence, elimination of antisocial activity, employability and pro-social attitudes and values. Includes integration of social and psychological goals. Prerequisite: DAAC 1304, DAAC 1309, DAAC 1319.

DAAC 2307 Addicted Family Intervention 2-2-3
This course will explore the family as a dynamic system focusing on the effects of addiction on family roles, rules, and behavior patterns. The course will discuss the impact of mood altering substances, behaviors, and therapeutic alternatives as they relate to the family from a multicultural and transgenerational perspective.

DAAC 2330 Multicultural Counseling 2-4-3
Characteristics of minorities and diverse populations encountered by counselors will be explored. The primary focus will include issues among those groups which affect the counseling process including communication patterns.

DAAC 2341 Counseling Alcohol and other Drug Addictions 2-4-3
Special skills and techniques in the application of counseling skills for the Alcohol and Other Drug (AOD) client will be explored. Development and utilization of advanced treatment planning and case management skills are surveyed. Prerequisites: Departmental Approval, DAAC 1167, DAAC 1304, DAAC 1309, DAAC 1319, DAAC 2354, CMSW 1309, PSYT 1329, PSYT 2321, PSYT 2331.

DAAC 2354 Dynamics of Group Counseling 2-4-3
This course provides for exploration of group counseling skills and techniques. Stages of group development and working with multicultural groups will be discussed. Prerequisites: Departmental Approval, CMSW 1309, DAAC 1304, DAAC 1319, PSYT 1329, PSYT 2321, PSYT 2331.

DAAC 2367 Practicum (or Field Experience) - Substance Abuse/Addiction Counseling 0-22-3
This advanced placement helps students gain practical experience in the discipline, enhances skills, and integrates knowledge gained from the classroom. Direct supervision at an advanced level is provided by clinical professionals at the host agency. The guided external experiences may be paid or unpaid. Liability insurance, transportation, physical exam, documentation of required immunizations, CPR/First Aid, background check, drug screen and medical insurance will be provided by the student. This course is the Capstone Experience for the student exiting the program with an Advanced Certificate and the AAS Degree in Chemical Dependency Counseling. It provides a final external learning experience that allows the student to apply broad knowledge of the profession. Prerequisites: Departmental Approval; CMSW 1309, DAAC 1167, DAAC 1304, DAAC 1309, DAAC 1319, DAAC 2307, DAAC 2341, DAAC 2354, PSYT 1329, PSYT 2321, PSYT 2331.

DFTG Computer-Aided Drafting and Design see also ARCE

DFTG 1405 Technical Drafting 3-3-4
Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, auxiliary views, and reproduction processes.

DFTG 1409 Basic Computer-Aided Drafting 3-3-4
An introduction to basic computer-aided drafting. Emphasis is placed on drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; as well as input and output devices. Prerequisites: ENGR 1304 or DFTG 1405 or concurrent enrollment.

DFTG 1417 Architectural Drafting - Residential 3-3-4
Architectural drafting procedures, practices, and symbols, including preparation of detailed working drawings for a residential structure with emphasis on light frame construction methods. All drawing assignments will be computer generated. Prerequisite: Sophomore standing in the Drafting Program.

DFTG 1458 Electrical/Electronics Drafting 3-3-4
A study of the principles of layout of electrical and electronic drawings, stressing modern representation used for block diagrams, schematic diagrams, logic diagrams, wiring, assembly drawings, printed circuit board layouts, motor control diagrams, power distribution diagrams, and electrical one-line diagrams. All drawing assignments will be computer generated. Prerequisite: Sophomore standing in the Drafting Program.

DFTG 2402 Machine Drafting 3-3-4
Production of detail and assembly drawings of machines, threads, gears, cams, tolerances and limit dimensioning, surface finishes, and precision drawings. Prerequisites: ENGR 1304 or DFTG 1405, ENGR 1305 or DFTG 2417, or concurrent enrollment.

DFTG 2412 Technical Illustration and Presentation 3-3-4
Introduction to pictorial drawings as used in industrial catalogs, assembly sheets, new paper publications and promotional literature. Topics include pictorial drawing including isometrics, oblique, perspectives, charts, and graphs, shading, and use of different media including pencil and ink. Prerequisite: ENGR 1304 or DFTG 1405, or concurrent enrollment.

DFTG 2417 Descriptive Geometry 3-3-4
Examination of the graphical solution to problems involving points, lines, and planes in space. Prerequisite: ENGR 1304 or DFTG 1405.

DFTG 2421 Topographical Drafting 3-3-4
A course in map drafting. Emphasis is given to plotting of surveys, field notes, plotting elevations, contour drawings, plan and profiles, and laying out traverses. All drawing assignments will be computer generated. Prerequisite: Second semester Sophomore standing in the Drafting Program.

DFTG 2423 Pipe Drafting 3-3-4
A study of pipe fittings, symbols, specifications and their applications to a piping process system. This application will be demonstrated through the creation of symbols and their usage in flow diagrams, plans, elevations, and isometrics. All drawing assignments will be computer generated. Prerequisite: Sophomore standing in the Drafting Program.

DFTG 2438 Final Project - Advanced Drafting 3-3-4
A general drafting course in which students participate in a simulated project. The process from conception to conclusion is studied. All work done in this class will typify actual industrial projects. An employment resume, cover letter, and portfolio will be completed as part of the course requirements. All projects will be completed with the use of Computer- Aided Drafting (AutoCAD). Prerequisites: Second semester Sophomore standing in the Drafting program.
Central Texas College & C&I Campuses Catalog 2010-2011 - Course Descriptions

DFTG 2440 Solid Modeling/Design 3-3-4
A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work. Prerequisite: DFTG 1409 and consent of the Department Chair.

DRAM Drama

DRAM 2366 Development of the Motion Picture I 3-3-3
This course focuses on the development of motion picture; analyzing visual, aural, dramatic and narrative aspects of films. A survey of historical growth and the sociological effect of film as an art is included. Prerequisite: None

DS—Developmental Studies

The credit received from these courses is not transferable and cannot be applied towards degree completion.

DSED 0300 College Study Skills 3-0-3
This course is designed to provide an opportunity for students to develop, select, and use strategies necessary in becoming prepared and successful in college and life. Emphasis in this particular course will be placed on the transference of high-level study skills to practical classroom situations and include the areas of time management, effective listening and note taking, concentration, learning through media, reading, retention of information, taking examinations, creativity, and leadership.

DSMA 0101 Basic Developmental Mathematics 1-1.5-1
This course helps students prepare to pursue college-level academic work. It uses varied instructional techniques to identify deficiencies and provide a review of fundamental operations in mathematics.

DSMA 0300 Developmental Mathematics I 5-1-3
Developmental Mathematics I is designed to help the student make the transition from arithmetic to algebra. This is accomplished through in-depth coverage of the fundamentals of whole numbers, fractions, decimals, percents, sign numbers, order of operations, prime factorization, greatest common factor, variable expressions, introduction to graphs and linear equations. A computer lab where students practice math skills is required.

DSMA 0301 Developmental Mathematics II 5-1-3
Developmental Mathematics II is designed to provide instruction and practice in performing fundamental algebraic operations involving real numbers, linear equations and inequalities, system of linear equations, polynomials, factoring, graphing, and selected application problems. A computer lab where students practice math skills is required. The prerequisite for this course is DSMA 0300 or DSMA 0304 or DSMA 0305 or an appropriate placement test score.

DSMA 0303 Developmental Mathematics IV 5-1-3
Developmental Mathematics IV requires an understanding of the topics taught in DSMA 0301. This course teaches such topics as rational expressions, rational exponents and radicals, exponential and logarithmic equations, complex numbers, nonlinear inequalities, systems of nonlinear equations, quadratic equations, and functions and their graphs. This course will assist the student in developing the critical-thinking and problem-solving skills necessary for college-level mathematics courses. A computer lab where students practice math skills is required. The prerequisite for this course is DSMA 0301 or DSMA 0306 or DSMA 0309 or an appropriate placement test score.

DSMA 0304 Fundamentals of Mathematics II 3-0-3
Fundamentals of Mathematics II is designed to help the student make the transition from arithmetic to algebra. This is accomplished through in-depth coverage of the fundamentals of whole numbers, fractions, decimals, percents, sign numbers, order of operations, prime factorization, greatest common factor, variable expressions, introduction to graphs and linear equations.

DSMA 0305 Pre-Algebra 4-0-3
This course is designed for the student who requires a flexible schedule and possesses the commitment and self-discipline to benefit from interactive on-line learning. This course includes an in-depth coverage of the fundamentals of whole numbers, fractions, decimals, percents, sign numbers, order of operations, prime factorization, greatest common factor, variable expressions, introduction to graphs and linear equations. A computer, internet connection, and designated course software to facilitate interactive learning must be available.

DSMA 0306 Introductory Algebra 3-0-3
Introductory Algebra is designed to provide instruction and practice in performing fundamental algebraic operations involving real numbers, linear equations and inequalities, system of linear equations, polynomials, factoring, graphing, and selected application problems. The prerequisite for this course is DSMA 0304 or DSMA 0300 or DSMA 0305 or an appropriate placement test score.

DSMA 0307 Intermediate Algebra 3-0-3
Intermediate Algebra requires an understanding of the topics taught in DSMA 0306. This course teaches such topics as rational expressions, rational exponents and radicals, exponential and logarithmic equations, complex numbers, nonlinear inequalities, systems of nonlinear equations, quadratic equations, and functions and their graphs. This course will assist the student in developing the critical-thinking and problem-solving skills necessary for college-level mathematics courses. The prerequisite for this course is DSMA 0306 or DSMA 0301 or DSMA 0309 or an appropriate placement test score.

DSMA 0309 Fundamentals of Algebra 4-0-3
Fundamentals of Algebra is designed for the student who requires a flexible schedule and possesses the commitment and self-discipline to benefit from interactive on-line learning. This course provides instruction and practice in performing fundamental algebraic operations involving real numbers, linear equations and inequalities, system of linear equations, polynomials, factoring, graphing, and selected application problems. A computer, internet connection, and designated course software to facilitate interactive learning must be available. The prerequisite for this course is DSMA 0305 or DSMA 0300 or DSMA 0304 or an appropriate placement test score.
DSMA 0310 Intermediate Algebra 4-0-3
Intermediate Algebra is designed for the student who requires a flexible schedule and possesses the commitment and self-discipline to benefit from interactive on-line learning. This course requires an understanding of the topics taught in DSMA0309. This course teaches such topics as rational expressions, rational exponents and radicals, exponential and logarithmic equations, complex numbers, nonlinear inequalities, systems of nonlinear equations, quadratic equations, and functions and their graphs. This course will assist the student in developing the critical-thinking and problem-solving skills necessary for college-level mathematics courses. A computer, internet connection, and designated course software to facilitate interactive learning must be available. The prerequisite for this course is DSMA 0309 or DSMA 0301 or DSMA 0306 or an appropriate placement test score.

DSRE 0101 Developmental Reading 1-1.15-1
Developmental Reading laboratory.

DSRE 0300 Developmental Reading I 2-2-3
Developmental Reading I (DSRE 0300) is a fundamental reading course designed to aid students in acquiring and improving the basic skills needed for reading college-level materials. This course was developed specifically for those who scored below 35 percent on the reading section of the Asset test. Emphasis will be on word attack skills, vocabulary development, comprehension, fluency, and study and test-taking skills. A computer lab where students practice reading skills is required.

DSRE 0301 Developmental Reading II 2-2-3
Developmental Reading II (DSRE 0301) is designed to aid students in developing and reinforcing the skills needed for reading college-level materials; specifically those who scored between 35-40 percent on the reading section of the Asset test or passed DSRE 0300. Emphasis will be on vocabulary development, literal and critical comprehension skills, and fluency. A computer lab where students practice reading skills is required. Successful completion of DSRE 0301 should provide a student with an adequate background to successfully pass the reading section of the THEA as well as any college course that requires extensive reading.

DSRE 0302 Fundamentals of Reading I 3-0-3
Fundamentals of Reading I (DSRE 0302) is a fundamental reading course designed to aid students in acquiring and improving the basic skills needed for reading college-level materials. This course was developed specifically for those who scored below 35 percent on the reading section of the Asset test. Emphasis will be on word attack skills, vocabulary development, comprehension, fluency, and study and test-taking skills.

DSRE 0303 Fundamentals of Reading II 3-0-3
Fundamentals of Reading II (DSRE 0303) is designed to aid students in developing and reinforcing the skills needed for reading college-level materials; specifically those who scored between 35-40 percent on the reading section of the Asset test or passed DSRE 0302. Emphasis will be on vocabulary development, literal and critical comprehension skills, and fluency. Successful completion of DSRE 0303 should provide a student with an adequate background to successfully pass the reading section of the THEA as well as any college course that requires extensive reading.

DSRE 0311 Developmental Reading II 4-0-3
Developmental Reading II is designed for the student who requires a flexible schedule and possesses the commitment and self-discipline to benefit from interactive on-line learning. This course’s purpose is to aid students in developing and reinforcing the skills needed for reading college-level materials; specifically those who scored between 50-69 percent on the college placement reading section or passed DSRE 0300. This course emphasizes vocabulary development, literal comprehension skills, critical reading and thinking skills, and fluency. A computer, internet connection, and designated course software to facilitate interactive learning must be available. Prerequisite: A course comparable to DSRE 0300 or appropriate test scores.

DSWR 0301 Developmental Writing I 3-1-3
Developmental Writing I is a fundamental English course designed to aid the student in acquiring the basic skills needed for college-level writing. Primary emphasis is placed on sentence and paragraph development, with additional attention given to problems in grammar and usage as these problems occur in the paragraphs. This is a required course for students who have scored below 200 on the writing section of the THEA or between 35 and 40 on the ASSET and a 2 or 3 on the writing section. Intended for native English speakers or for those students who have scored 550 or above on the Test of English as a Foreign Language (TOEFL). A computer lab where students practice writing skills is required.

DSWR 0302 Developmental Writing II 3-1-3
Developmental Writing II is a fundamental English course designed to aid the student in acquiring the basic skills needed for college-level writing. Primary emphasis is placed on essay development, with attention given to problems in grammar and usage as these problems occur in the essays. This is a required course for students who have scored between 200 and 239 on the THEA or between 35 and 40 on the ASSET and a 4 or 5 on the writing section or for students who have successfully completed DSWR-0301. Intended for native English speakers or for those students who have scored 550 or above on the Test of English as a Foreign Language (TOEFL). A computer lab where students practice writing skills is required.

DSWR 0303 Fundamentals of Writing I 3-0-3
Fundamentals of Writing I is a fundamental English course designed to aid the student in acquiring the basic skills needed for college-level writing. Primary emphasis is placed on sentence and paragraph development, with additional attention given to problems in grammar and usage as these problems occur in the paragraphs. This is a required course for students who have scored below 200 on the writing section of the THEA or between 35 and 40 on the ASSET and a 2 or 3 on the writing section. Intended for native English speakers or for those students who have scored 550 or above on the Test of English as a Foreign Language (TOEFL).

DSWR 0304 Fundamentals of Writing II 3-0-3
Fundamentals of Writing II is a fundamental English course designed to aid the student in acquiring the basic skills needed for college-level writing. Primary emphasis is placed on essay development, with attention given to problems in grammar and usage as these problems occur in the essays. This is a required course for students who have scored between 200 and 239 on the THEA or between 35 and 40 on the ASSET and a 4 or 5 on the writing section or for students who have successfully completed DSWR 0303. Intended for native English speakers or for those students who have scored 550 or above on the Test of English as a Foreign Language (TOEFL).
DSWR 0305 Developmental Studies Basic Grammar Review 3-0-3
Basic Grammar Review is an elective developmental studies course designed for those with native or near-native English speaking background who want to improve their grammar and writing skills by specifically focusing on grammar, punctuation, and mechanics in the context of the utilization of standard English sentences and paragraphs through intensive practice and revision.

DSWR 0311 Developmental Writing II 4-0-3
Developmental Writing II is designed for the student who requires a flexible schedule and possesses the commitment and self discipline to benefit from interactive on-line learning. This course’s purpose is to aid students in developing and reinforcing the skills needed for college-level writing; specifically those who scored between 50-69 percent on the college placement writing section or passed DSWR 0301.
This course emphasizes essay writing, with attention given to grammar, mechanical, and usage problems as they occur in the context of the essay intended for native English speakers or for those students who scored 550 or above on the Test of English as a Foreign Language (TOEFL). A computer, internet connection, and designated course software to facilitate interactive learning must be available. Prerequisite: A course comparable to DSWR 0301 or appropriate test scores.

DS— English as a Second Language (ESL)
The credit received from these courses is not transferable and cannot be applied towards degree completion.

DSED 0302 College Study Skills for Foreign Students (ESL) 3-1-3
This elective for ESL students at levels 2 and 3 prepares students for the Test of English as a Foreign Language (TOEFL iBT), the test required for entry into most college-level institutions. Advanced reading, listening, speaking, writing, test-taking, and research techniques are taught. Prerequisites: Completion of all courses in Level 1 DSLA.

DSLA 0310 Reading and Vocabulary I (ESL) 3-2-3
This course is designed for beginning non-native speakers who need to develop basic vocabulary and reading skills such as identifying the main idea, locating details, and using word analysis to sound out new words. A laboratory is required.

DSLA 0314 Writing I (ESL) 3-2-3
This course, designed for intermediate non-native speakers, is a continuation of Grammar I. It covers grammatical structures, beginning with clauses in complex sentences. The course focuses on the development of correct simple, compound, and complex sentences; basic process paragraphs; and expository paragraphs. A laboratory is required. Prerequisite: DSLA 0315

DSLA 0315 Grammar I (ESL) 3-1-3
This course is for beginning-intermediate non-native speakers. It covers basic elements of English sentence structure and linguistic problem areas such as countable/uncountable nouns, articles, prepositions, phrasal verbs, word order, and simple sentence construction.

DSLA 0316 Listening Comprehension I (ESL) 3-2-3
This course, for beginning non-native speakers, develops aural comprehension of simple conversations, short radio announcements, brief stories, and American language reductions such as “won’ cha” (won’t you) and “would ja” (would you).

DSLA 0317 Speaking I (ESL) 3-1-3
This course, for beginning non-native speakers, moves students from language recognition to oral production through the use of dictation and conversational dialogues.

DSLA 0318 English for Foreign Students I (ESL) 3-2-3
This course offers an integrated approach to speaking, listening, reading, and writing. Though primarily conversational in nature, grammatical concepts, reading, and writing are covered. This course may be substituted for Listening I and Speaking I.

DSLA 0320 Reading and Vocabulary II (ESL) 3-2-3
This course, for intermediate non-native speakers, provides instruction in vocabulary, reading comprehension, structural analysis, and organizational patterns. A laboratory is required. Prerequisite: DSLA 0310.

DSLA 0321 Writing II (ESL) 3-2-3
This course is a continuation of Grammar I and Writing I. Students continue their study of grammar while learning to write narrative and persuasive paragraphs. A laboratory is required. Prerequisite: DSLA 0314.

DSLA 0322 Academic Listening and Speaking II (ESL) 3-2-3
In this course, designed for intermediate non-native speakers, students develop beginning note-taking and speaking skills to prepare them for academic environments. Prerequisites: DSLA 0316 and DSLA 0317.

DSLA 0330 Reading and Vocabulary III (ESL) 3-2-3
This course is a continuation of DSLA 0320, Reading and Vocabulary II, in the Certificate Program for English-as-a-Second Language. It provides advanced vocabulary acquisition and comprehension skills through the study of short stories and informational articles. A laboratory is required.

DSLA 0332 Academic Listening and Speaking III (ESL) 3-2-3
In this course for advanced non-native speakers, students improve note taking, and oral reporting skills to prepare for college-level courses. Prerequisite: DSLA 0322.

ECON Economics

ECON 2301 Principles of Macroeconomics 3-0-3
Introduction to economic analysis, price-level changes, the creation of money, the Federal Reserve System and monetary policy, the national accounts, the consumption function, taxation, fiscal policy, public debts, the theory of economic growth and population problems, and foreign economic policy.

ECON 2302 Principles of Microeconomics 3-0-3
Determination of relative prices, consumer demand analysis, the competitive firm; agricultural policy, the monopolistic firm, imperfect competition, business organization and government regulation, determinants of demand, the economic view of taxation and public expenditure, regional economics, international trade and finance.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 1301</td>
<td>Introduction to the Teaching Profession</td>
<td>3-1-3</td>
<td>An enriched, integrated pre-service course and content experience that provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields; provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations; provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling. Classroom course content is aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Course includes a minimum of 16 contact hours of field experience in P-12 classrooms. Prerequisite: EDUC-1301.</td>
</tr>
<tr>
<td>EECT 1474</td>
<td>Basic Communications Circuits</td>
<td>3-3-4</td>
<td>An introduction to communications circuits used in both the two way and broadcast medium of transmission and reception with heavy emphasis on reception. Prerequisite: CETT 1429.</td>
</tr>
<tr>
<td>EECT 1476</td>
<td>Digital Communications</td>
<td>3-3-4</td>
<td>A broad coverage of digital communications including telephone data communications and voice synthesis. Prerequisite: CETT 1425 and CETT 1429.</td>
</tr>
<tr>
<td>EECT 2439</td>
<td>Communications Circuits</td>
<td>3-3-4</td>
<td>A study of communications systems with emphasis on amplitude modulation, frequency modulation, phase modulation, and digital pulse modulation. Discussion of several types of modulators, demodulators, receivers, transmitters, and transceivers. Prerequisite: EECT 1474.</td>
</tr>
<tr>
<td>ELMT 1301</td>
<td>Programmable Logic Controllers</td>
<td>2-4-3</td>
<td>An introduction to programmable logic controllers as used in industrial environments including basic concepts, programming, applications, troubleshooting of ladder logic, and interfacing of equipment. Prerequisites: CETT 1425 and CETT 1429.</td>
</tr>
<tr>
<td>ELMT 2339</td>
<td>Advanced Programmable Logic Controllers</td>
<td>2-4-3</td>
<td>Advanced applications of programmable logic controllers as used in industrial environments including concepts of programming, industrial applications, troubleshooting ladder logic, and interfacing of equipment. Prerequisite: ELMT 1301.</td>
</tr>
<tr>
<td>ELMT 2435</td>
<td>Certified Electronics Technician Training</td>
<td>3-3-4</td>
<td>Review of electronics concepts and principles in preparation for sitting for a certification examination administered by an outside organization or agency. Prerequisite: CETT 1449.</td>
</tr>
<tr>
<td>EECT 1474</td>
<td>Basic Electrical Theory</td>
<td>3-3-4</td>
<td>Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current.</td>
</tr>
<tr>
<td>EELPT 1429</td>
<td>Residential Wiring</td>
<td>3-3-4</td>
<td>Wiring methods for single family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures. Prerequisite: ELPT 1411.</td>
</tr>
<tr>
<td>EMAP 1345</td>
<td>Hazard Mitigation and Debris Management</td>
<td>3-0-3</td>
<td>Hazard mitigation process and available methodologies which, when applied, will contribute to reducing the vulnerability of a jurisdiction. Includes an in-depth study of potential funding mechanisms including the Hazard Mitigation Grant Program.</td>
</tr>
<tr>
<td>EMAP 1400</td>
<td>Principles of Basic Emergency Management</td>
<td>4-0-4</td>
<td>Overview of the Texas Emergency Management System and the concepts of emergency management and its integration of systems, basic definitions, identification of hazards, the role of the local emergency manager, including instruction among various government entities. This course is equivalent to the Texas Department of Emergency Management and the Federal Emergency Management Agency courses G230 and G610.</td>
</tr>
<tr>
<td>EMAP 1300</td>
<td>Developing Volunteer Resources and Decision Making</td>
<td>3-0-3</td>
<td>Management of volunteer services. Emphasizes decision-making, problem solving, and effective donation management planning and implementation. This course is equivalent to the Texas Department of Emergency Management and the Federal Emergency Management Agency courses G241 and G288.</td>
</tr>
<tr>
<td>EMAP 2301</td>
<td>Leadership and Effective Communication</td>
<td>3-0-3</td>
<td>Analysis of personal and group dynamics in an emergency management setting. Examines the interpretation of the spoken and unspoken word and the effective utilization of public information processes of print, radio, and television media. This course is equivalent to the Texas Department of Emergency Management and the Federal Emergency Management Agency courses G240 and G242.</td>
</tr>
<tr>
<td>EMAP 2302</td>
<td>Managing Mass Casualty and Fatality Incidents</td>
<td>3-0-3</td>
<td>Disaster scene control involving large numbers of casualties and coordination of the responding agencies. Includes observation and critique of mass casualty disaster drills and critical incident stress debriefing.</td>
</tr>
</tbody>
</table>
EMAP 2355 Disaster Recovery 3-0-3
Policies, concepts, and procedures of recovery. Addresses the various federal and state assistance programs. Emphasizes coordination of damage assessment, preparing documentation, and recovery procedures. This course is equivalent to the Texas Department of Emergency Management and the Federal Emergency Management Agency course G620.

EMSP Emergency Medical Technology

EMSP 1108 Emergency Vehicle Operations 0-2-1
Instruction, demonstration, and driving range practice to prepare drivers of emergency vehicles to operate their vehicles safely in the emergency and non-emergency mode.

EMSP 1145 Basic Trauma Life Support 1-0-1
Intense skill development in emergency field management, systematic rapid assessment, resuscitation, packaging, and transportation of patients. Includes experience necessary to meet initial certification requirements.

EMSP 1147 Pediatric Advanced Life Support 1-0-1
A course in a system of protocols for management of the pediatric patient experiencing difficulties in medical and/or trauma related emergencies.

EMSP 1149 Pre-Hospital Trauma Life Support 1-0-1
The course is designed to provide the practicing pre-hospital provider with specific knowledge related to the pre-hospital assessment and care of the trauma patient. Advances in pre-hospital trauma intervention techniques, along with new combinations and applications of existing skills and knowledge are included. Offered at Europe Campus only.

EMSP 1160 Clinical-Emergency Medical Technology/Technician 0-6-1
A basic, intermediate, or advanced type of health professions work-based instruction that helps students synthesize new knowledge, apply previous knowledge, or gain experience managing the workflow. Practical experience is simultaneously related to theory. Close and/or direct supervision is provided by the clinical professional (faculty or preceptor), generally in a clinical setting. Clinical education is an unpaid learning experience. Upon successful completion of this course and EMSP 1401, students are eligible to take the exam to be certified as an EMT-Basic. This course is only offered with EMSP 1401.

EMSP 1166 Practicum/Field Experience-Emergency Medical Technology/Technician 0-7-1
An intermediate or advanced type of health professions work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. The emphasis is on practical work experience for which the student has already acquired the necessary theoretical knowledge and basic skills. Direct supervision is provided by the clinical professional, generally a clinical preceptor. A health practicum may be a paid or unpaid learning experience. Upon successful completion of this course, EMSP 1441 and EMSP 1355, students are eligible to take the exam to be certified as an EMT-I. This course is only offered with EMSP 1441 and EMSP 1355.

EMSP 1167 Practicum/Field Experience-Emergency Medical Technology/Technician 0-8-1
An intermediate or advanced type of health professions work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. The emphasis is on practical work experience for which the student has already acquired the necessary theoretical knowledge and basic skills. Direct supervision is provided by the clinical professional, generally a clinical preceptor. A health practicum may be a paid or unpaid learning experience. This course is designed to meet Practicum requirements for EMSP 2444 and EMSP 2434. Prerequisites: Current CPR certification. co-requisites: EMSP 2444 and 2434. See also admission requirements.

EMSP 1170 Rapid Patient Assessment (Europe only) 1-0-1
The course is designed to train medical care providers to determine the seriousness of a patient’s condition in the first few minutes of a patient encounter. It focuses on the “Sick not Sick” method of assessment; a systematic initial assessment aimed at recognizing life threatening conditions. The method is then applied to multiple scenarios.

EMSP 1191 Special Topics in Emergency Medical Technology/Technician (Europe only) 1-0-1
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

EMSP 1268 Practicum/Field Experience-Emergency Medical Technology/Technician 0-14-2
An intermediate or advanced type of health professions work-based instruction that helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. The emphasis is on practical work experience for which the student has already acquired the necessary theoretical knowledge and basic skills. Direct supervision is provided by the clinical professional, generally a clinical preceptor. A health practicum may be a paid or unpaid learning experience. Upon successful completion of this course and EMSP 2143, students are eligible to take the exam to be certified as an EMT-P by the Texas Department of Health and/or National Registry of EMT. Prerequisites: Current CPR certification. co-requisite: EMSP 2143. See also admission requirements.

EMSP 1270 Emergency Medical Technician - Basic Refresher 1-2-2
The EMT-Basic refresher course is designed to provide training in skills and equipment necessary to help maintain basic life support. Instruction is given in basic Anatomy and Physiology, patient assessment, and the theory behind the procedures used in giving pre-hospital care to the sick and injured. This course will serve as a First Responder, Emergency Care Attendant and an Emergency Medical Technician-Basic refresher course. Emphasis of this course will be on the requirements of the national and state accrediting agencies.

EMSP 1271 Sports and Physical Training Injuries (Europe only) 2-0-2
The course is designed for the pre-hospital care provider emphasizing musculoskeletal injuries incurred during physical activity. The course is designed to build upon and extend the knowledge gained by pre-hospital care providers during an EMT-B certification course; or similar training.
EMSP 1272 EMT-B Refresher (Europe only)  2-0-2
The course is designed to refresh the Certified Emergency Medical Technician Basic with changes in trends; policies; and procedures. This course includes a review of basic knowledge and skills required to meet the National Registry of Emergency Medical Technician Basic Recertification. The course follows the Department of Transportation's EMT-B Refresher curriculum.

EMSP 1273 Advanced Airway Management (Europe only)  2-0-2
The anatomy and physiology of the respiratory system; the use of airway adjuncts; oxygen therapy; and airway care are reviewed. Then anatomical considerations and the steps in the performance of endotracheal and esophageal intubation in the adult are considered. Endotracheal intubation in the infant is presented. The steps to be followed in assisting an EMT-P during intubation are presented.

EMSP 1291 Special Topics in Emergency Medical Technology/Technician  2-0-2
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

EMSP 1305 Emergency Care Attendant  2-3-3
Basic first responder course in basic emergency medical care. Emphasis on requirements of national and state accrediting agencies.

EMSP 1338 Introduction to Advanced Practice  3-0-3
An exploration of the foundations necessary for mastery of the advanced topics of clinical practice out of the hospital.

EMSP 1355 Trauma Management  2-3-3
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with traumatic injuries. Upon successful completion of this course, EMSP 1441 and EMSP 1166, students are eligible to take the exam to be certified as an EMT-Intermediate. Prerequisites: Current CPR certification, EMSP 1401, EMSP 1160, or national registry certification, or any state certification as an EMT-Basic. See also admission requirements.

EMSP 1356 Patient Assessment and Airway Management  2-3-3
A detailed study of the knowledge and skills required to perform patient assessment and airway management.

EMSP 1370 Emergency Medical Technician - Paramedic Refresher  2-4-3
This course is designed to provide training in skills and equipment necessary to help maintain basic life support. Instruction is given in basic Anatomy and Physiology, patient assessment, and the theory behind the procedures used in giving pre-hospital care to the sick and injured. Emphasis of this course will be on the requirements of the national and state accrediting agencies. Upon successful completion of the course, the student is eligible to take the exam to be certified as an Emergency Medical-Paramedic and/or to renew EMT-paramedic by the Texas Department of Health and/or National Registry EMT.

EMSP 1391 Special Topics in Emergency Medical Technology/Technician  2-4-3
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

EMSP 1401 Emergency Medical Technician-Basic  2-6-4
Introduction to the level of Emergency Medical Technician (EMT) - Basic. Includes all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other special services. Upon successful completion of this course and EMSP 1160, students are eligible to take the exam to be certified as an EMT-Basic by the Texas Department of Health and/or National Registry of EMT. Prerequisite: Current CPR certification. See also admission requirements.

EMSP 2135 Advanced Cardiac Life Support  1-0-1
Skill development for professional personnel practicing in critical care units, emergency departments, and paramedic ambulances. Establishes a system of protocols for management of the patient experiencing cardiac difficulties.

EMSP 2143 Assessment Based Management  0-3-1
The capstone course of the EMSP program. Designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. Upon successful completion of this course and EMSP 1268, students are eligible to take the exam to be certified as an EMT-P by the Texas Department of Health and/or National Registry of EMT. Prerequisites: Current CPR certification, EMSP 2330. co-requisite: EMSP 1268. See also admission requirements.

EMSP 2147 Pediatric Education for Pre-Hospital Providers  1-0-1
A course in a system of protocols for management of the pediatric patient experiencing difficulties in medical and/or trauma-related emergencies.

EMSP 2160 Clinical – Emergency Medical EMT Paramedic  0-3-1
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

EMSP 2300 Methods of Teaching Emergency Medical Service  2-2-3
Instruction in teaching methodology for instructors of emergency medical services.

EMSP 2330 Special Populations  2-2-3
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of ill or injured patients in nontraditional populations. Upon successful completion of this course, EMSP 2444, EMSP 2434, EMSP 1167, EMSP 2143 and EMSP 1268, students are eligible to take the exam to be certified as an EMT-P by the Texas Department of Health and/or National Registry of EMT. Prerequisites: Current CPR certification, EMSP 1167. See also admission requirements.

EMSP 2338 EMS Operations  3-0-3
A detailed study of the knowledge and skills necessary to reach competence to safely manage the scene of an emergency. Prerequisites: Current CPR certification, EMSP 1401. See also admission requirements.

EMSP 2434 Medical Emergencies  3-3-4
A detailed study of the knowledge and skills necessary to reach competence in the assessment and management of patients with medical emergencies. Upon successful completion of this course, EMSP 2444, EMSP 1167, EMSP 2330, EMSP 2143 and EMSP 1268, students will be eligible to take the exam to be certified as an EMT-P by the Texas Department of Health and/or National Registry of EMT. Prerequisites: Current CPR certification, EMSP 1401 and EMSP 1160. See also admissions requirements.
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<tr>
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<tbody>
<tr>
<td>EMSP 2444</td>
<td>Cardiology</td>
<td>3-3-4</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 1302</td>
<td>Composition II</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 2307</td>
<td>Creative Writing I</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 2311</td>
<td>Technical and Business Writing</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 2322</td>
<td>British Literature I</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 2323</td>
<td>British Literature II</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 2327</td>
<td>American Literature I</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGL 2328</td>
<td>American Literature II</td>
<td>3-0-3</td>
</tr>
<tr>
<td>ENGR 1201</td>
<td>Introduction to Engineering</td>
<td>2-0-2</td>
</tr>
<tr>
<td>ENGR 1304</td>
<td>Engineering Graphics I</td>
<td>2-4-3</td>
</tr>
<tr>
<td>ENGR 1305</td>
<td>Engineering Graphics II</td>
<td>2-4-3</td>
</tr>
</tbody>
</table>

**EMSP 2444 Cardiology**
A detailed study of the knowledge and skills necessary to achieve competence in the assessment and management of patients with cardiac emergencies. Upon successful completion of this course, EMSP 2434, EMSP 1167, EMSP 2330, EMSP 2143 and EMSP 1268, students will be eligible to take the exam to be certified as an EMT-P by the Texas Department of Health and/or National Registry of EMT. Prerequisites: Current CPR certification, EMSP 1401 and EMSP 1160. See also admission requirements.

**EMSP 2458 Critical Care Paramedic**
Prepares healthcare personnel to function as members of a critical care transport team.

**ENGL English**

**ENGL 1301 Composition I**
A study of the principles and techniques of written compositions including sentence structure, paragraph development, and paper organization. Also stresses the development of critical thinking as it applies to the textual analysis of expository prose. Prerequisite: Appropriate test score(s).

**ENGL 1302 Composition II**
A continuation of ENGL 1301, emphasizing in more depth the principles and techniques of written compositions. Focus of compositions is on the development of critical thinking as it relates to the textual analysis of literary genres: the short story, poetry, drama, and the novel. Formal research paper is required. Prerequisite: ENGL 1301, or equivalent, with a grade of “C” or above.

**ENGL 2307 Creative Writing I**
This course provides practical experience in the techniques of imaginative writing. It is designed to engage students in practical criticism and contemporary trends while emphasizing the development of creative skills. Students will receive guidance and instruction in the skills and craft necessary to construct successful fiction (short stories) and poetry. Prerequisite: ENGL 1301, or equivalent, with a grade of “C” or above.

**ENGL 2311 Technical and Business Writing**
Study of technical, scientific, and business writing including reports, proposals, and other papers. The course also includes presentation of oral reports. Prerequisite: ENGL 1301 or ENGL 1312, or equivalent, with a grade of “C” or above.

**ENGL 2322 British Literature I**
A survey of English literature from Beowulf to the major writers of the 18th Century. Although careful attention is given to the historical, social, and intellectual developments that gave rise to the literature, the emphasis of the course is on individual selections themselves as outstanding expressions of the English literary heritage. The course employs critical reading, thinking, and writing skills in the analysis of a wide variety of selected readings. Prerequisites: ENGL 1301 and 1302, or equivalent, with a grade of “C” or above.

**ENGL 2323 British Literature II**
A survey of English literature from the early Romantic writers to the Twentieth Century. Although careful attention is given to the historical, social, and intellectual developments that gave rise to the literature, the emphasis of the course is on the individual selections themselves as outstanding expressions of the English literary heritage. The course employs critical reading, thinking, and writing skills in the analysis of a wide variety of selected readings. Prerequisites: ENGL 1301 and 1302, or equivalent, with a grade of “C” or above.

**ENGL 2327 American Literature I**
A survey of American literature from selected Pre-Colonial and Colonial literature to selected major writers of the American Renaissance period. Although careful attention is given to the historical, social, and intellectual developments that gave rise to the literature, the emphasis of the course is on the individual selections themselves as outstanding expressions of our American literary heritage. The course employs critical reading, thinking, and writing skills in the analysis of a wide variety of selected readings. Prerequisites: ENGL 1301 and 1302, or equivalent, with a grade of “C” or above.

**ENGL 2328 American Literature II**
A survey of American literature beginning with Walt Whitman and ending with selected major writers from the present. Although careful attention is given to the historical, social, and intellectual developments that gave rise to the literature, the emphasis is on the individual selections themselves as outstanding expressions of our American literary heritage. The course employs critical reading, thinking, and writing skills in the analysis of a wide variety of selected readings. Prerequisites: ENGL 1301 and 1302, or equivalent, with a grade of “C” or above.

**ENGL 2332 World Literature I**
A survey of the major works of world writers from ancient epics to Renaissance poetry. Emphasis will be placed on individual selections of literature as outstanding examples of literary masterpieces and on significant themes represented across the literature. Social, intellectual and historical developments will be examined to highlight literary development through the ages. The course employs critical reading, thinking, and writing skills in an analysis of a wide variety of selected reading. Prerequisites: ENGL 1301 and 1302, or equivalent, with a grade of “C” or above.

**ENGL 2333 World Literature II**
A survey of the major works of world writers from the Enlightenment to the Twenty-first Century. Emphasis will be placed on individual selections of literature as outstanding examples of literary masterpieces and on significant themes represented across the literature. Social, intellectual and historical developments will be examined to highlight literary development through the ages. The course employs critical reading, thinking, and writing skills in an analysis of a wide variety of selected readings. Prerequisites: ENGL 1301 and 1302, or equivalent, with a grade of “C” or above.

**ENGR Engineering**

**ENGR 1201 Introduction to Engineering**
Introduction to engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society. Prerequisite: MATH 1414 or equivalent with a grade of “C” or above.

**ENGR 1304 Engineering Graphics I**
Freehand and instrument drawing, dimensioning, fastening, pictorial methods, charts and graphs, projections drawing, geometry of graphical construction and an introduction to Computer-Aided Drafting. Required for beginning engineering students.

**ENGR 1305 Engineering Graphics II**
Involve point, line, and plane relationships; auxiliary views; intersections; and flat-pattern development. Emphasis is placed on practical solutions to realistic engineering problems relating to aerospace, mining, and geology. Prerequisite: ENGR 1304.
ENVR  Environmental Science

ENVR 1401 Environmental Science I  3-3-4
Environmental science is an interdisciplinary study that draws from the physical, biological, and social sciences. It attempts to understand how life on Earth is sustained, what leads to environmental problems, and how to manage these problems. This course satisfies the science requirements in most curricula. As a four semester credit hour course, there is a lecture and laboratory component. Prerequisite: Test score of 240 on both math and reading sections of the THEA exam or equivalent. No students are exempt from testing. Co-requisite: ENVX 1401.

FIRT  Fire Protection

FIRT 1301 Fundamentals of Fire Protection  3-0-3
Overview to fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection/service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local governments, laws and regulations affecting the fire service, fire service nomenclature, specific fire protection functions, and basic fire chemistry and physics. Includes introduction to fire protection systems and introduction to fire strategy and tactics.

FIRT 1303 Fire and Arson Investigation I  3-0-3
In-depth study of basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination.

FIRT 1307 Fire Prevention Codes & Inspections  3-0-3
Study of local building and fire prevention codes. Emphasis on fire prevention inspections, practices, and procedures.

FIRT 1309 Fire Administration I  3-0-3
Introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer.

FIRT 1311 Fire Service Hydraulics  3-0-3
Principles of the use of water in fire protection. Includes application of hydraulic principles to analyze and solve water supply problems. Not offered in Texas.

FIRT 1315 Hazardous Materials I  3-0-3
Study of the chemical characteristics and behavior of various materials. Topics include storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation.

FIRT 1319 Firefighter Health and Safety  3-0-3
Study of firefighter occupational safety and health in emergency and non-emergency situations.

FIRT 1329 Building Codes and Construction  3-0-3
Examination of building codes and requirements, construction types, and building materials. Topics include walls, floorings, foundations, and various roof types and the associated dangers of each. Not offered in Texas.

FIRT 1333 Fire Chemistry I  3-0-3
Introduction to the chemical nature and properties of inorganic compounds as related to the fire service. Topics include fundamental laws of chemistry, states of matter, gas laws, chemical bonding, and thermodynamics with applications to various industrial processes. Not offered in Texas.

FIRT 1338 Fire Protection Systems  3-0-3
Design and operation of fire detection and alarm systems, heat and smoke control systems, special protection and sprinkler systems, water supply for fire protection, and portable fire extinguishers.

FIRT 1345 Hazardous Materials II  3-0-3
In-depth study of mitigation practices and techniques to effectively control hazardous material spills and leaks. Not offered in Texas.

FIRT 1347 Industrial Fire Protection  3-0-3
Study of industrial emergency response teams and specific concerns related to business and industrial facilities. Not offered in Texas.

FIRT 1349 Fire Administration II  3-0-3
In-depth study of fire service management as pertaining to budgetary requirements, administration, organization of divisions within the fire service, and relationships between the fire service and outside agencies. Not offered in Texas.

FIRT 2309 Firefighting Strategies and Tactics I  3-0-3
Analysis of the nature of fire problems and selection of initial strategies and tactics including an in-depth study of efficient and effective use of manpower and equipment to mitigate the emergency.

FIRT 2319 Fire Chemistry II  3-0-3
Chemical compounds related to the fire service. Includes effective selection of extinguishing agents and method of application. Not offered in Texas.

FIRT 2331 Firefighting Strategies and Tactics II  3-0-3
Continuation of Firefighting Strategies and Tactics I. Emphasis on use of incident command in large scale command problems and other specialized fire problems. Not offered in Texas.

FREN French

FREN 1411 Beginning French I  4-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

FREN 1412 Beginning French II  4-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: FREN 1411 with a grade of “C” or above.

FREN 2311 Intermediate French I  3-0-3
This course includes grammar review, composition, and reading of French masterpieces, with conversation based on material read. Prerequisite: FREN 1411 and 1412 with a grade of “C” or above.

FREN 2312 Intermediate French II  3-0-3
This course continues reading of French masterpieces and drill on syntax as needed for reading, composition, and conversation. Prerequisite: FREN 2311 with a grade of “C” or above.
GAME  Computer Science  See also IMED, ITNW, ITSC, ITSE, ITCW and ITSY

GAME 1403 Introduction to Game Design and Development 3-3-4
Introduction to electronic game development and game development careers. Includes examination of history and philosophy of games, the game production process, employee factors for success in the field, and current issues and practices in the game development industry. Prerequisites: 4 hours of computer science courses.

GEOL  Geology

GEOL 1403 Physical Geology 3-3-4
An introductory course about the materials and processes of the Earth. Topics included are: minerals, rocks, plate tectonics, continental evolution, earthquakes, seismology, volcanoes, weathering, running water, ground water, mass wasting, and others. The study of regional rocks and minerals and the opportunity for field observation and collection are provided. Co-requisite: GEOX 1403.

GEOL 1404 Historical Geology 3-3-4
The course involves a study of the record of life forms that have developed throughout geological time. It also covers the development of the Earth from its cosmic beginning to current land forms. Principles of stratigraphy, sedimentary processes, paleontology, geologic time, plate tectonics, and hypotheses of the Earth’s origin are studied in the course. The study of local and regional fossil fauna and the opportunity for field observation and collection of rocks and the fossils are provided. Co-requisite: GEOX 1403.

GEOL 1405 Environmental Geology 3-2-4
An interdisciplinary course which includes an overview of Earth materials and processes, which then goes on to focus upon specific geologic problems and possible solutions. A major emphasis of this course is that of the relationship of geology with other academic and practical matters and studies.

GERM  German

GERM 1411 Beginning German I 4-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

GERM 1412 Beginning German II 4-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: GERM 1411 with a grade of “C” or above.

GERM 2311 Intermediate German I 3-0-3
This course includes grammar review, composition and practice in conversation, with readings in contemporary German writings. Includes short stories and some longer works, providing a conversational basis. Prerequisite: GERM 1411 and 1412 with a grade of “C” or above.

GERM 2312 Intermediate German II 3-0-3
This course continues reading in contemporary German writings and drill on syntax as needed for reading, composition, and conversation. Prerequisite: GERM 2311 with a grade of “C” or above.

GERS  Mental Health Services  See also CMSW, DAAC, CHLT, PSYT and SCWK

GERS 1343 Psychology of Adult Development and Aging 3-0-3
This course is the scientific study of a lifelong process of development with specific focus on the physical, cognitive, and psychosocial aspects of adult development and aging. The course includes a study of common cognitive disorders that affect the elderly with emphasis on mental health and optimum development.

GOVT  Government

GOVT 2301 American Government I 3-0-3
An introductory, survey course on various United States, Texas, and local government topics. This course includes study of the U.S. and Texas constitutions, federalism, local governments, national elections (state and local), civil liberties, interest groups, and political parties.

GOVT 2302 American Government II 3-0-3
An introductory, survey course on various United States, Texas, and local government topics. This course includes studying institutions of national and Texas governments including the executive, legislative, and judicial branches; the bureaucracy; and public policy including defense and foreign relations.

GOVT 2304 Introduction to Political Science 3-0-3
This course is designed to introduce the student to the general area of political science and to provide knowledge and understanding of political fundamentals, public law, political dynamics, public policy, theory and organization of the modern state, and international relations.

HAMG  Hospitality Management  see also CHEF, IFWA, PSTR, RSTO and TRVM

HAMG 1313 Front Office Procedures 3-0-3
A study of the flow of activities and functions in today’s lodging operation. Topics include a comparison of manual, machine-assisted, and computer-based methods for each front file function. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

HAMG 1319 Computers in Hospitality 2-3-3
An introduction to computers and their relationship as an information system to the hospitality industry. This course includes an overview of industry specific software.

HAMG 1321 Introduction to the Hospitality Industry 3-0-3
Introduction to the elements of the hospitality industry.

HAMG 1324 Hospitality Human Resource Management 3-0-3
A study of the principles and procedures of managing people in the hospitality workplace. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.
HAMG 1340 Hospitality Legal Issues 3-0-3
A course in legal and regulatory requirements that impact the hospitality industry. Topics include Occupational Safety and Health Administration (OSHA), labor regulations, tax laws, tip reporting, franchise regulations, and product liability laws. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

HAMG 1342 Guest Room Maintenance 3-1-3
Demonstrates the working relationship in the lodging industry between housekeeping and maintenance. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

HAMG 2301 Principles of Food and Beverage Operations 3-0-3
An introduction to food, beverage, and labor cost controls with an overview of the hospitality industry from procurement to marketing. Examination of cost components including forecasting, menu planning and pricing, logistical support, production, purchasing, and quality assurance.

HAMG 2307 Hospitality Marketing and Sales 3-0-3
Identification of the core principles of marketing and their impact on the hospitality industry.

HAMG 2332 Hospitality Financial Management 3-0-3
Methods and application of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis.

HAMG 2337 Hospitality Facilities Management 3-0-3
Identification of building systems, facilities management, security and safety procedures. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

HAMG 2370 Hospitality Financial Management II 3-0-3
This course serves as a bridge between basic accounting and managerial accounting courses. Covers such areas as specialized accounting for hotel revenue and expenses; periodic inventory accounting for food and beverage areas; hospitality payroll accounting; intangible assets; accounting for inventory, property and equipment; financial information systems; hotel departmental financial statements; the income statement, balance sheets and statement of cash flow; the analysis of financial statements; and interim and annual reports. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

HAMG 2378 Internship - Hospitality Administration and Management 0-17-3
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Consent of the Program Director.

HART Heating, Air Conditioning and Refrigeration

HART 1401 Basic Electricity for HVAC 3-3-4
Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. Prerequisite: department consent required.

HART 1403 Air Conditioning Control Principles 3-3-4
A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm’s law as applied to air conditioning controls and circuits. Prerequisite: HART 1401.

HART 1407 Refrigeration Principles 3-3-4
An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components and safety. Prerequisite: department consent required.

HART 1441 Residential Air Conditioning 3-3-4
A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. Prerequisite: HART 1407.

HART 1445 Gas and Electric Heating 3-3-4
Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems. Prerequisite: HART 1401.

HART 2431 Advanced Electricity for HVAC 3-3-4
Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution, motors, motor controls, and application of solid state devices. Prerequisites: HART 1401 and HART 1403.

HART 2436 Air Conditioning Troubleshooting 3-3-4
An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests. Prerequisites: HART 1401, 1403, 1407, 1441, 1445.

HART 2438 Air Conditioning Installation and Startup 3-3-4
A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing. Prerequisite or co-requisite: HART 1407.

HART 2441 Commercial Air Conditioning 3-3-4
A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less. Prerequisites: HART 1401, HART 1407, HART 1441.

HART 2442 Commercial Refrigeration 3-3-4
Theory and practical application in the maintenance of commercial refrigeration; medium and low temperature applications and ice machines. Prerequisites: HART 1401 and HART 1407.

HART 2445 Residential Air Conditioning System Design 3-3-4
Study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. Prerequisite: HART 1407.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HART 2449</td>
<td>Heat Pumps</td>
<td>3-3-4</td>
<td>A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems. Prerequisites: HART 1401, HART 1403, HART 1407, and HART 1441.</td>
</tr>
<tr>
<td>HART 2488</td>
<td>Internship - Heating, A/C, Ventilation and</td>
<td></td>
<td>A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and employer. Prerequisite: Department approval required.</td>
</tr>
<tr>
<td></td>
<td>Refrigeration Maintenance Technology/Technician</td>
<td>0-19-4</td>
<td></td>
</tr>
<tr>
<td>HIND 1411</td>
<td>Beginning Hindi I</td>
<td>3-2-4</td>
<td>This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.</td>
</tr>
<tr>
<td>HIND 1412</td>
<td>Beginning Hindi II</td>
<td>3-2-4</td>
<td>Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: HIND 1411 with a grade of “C” or above.</td>
</tr>
<tr>
<td>HIND 2311</td>
<td>Intermediate Hindi I</td>
<td>3-0-3</td>
<td>This course includes grammar review, composition, and reading with conversation based on material read. Prerequisite: HIND 1411 and 1412 with a grade of “C” or above.</td>
</tr>
<tr>
<td>HIND 2312</td>
<td>Intermediate Hindi II</td>
<td>3-0-3</td>
<td>This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: HIND 2311 with a grade of “C” or above.</td>
</tr>
<tr>
<td>HIST 1301</td>
<td>United States History I</td>
<td>3-0-3</td>
<td>English colonization, the Revolution, adoption of the Constitution, growth of nationalism, cotton and the slavery problem, civil war, and reconstruction.</td>
</tr>
<tr>
<td>HIST 1302</td>
<td>United States History II</td>
<td>3-0-3</td>
<td>New social and industrial problems, rise of the progressive movement, United States’ emergence as a world power, World War I, reaction and the New Deal, World War II, and contemporary America.</td>
</tr>
<tr>
<td>HIST 2301</td>
<td>Texas History</td>
<td>3-0-3</td>
<td>A survey of Texas from the Spanish exploration to the present.</td>
</tr>
<tr>
<td>HIST 2311</td>
<td>Western Civilization I</td>
<td>3-0-3</td>
<td>A survey course examining social, political, economic, and technological developments of early civilizations of the Near East through European exploration and conquests of the Far East and the New World. Additional topics include examination of the Greek and Roman civilizations, the European Medieval Period, the rise and spread of Islam, the Middle Ages, and the European Renaissance and Reformation.</td>
</tr>
<tr>
<td>HIST 2312</td>
<td>Western Civilization II</td>
<td>3-0-3</td>
<td>A survey course examining social, political, economic, and technological developments of Europe from the Seventeenth through Twentieth centuries. Particular topics include the formation of modern nation-states, the Enlightenment, the scientific and industrial revolutions, political upheavals in Europe and the New World, the clash of ideologies, imperialism, nationalism, the world wars, and the Cold War.</td>
</tr>
<tr>
<td>HIST 2381</td>
<td>African-American History</td>
<td>3-0-3</td>
<td>The purpose of this course is to familiarize students with the general study of African-American history from the early days of West Africa to American slavery and freedom and ending with the modern civil-rights movement of the 1950s and 1960s.</td>
</tr>
<tr>
<td>HITT 1249</td>
<td>Pharmacology</td>
<td>1-3-2</td>
<td>Overview of the basic concepts of the pharmacological treatment of various diseases affecting major body systems. Recommended prerequisites: HITT 1305 or MDCA 1409.</td>
</tr>
<tr>
<td>HITT 1301</td>
<td>Health Data Content and Structure</td>
<td>2-4-3</td>
<td>Introduction to systems and processes for collecting, maintaining, and disseminating primary and secondary health related information including content of health record, documentation requirements, registries, indices, licensing, regulatory agencies, forms and screens.</td>
</tr>
<tr>
<td>HITT 1303</td>
<td>Medical Terminology II</td>
<td>2-4-3</td>
<td>A continuation of word origin and structure. Includes prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures. Prerequisite: HITT 1305 or equivalent.</td>
</tr>
<tr>
<td>HITT 1305</td>
<td>Medical Terminology I</td>
<td>2-4-3</td>
<td>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.</td>
</tr>
<tr>
<td>HMSY 1337</td>
<td>Introduction to Homeland Security</td>
<td>3-0-3</td>
<td>Overview of homeland security. Evaluation of the progression of homeland security issues throughout Texas and the United States. An examination of the roles undertaken and methods used by governmental agencies and individuals to respond to those issues.</td>
</tr>
<tr>
<td>HMSY 1338</td>
<td>Homeland Security Emergency Communications</td>
<td>3-0-3</td>
<td>A study of public safety communication system interactions. Topics include political and policy basis of emergency management, technology, mitigation, and disaster recovery. Includes an overview of incident command systems, emergency management, mitigation for emergency managers, and individual and community disaster education.</td>
</tr>
<tr>
<td>HMSY 1339</td>
<td>Homeland Security Emergency Contingency Planning</td>
<td>3-0-3</td>
<td>Procedures for developing, implementing, and updating an Emergency Contingency Plan that outlines public agencies and private industry response, recovery, and mitigation. Includes types of aid available to individuals and communities after a disaster. Also covers interagency and intergovernmental emergency preparedness, planning, training, and exercises are included.</td>
</tr>
<tr>
<td>HMSY 1340</td>
<td>Homeland Security Intelligence Operations</td>
<td>3-0-3</td>
<td>A study of the intelligence community. Includes the role of intelligence and law enforcement. Topics include collection methods, cycle, management of operations, classification, production and analysis, assessment of targets, and assessment of threat vulnerability. Source development will be conducted.</td>
</tr>
</tbody>
</table>
**HMSY 1341 Critical Infrastructure Protection**  3-0-3
Identification and analysis of critical infrastructure systems including security and threat assessments. Includes mitigation of threats as well as evaluation and revision of security measures in order to protect critical infrastructures.

**HMSY 1342 Understanding and Combating Terrorism**  3-0-3
Study of terrorism and reasons why America is a terrorist target. Includes methods of combating domestic and international terrorism, terrorist operations, cyber-terrorism, narco-terrorism, the mind of the terrorist, and organized crime's impact on terrorism.

**HMSY 1343 Weapons of Mass Destruction**  3-0-3
This course covers hazard and risk assessment, crime scene preservation, chemical agents, biological agents, radiological agents, explosive devices, detection-sampling and plume models, and personal protection methods. The critical role of first responders in weapons of mass destruction, mitigation, and survival will also be presented. Discussion will include historical events related to the use of weapons of mass destruction.

**HMSY 1470 Final Project in Homeland Security and Emergency Management**  4-0-4
Students will participate in a comprehensive project from conception to conclusion. The student will be required to plan and develop a project consisting of research, design, and layout. A formal written report and a demonstration and presentation of the process and results are required.

**HMSY 2337 Managing a Unified Incident Command**  3-0-3
A study of the common set of procedures of the unified incident command system for organizing personnel, facilities, equipment, and communications to successfully coordinate multi-agency response. Includes the identification and application of key roles and functional responsibilities for professionally managing multi-agency incidents. Also covers one or more practical application exercises and/or scenarios.

**HMSY 2476 Internship - Homeland Security and Emergency Management**  0-12-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

**HRPO Business Administration and Management**  see also BMGT, BUSG and MRKG

**HRPO 1311 Human Relations**  3-0-3
Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment.

**HRPO 2301 Human Resources Management**  3-0-3
Behavioral and legal approaches to the management of human resources in organizations.

**HUMA Humanities**

**HUMA 1315 Fine Arts Appreciation**  3-0-3
This is an introductory course designed to give the student a fundamental understanding and appreciation of diverse modes of expression through the visual arts, within the context of Fine and Applied Arts. Prerequisite: None

**IFWA Hospitality Management**  see also CHEF, HAMG, PSTR, RSTO and TRVM

**IFWA 1318 Nutrition for the Food Service Professional**  3-0-3
An introduction to nutrition including nutrients, digestion and metabolism, menu planning, recipe modification, dietary guidelines and restrictions, diet and disease, and healthy cooking techniques.

**IMED Computer Science**  see also GAME, ITNW, ITSC, ITSE, ITSW and ITSY

**IMED 1416 Web Design I**  3-3-4
Instruction in web page design and related graphic design issues including mark-up languages, web sites, and browsers.

**IMED 2409 Internet Commerce**  3-3-4
An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include dynamic data integration, data collection, and online transactions. Prerequisite: ITNW 1437, or ITSC 1409, or BCIS 1405.

**INDO Indonesian**

**INDO 1411 Beginning Indonesian I**  3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

**INDO 1412 Beginning Indonesian II**  3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: INDO 1411 with a grade of “C” or above.

**INDO 2311 Intermediate Indonesian I**  3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisite: INDO 1411 and 1412 with a grade of “C” or above.

**INDO 2312 Intermediate Indonesian II**  3-0-3
This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: INDO 2311 with a grade of “C” or above.

**ITAL Italian**

**ITAL 1311 Beginning Italian I**  3-0-3
This course is designed to help learners build proficiency in Italian and appreciation for the Italian language. It will also help students to develop an understanding of the Italian culture while providing contexts that reinforce the usefulness of the Italian language while living and traveling in Italy. This course is only available, under contract, to the Navy Pace Campus.

**ITAL 1312 Beginning Italian II**  3-0-3
This course is a continuation of ITAL 1311, Beginning Italian I. This course will build upon skills developed in Beginning Italian I, with continued emphasis on understanding Italian culture. Prerequisite: ITAL 1311. This course is only available, under contract, to the Navy Pace Campus.

**ITAL 1411 Beginning Italian I**  4-2-4
This course includes basic grammar drill, simple reading, and conversation.

**ITAL 1412 Beginning Italian II**  4-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: ITAL 1411 with a grade of “C” or above.
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<tbody>
<tr>
<td>ITAL 2311</td>
<td>Intermediate Italian I</td>
<td>3-0-3</td>
<td>This course includes grammar review, composition, and reading of Italian masterpieces, with conversation based on material read. Prerequisite: ITAL 1411 and ITAL 1412 with a grade of &quot;C&quot; or above.</td>
</tr>
<tr>
<td>ITAL 2312</td>
<td>Intermediate Italian II</td>
<td>3-0-3</td>
<td>This course continues reading of Italian masterpieces and drill on syntax as needed for reading composition and conversation. Prerequisite: ITAL 2311 with a grade of &quot;C&quot; or above.</td>
</tr>
<tr>
<td>ITNW</td>
<td>Computer Science see also GAME, IMED, ITSC, ITSE, ITSW and ITSY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITNW 1408</td>
<td>Implementing and Supporting Client Operating Systems</td>
<td>3-3-4</td>
<td>Skills development in the management of client as desktop operating systems. Emphasis will be on the MS Windows Server environment. Presents information needed to prepare for and take the Microsoft Exam 70-270. Co-requisite: ITNW-1458 should be taken concurrently with ITNW-1408.</td>
</tr>
<tr>
<td>ITNW 1416</td>
<td>Network Administration</td>
<td>3-3-4</td>
<td>An introduction to Network administration as applied to Microsoft Server 2008. Topics include the role of directory services; access to network services, configuring file and print services; IP address and name resolution and services. This course prepares the individual to take the Microsoft MCITP 70-642 exam leading to certification for Microsoft Server 2008.</td>
</tr>
<tr>
<td>ITNW 1425</td>
<td>Fundamentals of Networking Technologies</td>
<td>3-3-4</td>
<td>Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.</td>
</tr>
<tr>
<td>ITNW 1437</td>
<td>Introduction to the Internet</td>
<td>3-3-4</td>
<td>Introduction to the Internet with emphasis on using the World Wide Web to locate, transfer, publish information, and create web pages in HTML; creating simple web pages using internet and DHTML. Survey of emerging technologies on the Internet. Prerequisite: None.</td>
</tr>
<tr>
<td>ITNW 1454</td>
<td>Implementing and Supporting Servers</td>
<td>3-3-4</td>
<td>Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. Emphasis will be on the MS Windows Server environment. Presents information needed to prepare for and take the Microsoft Exam 70-290. Prerequisite: None.</td>
</tr>
<tr>
<td>ITNW 1458</td>
<td>Network+</td>
<td>3-3-4</td>
<td>Presents information needed to prepare for and take the Computing Technology Industry Association (CompTIA) Network+ certification exam and for a career as a network professional. Prerequisite: None.</td>
</tr>
<tr>
<td>ITNW 2405</td>
<td>Network Administration</td>
<td>3-3-4</td>
<td>Topics include network components, user accounts and groups, network file systems, file system security, and network printing.</td>
</tr>
<tr>
<td>ITNW 2435</td>
<td>Network Troubleshooting and Support</td>
<td>3-2-4</td>
<td>Troubleshoot and support networks with emphasis on solving real world problems in a hands-on environment. Topics include troubleshooting and research techniques, available resources, and network management hard/software. Prepares individuals to sit for the MS A+ Training exam. Prerequisite: ITNW 2405 or concurrent enrollment.</td>
</tr>
<tr>
<td>ITNW 2454</td>
<td>Internet/Intranet Server</td>
<td>3-3-4</td>
<td>Designing, installing, configuring, maintaining, and managing an Internet/Intranet server. Configure Domain Name System (DNS), configure Active Directory. This course prepares the individual to take the Microsoft MCITP 70-640 exam leading to certification for Microsoft Server 2008.</td>
</tr>
<tr>
<td>ITNW 2456</td>
<td>Designing a Network Directory Infrastructure</td>
<td>3-3-4</td>
<td>Design, implement, and support a network directory infrastructure in a multi-domain environment. Emphasis will be on the MS Windows Server environment. Presents information needed to prepare for and take the Microsoft Exam 70-291. Prerequisite: None.</td>
</tr>
<tr>
<td>ITNW</td>
<td>Electronics see also CETT, CPMT, EECT, ELMT and ITCC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITNW 1451</td>
<td>Fundamentals of Wireless LANs</td>
<td>3-3-4</td>
<td>Designing, planning, implementing, operating, and troubleshooting wireless LANs (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies. Prerequisite: Department approval.</td>
</tr>
<tr>
<td>ITSC</td>
<td>Computer Science see also GAME, ITNW, ITSE, ITSW and ITSY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITSC 1301</td>
<td>Introduction to Computers</td>
<td>3-1-3</td>
<td>Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources. Prerequisite: None</td>
</tr>
<tr>
<td>ITSC 1405</td>
<td>Introduction to PC Operating Systems</td>
<td>3-3-4</td>
<td>An introduction to personal computer operating systems including installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities.</td>
</tr>
<tr>
<td>ITSC 1409</td>
<td>Integrated Software Applications I</td>
<td>3-3-4</td>
<td>Introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software. Prerequisite: None</td>
</tr>
<tr>
<td>ITSC 1415</td>
<td>Project Management Software</td>
<td>3-3-4</td>
<td>Use of project management software for developing a project plan including timelines, milestones, scheduling, life cycle phases, management frameworks, skills, processes, and tools. Prerequisites: 4 hours of computer science courses.</td>
</tr>
<tr>
<td>ITSC 2439</td>
<td>Personal Computer Help Desk Support</td>
<td>3-3-4</td>
<td>Diagnosis and solution of user hardware and software related problems with on-the-job and/or simulated projects. Prerequisite: 12 semester hours of computer science courses.</td>
</tr>
<tr>
<td>ITSC 2486</td>
<td>Internship - Computer and Information Sciences, General</td>
<td>0-19-4</td>
<td>A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: 24 semester hours of computer science courses.</td>
</tr>
</tbody>
</table>
ITSE Computer Science see also GAME, IMED, ITNW, ITSC, ITSE and ITSY

ITSE 1407 Introduction to C++ Programming 3-3-4
Introduction to programming using C++. Emphasis on the fundamentals of object-oriented design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Prerequisite: None.

ITSE 1431 Introduction to Visual Basic Programming 3-3-4
Introduction to computer programming using Visual Basic. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. Prerequisite: None.

ITSE 1450 System Analysis and Design 3-3-4
Introduction to the planning, design, and construction of computer information systems using the systems development life cycle and other appropriate design tools. Prerequisites: Must have 16 semester hours of computer science courses.

ITSE 2413 Web Authoring 3-3-4
Instruction in designing and developing web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools. Prerequisites: ITNW 1437 or IMED 1416.

ITSE 2417 JAVA Programming 3-3-4
Introduction to object oriented JAVA programming, including the fundamental syntax and semantics of JAVA for applications and web applets. Prerequisite: ITSE 1431.

ITSE 2431 Advanced C++ Programming 3-3-4
Further application of C++ programming techniques including file access, abstract data structures, class inheritance modeling, and other advanced techniques. Prerequisite: ITSE 1407.

ITSE 2486 Internship - Computer Programming/Programmer, General 0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisites: 24 hours in computer science courses.

ITSY Computer Science see also GAME, IMED, ITNW, ITSC, ITSE and ITSW

ITSY 1400 Fundamentals of Information Security 3-3-4
An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed. Prerequisite: None

ITSY 1442 Information Technology Security 3-3-4
Instruction in security for network hardware, software, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Prerequisite: None

ITSY 2400 Operating System Security 3-3-4
Safeguard computer operating systems by demonstrating server support skills and understanding the design and implementation of a security system. Identify security threats and monitor network security implementations. Understand how to configure operating systems to industry security standards. Prerequisite: 15 hours of computer science courses or ITSC 1405

ITSY 2401 Firewalls and Network Security 3-3-4
Identify elements of firewall design, types of security threats and responses to security attacks. Understand how to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities. Prerequisites: ITSY 1400 or concurrent enrollment.

ITSY 2441 Security Management Practices 3-3-4
In-depth coverage of security management practices, including asset evaluation and risk management; cyber law and ethics issues; policies and procedures; business recovery and business continuity planning; network security design; and developing and maintaining a security plan. Prerequisite: ITSY 1400.

ITSY 2459 Security Assessment and Auditing 3-3-4
Capstone experience for the security curriculum. Synthesizes technical material covered in prior courses to monitor, audit, analyze, and revise computer and network security systems to ensure appropriate levels of protection are in place to assure regulatory compliance. Prerequisite: ITSY 1400.

JAPN Japanese

JAPN 1311 Beginning Japanese I 3-0-3
Introduction to Japanese with emphasis on conversation, grammar, and the written forms. There will also be readings of simple texts dealing with Japanese life and culture.

JAPN 1312 Beginning Japanese II 3-0-3
Continuation of Japanese conversation, grammar and the written forms. Emphasis is on reading texts dealing with Japanese life and culture. Prerequisite: JAPN 1311 with a grade of “C” or above.

JAPN 1411 Beginning Japanese I 4-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

JAPN 1412 Beginning Japanese II 4-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: JAPN 1411 with a grade of “C” or above.
JAPN 2311 Intermediate Japanese I 3-0-3
Review and application of skills in listening, comprehension, and speaking; introduction to advanced grammar patterns; and acquisition of additional Japanese characters. Prerequisite: JAPN 1411 and 1412 with a grade of “C” or above.

JAPN 2312 Intermediate Japanese II 3-0-3
This course continues reading in contemporary Japanese writings and drill on syntax as needed for reading, composition, and conversation. Prerequisite: JAPN 2311 with a grade of “C” or above.

KORE Korean

KORE 1311 Beginning Korean I 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture.

KORE 1312 Beginning Korean II 3-0-3
Fundamental skills in listening, comprehension, speaking, reading, and writing. Includes basic vocabulary, grammatical structures, and culture. Prerequisite: KORE 1311 with a grade of “C” or above.

KORE 1411 Beginning Korean I 3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

KORE 1412 Beginning Korean II 3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: KORE 1411 with a grade of “C” or above.

KORE 2311 Intermediate Korean I 3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisite: KORE 1411 and 1412 with a grade of “C” or above.

KORE 2312 Intermediate Korean II 3-0-3
This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: KORE 2311 with a grade of “C” or above.

LGLA Paralegal/Legal Assistant

LGLA 1300 Elder Law 3-0-3
This course presents the fundamental concepts of elder law, including financial and estate planning, public benefits, health care, personal planning and protection, and consumer protection.

LGLA 1303 Legal Research 3-0-3
Identify and locate primary and secondary legal authority; and implement effective research strategies utilizing standard and electronic legal research tools with emphasis on the paralegal’s role and ethical considerations in legal research.

LGLA 1304 Military and National Security Legal Issues 3-0-3
This course presents the fundamentals of the United States military legal system includes an introduction to the Uniform Code of Military Justice, military regulations, and court decisions involved in military law with emphasis on emerging issues of national security laws including terrorism and national security crimes, national security detentions and trials, military tribunals, and clandestine operations.

LGLA 1307 Introduction to Law and the Legal Profession 3-0-3
This course provides an overview of the law and the legal professions. Topics include legal concepts, systems, and terminology; ethical obligations and regulations; professional trends and issues with particular emphasis on the paralegal.

LGLA 1317 Law Office Technology 2-2-3
This course introduces computer technology and its applications within the law office. Topics include the use of computer technology in the delivery of legal services with particular emphasis on the paralegal’s role. Lab included. Recommended co-requisite: ITCW 1401.

LGLA 1343 Bankruptcy 3-0-3
This course presents fundamental concepts of bankruptcy law and procedure with emphasis on the paralegal’s role. Topics include individual and business liquidation and reorganization.

LGLA 1345 Civil Litigation 3-0-3
This course presents fundamental concepts and procedures of civil litigation with emphasis on the paralegal’s role. Topics include pretrial, trial, and post trial phases of litigation.

LGLA 1349 Constitutional Law 3-0-3
This course provides an overview of the United States Constitution and its articles, amendments, and judicial interpretations. Topics include separation of powers, checks and balances, governmental structures and process, and individual rights in relation to government.

LGLA 1351 Contracts 3-0-3
This course presents fundamental concepts of contract law with emphasis on the paralegal’s role. Topics include formation, performance, and enforcement of contracts under the common law and the Uniform Commercial Code.

LGLA 1353 Wills, Trusts and Probate Administration 3-0-3
This course presents fundamental concepts of the law of wills, trusts, and probate administration with emphasis on the paralegal’s role. Recommended co-requisite: LGLA 1345.

LGLA 1355 Family Law 3-0-3
This course presents fundamental concepts of family law with emphasis on the paralegal’s role. Topics include formal and informal marriages, divorce, annulment, marital property, and the parent-child relationship.

LGLA 1357 Juvenile Law 3-0-3
This course presents fundamental concepts of juvenile law with emphasis on the paralegal’s role. Topics include differences between the criminal and juvenile justice systems, detention, adjudication and certification procedures, and related issues within the public education system. Prerequisites: LGLA 1307 and LGLA 1355.
LGLA 1391 Special Topics in Paralegal/ Legal Assistance 3-0-3
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

LGLA 2303 Torts and Personal Injury Law 3-0-3
This course presents fundamental concepts of tort law with emphasis on the paralegal’s role. Topics include intentional torts, negligence, and strict liability.

LGLA 2307 Law Office Management 3-0-3
Analyze the fundamental principles of management, administration and substantive systems of the law office; implement use of technology in the management and administration of the law office; and describe the role and ethical considerations of the paralegal in the law office. Recommended Pre-requisite: LGLA-1307.

LGLA 2309 Real Property 3-0-3
This course presents fundamental concepts of real property law with emphasis on the paralegal’s role. Topics include the nature of real property, rights and duties of ownership, land use, voluntary and involuntary conveyances, and the recording of and searching for real estate documents.

LGLA 2311 Business Organizations 3-0-3
This course presents basic concepts of business organizations with emphasis on the paralegal’s role. Topics include law of agency, sole proprietorships, forms of partnerships, corporations, and other emerging business entities. Recommended prerequisite LGLA 1351.

LGLA 2313 Criminal Law and Procedure 3-0-3
This course presents the fundamental concepts of criminal law from arrest to final disposition, principles of federal and state law, and the role of the paralegal in the preparation of pleadings and motions.

LGLA 2321 Military Law 3-0-3
This course presents an overview of the operation and management of military law as applied to paralegals including detailed coverage of Uniform Code of Military Justice (UCMJ), claims, military administrative law, legal assistance, and civil law as it applies to the military.

LGLA 2331 Advanced Legal Research and Writing 3-2-3
Standard and electronic research techniques and preparation of complex legal documents such as briefs, legal office memoranda, and citation forms with emphasis on the paralegal’s role.

LGLA 2433 Advanced Legal Document Preparation 3-3-4
Preparation of legal documents based on hypothetical fact situations drawn from various areas including real estate, family law, contracts, litigation, and business organizations (lab included).

LGLA 2435 Advanced Civil Litigation 3-3-4
Implementation of advanced civil litigation techniques with emphasis on the paralegal’s role. Builds upon skills required in prior civil litigation courses. Prerequisite: LGLA 1345

LGLA 2480 Cooperative Education - Paralegal/ Legal Assistant 0-22-4
Career-related activities encountered in the student’s area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.

LGLA 2488 Internship - Paralegal/ Legal Assistant 0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

MATH Mathematics

MATH 1314 College Algebra 3-0-3
A study of relations and functions, polynomial functions and equations of degree higher than two, exponential and logarithmic functions and equations, matrices, and determinants, sequences and series, the binomial theorem, and mathematical induction. This course meets the college core requirement and is recommended for students planning to transfer to bachelor’s degree programs. Prerequisites: DSMA 0303 or equivalent with a grade of “C” or better or acceptable evaluation scores.

MATH 1316 Plane Trigonometry 3-0-3
Topics include trigonometric functions, radian and degree measure, circular functions, solving right and oblique triangle problems, deriving and verifying trigonometric identities, inverse trigonometric functions, and solving conditional equations. Prerequisites: DSMA 0303 or equivalent with a grade of “C” or above or acceptable evaluation scores.

MATH 1324 Mathematics for Business and Social Sciences I (Finite Mathematics) 3-0-3
Topics from college algebra (linear equations, quadratic equations, functions and graphs, inequalities), mathematics of finance (simple and compound interest, annuities), linear programming, matrices, systems of linear equations, applications to management, economics, and business. Prerequisite: A score on the CTC approved assessment that is equivalent to a 270 on the THEA or DSMA 0303 with a grade of “C” or above.

MATH 1325 Mathematics for Business and Social Sciences II (Business Calculus) 3-0-3
Topics include elementary, differential and integral calculus that apply to business and economics. Prerequisites: MATH 1414 or MATH 1324 with a grade of “C” or above.

MATH 1332 Contemporary Mathematics I 3-0-3
Topics include sets, logic, number theory, geometric concepts, consumer finance, and an introduction to probability and statistics. Prerequisite: Minimum passing score on the CTC approved assessments or DSMA 0301 or equivalent with a grade of “C” or above. This course is for non-mathematics, non-science, and non-business students seeking mathematics credit for an AAS degree only. This course is not above the level of College Algebra and does not satisfy the CTC Core Curriculum mathematics (020) requirements for AA or AS degrees.
MATH 1342 Elementary Statistical Methods 3-0-3
Topics include the collecting, organizing, and displaying of data; measures of central tendency, measures of variation, histograms, probability; probability distributions, binomial distributions, normal distributions, linear regression and their applications. Prerequisites: A score on the CTC approved assessments that is equivalent to a 240 on the THEA, or DSMA 0301 with a minimum grade of “C”, or DSMA 0303 (Intermediate Algebra or equivalent)* with a minimum grade of “C”, or MATH 1332 with a Curriculum mathematics (020) requirements for AA or AS degrees. This course is not above the level of College Algebra and does not satisfy the CTC Core Curriculum mathematics (020) requirements for AA or AS degrees. This course will however satisfy the mathematics requirement of many of the Associate of Applied Science degrees offered at CTC. * DSMA 0307, DSMA 0310, DSMA 0316 and DSMA 0317.

MATH 1350 Fundamentals of Mathematics I 3-0-3
Concepts of sets, functions, number systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. This course is the first semester of a two-semester sequence designed for prospective elementary and middle school teachers. This course extends the foundational ideas of mathematics so that prospective elementary/middle school teachers have an explicit understanding of elementary analysis. Prerequisite: A grade of “C” or better in MATH 1414.

MATH 1351 Fundamentals of Mathematics II 3-0-3
Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This is the second semester of a two-semester sequence designed for prospective elementary and middle school teachers. This course extends the foundational ideas of mathematics so that prospective elementary/middle school teachers have an explicit understanding of these concepts. Prerequisite: For students seeking certification for K-4, MATH 1350 with a grade of “C” or better and MATH 1414 with a grade of “C” or better is required. For students seeking certification for 4-8, MATH-1350 with a grade of “C” or better and Math-1316 with a grade of “C” or better is required.

MATH 1414 College Algebra 4-0-4
A study of relations and functions, polynomial functions and equations of degree higher than two, exponential and logarithmic functions and equations, matrices, and determinants, sequences and series, the binomial theorem, and mathematical induction. This course meets the college core requirement and is recommended for students planning to transfer to bachelor’s degree programs. Graded exercises, guided practice, and graded quizzes will be completed in a non-lecture, lab environment requiring a minimum of one contact hour per week of activity. Prerequisites: DSMA 0303 or equivalent with a grade of “C” or better or acceptable evaluation scores.

MATH 2318 Linear Algebra 3-0-3
An introductory course in linear algebra covering vector spaces, linear transformations, matrices, systems of linear equations. Prerequisite: MATH 2414 with a grade of “C” or above.

MATH 2320 Differential Equations 3-0-3
First and second order differential equations and their applications. Laplace Transforms, Fourier Series, and their applications. Prerequisite: MATH 2414 with a grade of “C” or above.

MATH 2412 Precalculus Math 4-0-4
Topics include applications of algebra and trigonometry to the study of elementary functions and their graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions. Prerequisite: MATH 1414 with a grade of “C” or above. (A previous study of trigonometry is helpful but not required.)

MATH 2413 Calculus I 4-0-4
A first course in differential calculus with emphasis on the limit definitions of derivatives and integrals, applications of derivatives. Derivatives and integrals of the trigonometric functions and their inverses, the hyperbolic functions, exponential, logarithmic, and inverse functions. Prerequisites: MATH 2412 with a grade of “C” or above.

MATH 2414 Calculus II 4-0-4
A second course in differential and integral calculus. Topics include applications of integration, techniques of integration, infinite series, conics, parametric equations, polar coordinates, vectors, and the geometry of spaces. Prerequisites: MATH 2412 and MATH 2413 with a grade of “C” or above.

MATH 2415 Calculus III 4-0-4
A third course in differential and integral calculus. Topics include vector-valued functions, functions of several variables, multiple integrations, and vector analysis. Prerequisites: MATH 2414 with a grade of “C” or above.

MBST Maintenance Technology see also CBFM, CBPT, ELPT, PFPB and WDWK

MBST 1507 Masonry I 2-7-5
Introduction to masonry including safety, tools and equipment, masonry materials, theory, terminology, federal and state guidelines, building plans, mortar mixing and spreading. Emphasis on the fundamentals of laying bricks and block. Prerequisite: CRPT 1429.

MDCA Office Technology see also HIT, MRMT, POFI, POFM and POFT

MDCA 1409 Anatomy and Physiology for Medical Assistants 3-4-4
Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology.

MGMT Military Contract Courses (Air Force Reserve)

MGMT 2172 Introduction to Management Theory 1-0-1
This course examines management theories and also covers management functions, problem solving, and decision making. Air Force Reserve Contract Only

MGMT 2173 Leadership Communications in Management 1-0-1
The major objective of the course is to improve professional managerial capabilities through the enhancement of supervisor-worker communications skills. Air Force Reserve Contract Only
MRKG Business Administration and Management see also BMGT, BUSG and HRPO

MRKG 1302 Principles of Retailing 3-0-3
Introduction to the retailing environment and its relationship to consumer demographics, trends, and traditional/nontraditional retailing markets. The employment of retailing techniques and the factors that influence modern retailing.

MRKG 1311 Principles of Marketing 3-0-3
Introduction to basic marketing functions; identification of consumer and organizational needs; explanation of economic, psychological, sociological, and global issues; and description and analysis of the importance of marketing research.

MRKG 2333 Principles of Selling 3-0-3
Overview of the selling process. Identification of the elements of the communication process between buyers and sellers. Examination of the legal and ethical issues of organizations which affect salespeople.

MRMT Office Technology see also HITT, MDCA, POFI, POFM, and POFT

MRMT 1307 Medical Transcription I 2-4-3
Fundamentals of medical transcription with hands-on experience in transcribing physician dictation including basic reports such as history and physicals, discharge summaries, consultations, operative reports, and other medical reports. Utilizes transcribing and information processing equipment compatible with industry standards. Designed to develop speed and accuracy. Recommended prerequisite: HITT 1305 or concurrent enrollment. Keyboarding proficiency and written communication skills recommended.

MRMT 2166 Practicum - Medical Transcription/Transcriptionist 0-8-1
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Student will spend 15-20 hours per week working with practicum employer. Prerequisite: completion of all courses in the certificate and Departmental approval.

MRMT 2333 Medical Transcription II 2-4-3
Transcription of advanced medical reports with increasing speed and accuracy including history and physicals, consultations, discharge summaries, operative reports, and other medical reports. Prerequisite: MRMT 1307.

MRMT 2357 Advanced Medical Transcription 2-4-3
Practical application of highly developed medical transcription skills. Includes use of sophisticated transcription equipment and medical resources to produce correct medical documents from their inception as dictated materials to their inclusion in the patient health record. Prerequisite: MRMT 2333 or Departmental approval.

MT- Military Contract Courses

BMGT 1177 Critical and Creative Thinking 1-0-1
This course is designed to provide the students with the skills and knowledge required to develop structured approaches to critical/creative thinking and problem solving in the workplace.

MTBC 1170 Conducting Briefings (NCO Lead SUMT/ASMC) (Europe) 1-0-1
Teaches how to prepare and conduct military style information briefings. Special attention is given to organizing material, to developing effective delivery skills and the use of audiovisual aids to enhance briefings.

MTBC 1171 Effective Writing I (NCO Lead SUMT/ASMC) (Europe) 1-0-1
The course explains the communications process; describes the writing process; and covers identifying, analyzing and constructing effective sentences and paragraphs.

MTBC 1173 Effective Writing II (NCO Lead SUMT/ASMC) (Europe) 1-0-1
Building on the student’s basic knowledge of grammar and writing techniques, this course concentrates on improving writing skills through the use of practical exercises.

MTBC 1370 Briefing Techniques (Fort Stewart/Hunter) 3-0-3
A course designed to provide the manager with the capability to employ proper briefing methods and to develop the skills required to produce briefing aids to include charts, graphs, posters, slides, filmstrips, transparencies, opaque, and other media.

MTCS 1173 Introduction to Computers (NCO Lead MISP/SUMT) 1-0-1
A beginner course designed to help students with little or no computer experience understand computer hardware and software, computer terminology, and the Windows desktop operating system. This course should be followed up with other computer courses.

MTCS 1174 Academic Research Using the Internet (NCO Lead MISP/SUMT/ASMC) 1-0-1
This course is designed to help students conduct research online by teaching them a variety of online search strategies, how to evaluate sources, the ethical responsibility associated with plagiarism and how to avoid it, using online library databases to conduct research, and creating and using the Modern Language Association (MLA) AND/OR THE American Psychological Association (APA) DOCUMENTATION STYLES IN Microsoft Word. Students should be able to demonstrate basic computer, internet, and word processing skills. MTCS 1173 Introduction to computers, MTMC 1170 Internet, MTCS 1175 Basic Keyboarding Using the Computer, and MTMC 1172 Word Processing are recommended, but not required.

MTCS 1175 Basic Keyboarding for Computers 1-0-1
This course is designed to teach students the basics of ergonomics, proofreading, basic correspondence and touch typing using a personal computer. Students should be able to type a minimum of 25 WPM to successfully complete the course. Prerequisite: Student must be able to demonstrate basic computer skills or have successfully completed MTCS 1173 Introduction to Computers.

MTES 1170 Professional Ethics (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course examines current definitions of ethics and provides opportunities for group and personal analysis of ethical issues. Participants will gain experience in making ethically-related decisions through exercises with case studies. The lecture material and group exercises will increase participant awareness in the principles involved in ethical decision making.

MTES 1171 Professional Values (NCO Lead SUMT/ASMC) 1-0-1
This course is a study of the Seven Army values and their application to military and personal life. It is designed to acquaint the student with the Army Seven Values, distinguish between professional values and personal values, and understand how they apply to their unit, community and nation.

Central Texas College C&I Campuses Catalog 2010-2011 - Course Descriptions 85
MTHO 1170 Historical Principles of War (NCO Lead SUMT/ASMC) 1-0-1
This course provides the student with an understanding of the nine principles of war with specific battle examples of each; discusses their application to the history of the United States military; enables the student to apply the military concepts and principles used in past engagements to that of the present and future missions of the military.

MTHO 1171 Middle East Culture (Europe Military Science Management) 1-0-1
To provide soldiers with a general knowledge of the culture of the people who inhabit the Middle East. This course will provide a brief overview of the history and culture to include: governmental structure, politics, influence of nomadic tribes, religious influence, heritage, family roles, arts, education, business wealth, poverty, jobs, language, health and medicine. Food, drink, dress, etiquette, holidays, organizations, and media are also covered. (Military Science Management-AAS)

MTHO 1370 Historical Principles of War (Europe Military Science Management) 3-0-3
This course focuses on the history of the United States Military and the professional values and ethics of the military profession. Strategies and tactics used by the United States Military in selected engagements throughout its history will be covered. (Military Science Management-AAS)

MTHR 1170 Preparing Efficiency Reports (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course is designed to teach the student aspects of the NCO Evaluation Reporting System (NCOERS) to include its development, functions, purpose, forms, preparation of forms, and proper processing of forms. The student will learn how to record counseling sessions; prepare and process the efficiency report; recognize prohibited comments on the efficiency report; and become familiar with the various avenues of appeal.

MTHR 1171 Performance Oriented Training (NCO Lead SUMT/ASMC) 1-0-1
This course is designed to provide the student with a basic knowledge and understanding of the rationale, methods, techniques, and procedures for determining training needs; the selection of resources to enhance training effectiveness; and how to prepare, present and evaluate training.

MTHR 1172 Prevention of Sexual Harassment (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course provides students with an overview of sexual harassment including definition, cause, impact, and suggested approaches for dealing with sexual harassment problems when they arise in the workplace. It examines ethical guidelines and actions supervisors can take to avoid sexual harassment. It also includes how to objectively handle complaints.

MTHR 1173 Counseling Practicum Technique (NCO Lead SUMT/ASMC) (Europe) 1-0-1
Examines the counseling role of supervisors. Emphasizes speaking, listening, and writing skills through simulated counseling situations and the preparation of the leadership counseling forms. The course reviews leadership principles and positive counseling techniques by analyzing various case studies.

MTHR 1174 Time Management (NCO Lead SUMT/ASMC) (Europe) 1-0-1
Teaches efficient use of time management and organizational skills. Supervisors learn to eliminate time wasters, increase productivity, better distribute work and schedule tasks more efficiently.

MTHR 1175 Career Management (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course provides students with the basic management techniques for career management. It will assist individuals in building a base of information for career planning, training and professional development and establishing and working with career goals for themselves and their subordinates.

MTHR 1176 Stress Management (NCO Lead SUMT/ASMC) 1-0-1
This course explores the relationship between stress and work performance. Provides mechanisms that will enable participants to manage personal stress constructively, help subordinates cope with stress, and reduce stress in the workplace. Emphasis on reducing stress levels to achieve high performance in organizations.

MTHR 1373 Performance Counseling (Fort Stewart/ Hunter) 3-0-3
Systematic study of major theories of personnel counseling with supervised exercises in role-playing utilizing these approaches.

MTIR 1170 Interpersonal Relationships (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course provides the student with the tools to become more understanding of themselves and others. It presents techniques to better deal with difficult people. It defines the basic differences between people in an attempt to create a better understanding of those with whom we work. It reviews the basic model for dealing with these differences.

MTLE 1170 Crime Prevention 1-0-1
This course will provide a basic understanding of crime prevention. It will also cover the historical background, fundamental concepts, and techniques for the deterrence and prevention of crime.

MTLM 1170 Managerial Planning (NCO Lead SUMT/ASMC) (Europe) 1-0-1
Develops complex skills in setting goals, planning and coordinating objectives, and allocating resources. Managerial styles and models are applied to simulated and real problems.

MTLM 1171 Managing Resources (NCO Lead SUMT/ASMC) (Europe) 1-0-1
Working with management problems such as inventory control, planning the efficient use of available resources and creative problem-solving within the limitations of budget constraints.

MTMM 1170 Increasing Work Site Efficiency (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course is designed to assist supervisors to increase knowledge about performance, job satisfaction, and efficiency of oneself and subordinates at the work site. The course will suggest and demonstrate a systematic process to organize work methods and work environments in order to accomplish more work in less time using fewer resources. The course provides techniques for increasing productivity at the work site.

MTMM 1171 Problem Solving (NCO Lead SUMT/ASMC) (Europe) 1-0-1
This course presents an effective problem-solving and decision making model for management settings and offers hands-on practice in using problem solving techniques. This course includes defining, analyzing, and solving management problems. It is designed to present a logical approach to problem solving, and step-by-step process for the achievement of desired results.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTMC 1170</td>
<td>Styles of Leadership (NCO Lead SUMT/ASMC) (Europe)</td>
<td>1-0-1</td>
<td>A study of the current Army thoughts on leadership with hands-on practice in developing and practicing a leadership style within the framework of the military organization.</td>
</tr>
<tr>
<td>MTMC 1171</td>
<td>Improve Work Performance (NCO Lead SUMT/ASMC) (Europe)</td>
<td>1-0-1</td>
<td>This course is designed to provide students with the knowledge and tools needed to define desired work performance and design/implement appropriate strategies to improve performance. Topics include a behavioral approach to management, performance standards, motivation, leadership, communication, and worker training. Participants will learn behavioral theories and complete practical exercises that provide experience leading to improved work performance.</td>
</tr>
<tr>
<td>MTPF 1170</td>
<td>Personal Financial Management I (NCO Lead SUMT/ASMC) (Europe)</td>
<td>1-0-1</td>
<td>This course provides students with the basic management techniques for planning personal financial affairs and developing a base of information to use during the counseling of subordinates, including budgetary controls, family budgets, financial concepts, credit, debt, and risk management, bank accounts, borrowing, investing, and insurance.</td>
</tr>
<tr>
<td>MTPF 1171</td>
<td>Personal Financial Management II (NCO Lead SUMT/ASMC) (Europe)</td>
<td>1-0-1</td>
<td>This course provides students with the basic management techniques for planning personal financial affairs and developing a base of information to use during the counseling of subordinates, including investment concepts, mutual funds, IRAs, retirement, and estate planning. Prerequisite: MTPF 1170.</td>
</tr>
<tr>
<td>MTMC NCO Lead Microcomputer Courses</td>
<td></td>
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</tr>
<tr>
<td>MTMC 1170</td>
<td>Internet (NCO Lead MISP/ASMC)</td>
<td>1-0-1</td>
<td>This is an introductory course designed to teach students about the World Wide Web, using search engines, information security, e-commerce, e-mail, Ethernet and wireless networks, and installing a home network. Prerequisite: Student should be able to demonstrate basic computer skills. MTCS 1173 Introduction to Computers and MTCS 1175 Basic Keyboarding Using the Computer are recommended, but not required.</td>
</tr>
<tr>
<td>MTMC 1171</td>
<td>Spreadsheet Applications (NCO Lead MISP/ASMC)</td>
<td>1-0-1</td>
<td>A basic course of instruction to Microsoft Excel, a spreadsheet application. Learning objectives include: Working with formulas and functions, formatting worksheets, and linking worksheets.</td>
</tr>
<tr>
<td>MTMC 1172</td>
<td>Word Processing Applications (NCO Lead MISP/ASMC)</td>
<td>1-0-1</td>
<td>A basic course of instruction with Microsoft Word. The class will emphasize creating new documents, working with autotext, creating styles, use of proofreading tools, copying, cutting and pasting. The course will also cover manipulating the screen display, creating sections &amp; columns, using pictures with text, and creating headers &amp; footers. Pre-requisite: Basic knowledge of Windows required.</td>
</tr>
<tr>
<td>MTMC 1173</td>
<td>Data Base Applications (NCO Lead MISP/ASMC)</td>
<td>1-0-1</td>
<td>This is an introductory course for Microsoft Access, a database management software program, designed to help students create and modify simple databases, filter and sort records, format a datasheet, create and modify a table and its fields, join related tables, create forms for data entry, and create reports and queries to analyze data. Prerequisite: Students should be able to demonstrate basic computer and word processing skills. MTCS 1173 Introduction to Computers, MTCS 1175 Basic keyboarding Using the Computer, MTMC 1172 Word processing, and MTMC 1171 Spreadsheet Applications are recommended, but not required.</td>
</tr>
<tr>
<td>MTMC 1174</td>
<td>Microsoft Outlook (NCO Lead MISP)</td>
<td>1-0-1</td>
<td>A course of instruction to Microsoft Outlook, a desktop management program that helps you organize and share information on your desktop and communicate with others. You can use Outlook to manage your intranet and Internet e-mail, appointments, contacts, and tasks; and to make notes and journal entries.</td>
</tr>
<tr>
<td>MTMC 1175</td>
<td>Web Page Development I (NCO Lead MISP)</td>
<td>1-0-1</td>
<td>This is an introductory course for SharePoint Designer, a web authoring program, designed to teach students how to create, modify, and format simple web pages for personal or professional use. Prerequisite: MTMC 1172 Word processing is required. Students should also be able to demonstrate basic computer and internet skills. MTCS 1175 Basic Keyboarding Using the Computer and MTMC 1170 Internet are recommended, but not required.</td>
</tr>
<tr>
<td>MTMC 1176</td>
<td>Microsoft Power Point (NCO Lead MISP)</td>
<td>1-0-1</td>
<td>This is an introductory course for Microsoft PowerPoint, a presentation software program, designed to teach students how to create, modify, and format custom electronic presentations for personal school, or professional use. Students will learn presentation basics and work with images, sounds, movie clips, and custom animation effects. Students should be able to demonstrate basic computer skills. Prerequisite: MTCS 1173 Introduction to Computers, MTMC 1170 Internet, MTCS 1175 Basic Keyboarding Using the Computer, and MTMC 1172 Word Processing are recommended, but not required.</td>
</tr>
<tr>
<td>MTMC 1177</td>
<td>Desktop Publishing Application (NCO Lead MISP)</td>
<td>1-0-1</td>
<td>This is an introductory course for Microsoft Publisher, a desktop publishing software program, designed to teach students how to create personal or professional looking publications such as letterhead, envelopes, advertisements, business cards, flyers, postcards, and more. Prerequisite: Students should be able to demonstrate basic computer and word processing skills. MTCS 1173 Introduction to computers, MTMC 1170 Internet, MTCS 1175 Basic Keyboarding Using the Computer and MTMC 1172 Word Processing are recommended but not required.</td>
</tr>
<tr>
<td>MTMC 2171</td>
<td>Microsoft Excel Advanced (NCO Lead MISP)</td>
<td>1-0-1</td>
<td>This is an advanced course for Microsoft Excel, a spreadsheet software program, designed to teach students advanced formulas and functions, how to create and modify Pivot Tables, analyze and organize data, work with Excel on the web, import external data, and work with simple macros and other objects. Prerequisite: Students should be able to demonstrate basic computer, internet, and word processing skills. MTCS 1173 Introduction to Computers, MTMC 1170 Internet, MTCS 1175 Basic Keyboarding Using the Computer, MTMC 1172 Word Processing, and MTMC 1171 Spreadsheet applications are recommended, but not required.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>MTMC 2172</td>
<td>Microsoft Word Advanced (NCO Lead MISP)</td>
<td>1-0-1</td>
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<tr>
<td>MTMC 2173</td>
<td>Microsoft Power Point Advanced (NCO Lead MISP)</td>
<td>1-0-1</td>
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<tr>
<td>MTMC 2175</td>
<td>Web Page Development II (NCO Lead MISP)</td>
<td>1-0-1</td>
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<tr>
<td>MTMC 2176</td>
<td>Microsoft Access Advanced Topics (NCO Lead MISP)</td>
<td>1-0-1</td>
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<tr>
<td>MTMS 1170</td>
<td>Military Science I</td>
<td>1-0-1</td>
<td></td>
</tr>
<tr>
<td>MTMS 1171</td>
<td>Psychology of Personal Adjustment I</td>
<td>1-0-1</td>
<td></td>
</tr>
<tr>
<td>MTMS 1172</td>
<td>Psychology of Personal Adjustment II</td>
<td>1-0-1</td>
<td></td>
</tr>
<tr>
<td>MTMS 1173</td>
<td>Psychology of Personal Adjustment III</td>
<td>1-0-1</td>
<td></td>
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<tr>
<td>MTMS 1174</td>
<td>Terrorism in the Middle East</td>
<td>1-0-1</td>
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<tr>
<td>MTMS 1175</td>
<td>Personnel Counseling</td>
<td>2-0-2</td>
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<tr>
<td>MTMS 1176</td>
<td>Military Science Management</td>
<td>2-0-2</td>
<td></td>
</tr>
<tr>
<td>MTMS 1177</td>
<td>Military Science II</td>
<td>2-0-2</td>
<td></td>
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<tr>
<td>MTMS 1178</td>
<td>Job Performance and Motivation</td>
<td>2-0-2</td>
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<tr>
<td>MTMS 1179</td>
<td>Professionalism and Responsibility</td>
<td>2-0-2</td>
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<tr>
<td>MTMS 1180</td>
<td>Fundamentals of Leadership</td>
<td>2-0-2</td>
<td></td>
</tr>
<tr>
<td>MTMS 1181</td>
<td>Counseling</td>
<td>2-0-2</td>
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</table>

This is an advanced course for Microsoft Word, a word processing software program, designed to teach students about mail merge, collaboration tools working with long documents, forms, templates, and macros. Prerequisite: Student should be able to demonstrate basic computer, internet and word processing skills. MTCS 1173 Introduction to computers, MTMC 1170 Internet, MTCS 1175 Basic Keyboarding using the computer, and MTMC 1172 Word Processing are recommended, but not required.

This course advances the principles learned in Microsoft Power Point MTMC 1176 by exploring more features of Power Point including graphics, portability, design and presentations. MTMC 1176 is recommended but not required.

This is an advanced course for SharePoint Designer, a web authoring program, designed to teach students to create simple web pages using frames, basic Hypertext Markup Language (HTML) codes, online forms, and publish and manage web pages. Prerequisite: Student must be able to demonstrate basic computer, internet, and word processing skills. MTCS 1173 Introduction to Computers, MTMC 1170 Internet, MTCS 1175 Microsoft FrontPage are recommended, but not required.

This is an advanced course for Microsoft Access, a database management software program, designed to teach students how to create advanced queries, modify form controls and properties, modify report controls and properties, create calculating fields, and create and modify simple macros. Prerequisites: Students must be able to demonstrate basic computer, internet and word processing skills. MTCS 1173 Introduction to Computers, MTMC 1170 Internet, MTCS 1175 Basic Keyboarding using the computer, MTMC 1172 Word processing, MTMC 1171 spreadsheet Applications, and MTMC 1173 Database Applications are recommended, but not required.

A study of first-line to mid-level supervision. The course reviews procedures in the context of the standard supervisory roles of directing, problem solving, decision-making, and personal relations at the primary leader level.

The course is designed to meet the needs of Soldiers, Sailors, Marines and Airmen and their families before, during, and after deployments. Students will be able to demonstrate the skills of problem solving, goal setting, and conflict resolution. Instruction to take place in either a classroom or on-line setting with 16 hours of instruction.

The course is designed to meet the needs of Soldiers, Sailors, Marines and Airmen and their families before, during, and after deployments. Students will be able to demonstrate the skills of problem solving, goal setting, and conflict resolution. Instruction to take place in either a classroom or on-line setting with 16 hours of instruction.
This course will examine critical elements of leadership and the various aspects of inter-relationships between people in a combat environment or contingency operation. This course will look at different forms of motivation, communications, group interaction and leadership. Also, it addresses itself to the development of individual skills so as to enable one to operate independently and make critical decisions if necessary. The course will incorporate various disciplines, specifically human relations, history and sociology. This will ensure the material is relevant to current events by interweaving past examples that show the dynamic aspects of leadership. The course will use various resources, current films, guest speakers, and current events.

MTMS 1372 Terrorism, Looking for Answers (Fort Lewis) 3-0-3
This course will examine various elements of terrorism and is designed to explore the origins, characteristics and current trends in worldwide terrorism. The course will look at the differences between political and fundamentalist terrorist activity and their targets. The class will examine the key characteristics or traits of known terrorist groups and the psychological aspects of the suicide bomber. The course will also explore the relationship of terrorism to international relations and how the future of military action may be changed. Finally, the class will examine terrorism and organized crime in small contingency areas.

MTMS 2270 Professional Development of the Manager 2-0-2
Course explores effective training of junior-level leaders. Studies the tools of proper delegation of tasks and assistance to subordinates in problem solving. Emphasis will be placed on the effectiveness of active and passive styles of leadership in reinforcing good performance and motivating towards excellence.

MTMS 2271 Military Science III 2-0-2
An applied management course at the advanced leadership level, concentrating on the mid-level management skills required to employ assets at higher levels of command. Course covers situational analysis, staffing procedures, communications, planning and controlling operations, and evaluations.

MTMS 2272 Management and Learning Strategies 2-0-2
A course for leaders who want to explore further into the arena of training in organizations, including needs assessment, instruction techniques, and evaluation procedures. Also addressed training for career changes, cross training, and the implications of fair labor standards.

MTMS 2370 Advanced Leadership 3-0-3
Advanced management study with an in-depth look at the differences and similarities of leadership and management. This course includes all elements of the management function, leadership styles, and communication.

MTMS 2371 Management Problems 3-0-3
Case study approach in practical application of management theory to the everyday problems of managers. Study groups work out their own solutions and exchange ideas with other groups in presentation and critique forums.

MTMS 2372 Ethics in Management 3-0-3
The purpose of this course is to study the major ethics theories and their relationship to business management. The course provides actual case studies in which ethical principles are used in solving today’s business management problems.

MUSI Music

MUSI 1306 Music Appreciation 3-0-3
This course is designed for the general college student. It emphasizes intelligent, directed listening to music with attention focused on the materials, the forms and the periods and styles of music. Course work will also cover the relation of music to other areas of cultural development. Prerequisite: None

MUSI 1307 Music Literature 3-0-3
An in-depth study of the music, literature and history from the 15th through the 20th centuries. Emphasis will be placed on principle forms and composers of the literature of those historical periods. This course is designed for music majors, but is also appropriate for any student who has prior musical knowledge. Prerequisite: None

OACS Military Contract Courses (Continental Campus)

OACS 1190 Computer Operating Systems 1-0-1
A study of microprocessor architecture, file creation/deletion, data entry and manipulation, automatic file execution, configuration, and directory commands.

OACS 1191 Word Processing Applications 1-0-1
An overview of the production of documents, tables, and graphics.

OACS 1192 Data Base Applications 1-0-1
Introduction to database theory and the practical applications of a database

OACS 1193 Spreadsheet Applications 1-0-1
Skill development in the use of a spreadsheet software package. Topics include worksheet creation and manipulation functions, templates, macro programming database functions, data-table features, and graphics.

OACS 1194 Integrated Software Applications 1-0-1
Continued study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software.

OACS 1195 Presentation Media Applications 1-0-1
Instruction in the utilization of presentation software to produce multimedia presentations. Graphics, text, sound, animation and/or video may be used in presentation development.

OACS 1196 Desktop Publishing Applications 1-0-1
In-depth coverage of desktop publishing terminology, text editing, and use of design principles to create publishing material using word processing desktop publishing features. Emphasis on layout techniques, graphics, and multiple page displays.

PASH Pashtu

PASH 1411 Beginning Pashtu I 3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

PASH 1412 Beginning Pashtu II 3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: PASH 1411 with a grade of “C” or above.
PHIL 1317 History of Religions II 3-0-3
In a historical survey of major religions, this course focuses on the history and literature of Early Christianity during the New Testament period emphasizing its origin, development, and expansion of religious institutions and ideas.

PHIL 2303 Introduction to Logic 3-0-3
Nature and methods of correct reasoning, deductive proof, inductive proof, fallacies, and arguments.

PHIL 2306 Introduction to Ethics 3-0-3
Study of basic principles of the normal life, with critical examination of traditional and current theories of the nature of goodness, happiness, duty, and freedom.

PHIL 2307 Introduction to Social and Political Philosophy 3-0-3
Critical examination of the major philosophical theories concerning the organization of societies and the role and scope of government.

PHYS Physical Science

PHYS 1305 Elementary Physics I 3-0-3
A survey of the fundamental principles of physics designed to acquaint students with the basic concepts of classical and modern physics, which are the foundation of everyday phenomena. This course is only available, under contract, to the Navy Pace Campus.

PHYS 1311 Survey of Astronomy 3-0-3
A non-mathematical approach to the solar system. Beginnings of astronomy, motions of celestial bodies, members of the solar system, atoms and light are studied. Only offered as a telecourse.

PHYS 1401 College Physics I 3-3-4
This is the first part of a one-year algebra-based physics course. This course includes the fundamentals of classical Mechanics, Thermal Physics, and Wave Motion. The student will be introduced to the basic principles of linear and rotational Kinematics and Dynamics, Newton’s laws of motion, work and Energy, Impulse and Momentum, Elasticity, Simple Harmonic Motion, Fluids, Temperature and Heat, The Transfer of Heat, The Ideal Gas Laws and Kinetic Theory, Thermodynamics, Waves and Sound, Linear Superposition and Interference Phenomena. This is a required course for students who plan to major in Medicine, Dentistry, Veterinary Science, Pharmacy, and all other Biological or Health science disciplines. Methods of instruction include practical laboratory experiments, application of modern technology, and guided discussions. The course includes three hours of lecture and three hours of laboratory per week, usually offered in the fall and summer semesters. Prerequisite: MATH 1414 or concurrent enrollment. Co-requisite: PHYX 1401.
PHYS 1402 College Physics II 3-3-4
This is the second part of a one-year algebra-based physics course. This course includes the basic principles of Electricity and Magnetism, Light and Optics, and modern advances in physics, namely, Relativity, Atomic and Nuclear Physics. The topics covered in this course are as follows: Electrostatics (Electric forces, Electric fields and Electric Potentials); Electric Circuits, (DC and AC); Magnetic Forces and Magnetic Field; Electromagnetic Induction and Electromagnetic Waves; Light (Geometrical and Wave Optics); Special Relativity; The Nature of the Atom; Nuclear Physics and Radioactivity. This is a required course for students who plan to major in any Health science disciplines. Methods of instruction include practical laboratory experiments, application of modern technology, and guided discussions. The course includes three hours of lecture and three hours of laboratory per week, usually offered in the spring semester only. Prerequisite: PHYS 1401 or consent of the Department Chair and Instructor. Co-requisite: PHYX 1402.

PHYS 1405 Elementary Physics I 3-3-4
A survey of the fundamental principles of physics designed to acquaint students with the basic concepts of classical and modern physics which are the foundation of everyday phenomena. Offered at C&I locations only.

PHYS 1415 Physical Science I 3-3-4
This is an introductory course on Physical Science for the first year non-science majors; strongly recommended for students in teacher training program. It is designed to provide skills needed for success in other science classes and for improving science literacy. The course emphasizes the basic concepts in Physics, Chemistry, Earth Science, and Astronomy. Methods of instruction include practical laboratory experiments, application of modern technology, and guided discussions. The course is structured around the lecture-lab format (i.e., depending on the topic, it may be necessary to do a hands-on activity before lecturing on the concept). The class meets twice a week, three hours per day. Prerequisite: None. Co-requisite: PHYX 1415.

POFI Office Technology see also HITT, MDCA, MRMT, POFM and POFT

POFI 1301 Computer Applications I 2-4-3
Overview of computer office applications including current terminology and technology. Introduction to computer hardware, software applications, and procedures.

POFI 1349 Spreadsheets 2-4-3
Spreadsheet software for business applications. Prerequisite: An introduction to a computer application course or equivalent recommended.

POFI 2301 Word Processing 2-4-3
Word processing software focusing on business applications. Prerequisite: Keyboarding proficiency recommended.

POFI 2331 Desktop Publishing 2-4-3
In-depth coverage of desktop publishing terminology, text editing, and use of design principles. Emphasis on layout techniques, graphics, multiple page displays, and business applications. Prerequisite: Keyboarding and word processing skills or concurrent enrollment in word processing course recommended.

POFI 2340 Advanced Word Processing 2-4-3
Advanced techniques in merging, macros, graphics, and desktop publishing. Includes extensive formatting for technical documents. Emphasis on business applications. Prerequisites: Keyboarding and word processing skills recommended.

POFI 2386 Internship - Business/Office Automation/Technology/Data Entry 0-9-3
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of first year Office Technology courses recommended. Departmental approval required.

POFI 2387 Internship - Business/Office Automation/Technology/Data Entry 0-9-3
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of second year Office Technology courses recommended. Departmental approval required.

POFM Office Technology see also HITT, MDCA, MRMT, POFI and POFT

POFM 1300 Medical Coding Basics 2-4-3
Presentation and application of basic coding rules, principles, guidelines, and conventions utilizing various coding systems. Prerequisite: HITT 1305, HITT 1303 or Department consent.

POFM 1302 Medical Software Applications 2-4-3
Medical software applications for the management and operation of health care information systems. Keyboarding proficiency recommended.

POFM 1317 Medical Administrative Support 2-4-3
Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing, collecting, and third party reimbursement.

POFM 1327 Medical Insurance 2-4-3
Survey of medical insurance including the life cycle of various claim forms, terminology, litigation, patient relations, and ethical issues. Prerequisite: Medical Terminology, Keyboarding and Computer Skills or Department consent.

POFM 2386 Internship - Medical Administrative/Executive Assistant and Medical Secretary 0-9-3
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Departmental approval required upon completion of certificate requirements.

POFM 2387 Internship - Medical Administrative/Executive Assistant and Medical Secretary 0-9-3
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Departmental approval required upon completion of certificate requirements.

POFT Office Technology see also HITT, MDCA, MRMT, POFI and POFT

POFT 1207 Proofreading and Editing 2-1-2
Instruction in proofreading and editing skills necessary to assure accuracy in business documents.

Central Texas College C&I Campuses Catalog 2010-2011 - Course Descriptions 91
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POFT 1301</td>
<td>Business English</td>
<td>2-4-3</td>
<td>Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. Keyboarding skills recommended.</td>
</tr>
<tr>
<td>POFT 1309</td>
<td>Administrative Office Procedures I</td>
<td>2-4-3</td>
<td>Study of current office procedures, duties, and responsibilities applicable to an office environment. Keyboarding skills or current enrollment in a keyboarding course required.</td>
</tr>
<tr>
<td>POFT 1319</td>
<td>Records and Information Management I</td>
<td>2-4-3</td>
<td>Introduction to basic records and information management, including manual and electronic filing. Keyboarding skills or other computer literacy course recommended.</td>
</tr>
<tr>
<td>POFT 1325</td>
<td>Business Math and Machine Applications</td>
<td>2-4-3</td>
<td>Business math problem-solving skills using office technology.</td>
</tr>
<tr>
<td>POFT 1329</td>
<td>Beginning Keyboarding</td>
<td>2-4-3</td>
<td>Skill development in keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents.</td>
</tr>
<tr>
<td>POFT 1349</td>
<td>Administrative Office Procedures II</td>
<td>2-4-3</td>
<td>In-depth coverage of office applications with emphasis on decision making, goal setting, management theories, and critical thinking. Prerequisite: POFT 1301, POFT 1329 and concurrent enrollment in or completion of second year Office Technology courses recommended.</td>
</tr>
<tr>
<td>POFT 2312</td>
<td>Business Correspondence and Communication</td>
<td>2-4-3</td>
<td>Development of writing and presentation skills to produce effective business communications. Prerequisites: Keyboarding and document formatting skills recommended. POFT 1301 recommended</td>
</tr>
<tr>
<td>POFT 2333</td>
<td>Advanced Keyboarding</td>
<td>2-4-3</td>
<td>A continuation of keyboarding skills in advanced document formatting emphasizing speed, accuracy, and decision-making. Keyboarding and word processing skills recommended.</td>
</tr>
<tr>
<td>POFT 2386</td>
<td>Internship - Administrative Assistant and Secretarial Science, General</td>
<td>0-9-3</td>
<td>A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of first year Office Technology courses recommended. Departmental approval required.</td>
</tr>
<tr>
<td>POFT 2387</td>
<td>Internship - Administrative Assistant and Secretarial Science, General</td>
<td>0-9-3</td>
<td>A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of second year Office Technology courses recommended. Departmental approval required.</td>
</tr>
<tr>
<td>POFT 2388</td>
<td>Internship - General Office Occupations and Clerical Services</td>
<td>0-9-3</td>
<td>A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Completion of course requires 144 contact hours as well as strong keyboarding/word processing proficiency and written communication skills. Concurrent enrollment in or completion of first year Office Technology courses recommended. Departmental approval required.</td>
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</table>

**PORT Portuguese**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PORT 1411</td>
<td>Beginning Portuguese I</td>
<td>3-2-4</td>
<td>This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.</td>
</tr>
<tr>
<td>PORT 1412</td>
<td>Beginning Portuguese II</td>
<td>3-2-4</td>
<td>Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: PORT 1411 with a grade of &quot;C&quot; or above.</td>
</tr>
<tr>
<td>PORT 2311</td>
<td>Intermediate Portuguese I</td>
<td>3-0-3</td>
<td>This course includes grammar review, composition, and reading with conversation based on material read. Prerequisite: PORT 1411 and 1412 with a grade of “C” or above.</td>
</tr>
<tr>
<td>PORT 2312</td>
<td>Intermediate Portuguese II</td>
<td>3-0-3</td>
<td>This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: PORT 2311 with a grade of “C” or above.</td>
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**PSTR Hospitality Management**

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<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>PSTR 1301</td>
<td>Fundamentals of Baking</td>
<td>2-4-3</td>
<td>Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the use of proper flours.</td>
</tr>
<tr>
<td>PSTR 1302</td>
<td>Cake Baking and Production</td>
<td>2-4-3</td>
<td>Principles and techniques of cake production. Emphasizes ingredient identification, functions, mixing, and baking. Prerequisite: PSTR 1301.</td>
</tr>
<tr>
<td>PSTR 1306</td>
<td>Cake Decorating I</td>
<td>2-4-3</td>
<td>Introduction to skills, concepts and techniques of cake decorating.</td>
</tr>
<tr>
<td>PSTR 2307</td>
<td>Cake Decorating II</td>
<td>1-5-3</td>
<td>A course in decoration of specialized and seasonal products. Prerequisite: PSTR 1306.</td>
</tr>
<tr>
<td>PSTR 2331</td>
<td>Advanced Pastry Shop</td>
<td>2-4-3</td>
<td>A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques. Prerequisite: PSTR 1301.</td>
</tr>
</tbody>
</table>
**CHLT, CMSW, DAAC, GERS and SCWK**

Issues relevant to health social interactions and work adjustment skills. Students will explore a variety of topics including stress and its effect on body systems, mind/body interactions, and techniques for improving and maintaining healthy personality and social adjustments.

**PSYT 1313 Psychology**

This course focuses on the development of personal, social, and work adjustment skills. Students will explore a variety of issues relevant to health social interactions.

**PSYT 1325 Death and Dying**

This course is a study of the cultural and social norms, values, beliefs, and activities associated with the dying and their survivors. Topics include theories, communication skills, and activities to assist with coping for the dying and their survivors.

**PSYT 1329 Interviewing and Communication Skills**

This course provides instruction for the development of interviewing and communication skills in professional relationships. Students are encouraged to explore personal issues which may affect their ability to remain objective in the clinical setting. Demonstration of skills learned serves as an integral part of the lab process.

**PSYT 2303 Social Psychology**

This course will focus on the study of social perception, social influence, and social relations on individual and group interactions. Recommended prerequisite: PSYC 2301.

**PSYT 2321 Crisis Intervention**

This course is a study of the principles and theories of assisting the individual in a crisis situation. Topics include coping skills to increase potential reinstatement of equilibrium to an individual's lifestyle and suicide prevention.

**PSYT 2331 Abnormal Psychology**

This course provides for the study of the theories and processes involved in the diagnosis and treatment of mental disorders. Recommended prerequisite: PSYC 2301.

**PSYT 2345 Principles of Behavior Management and Modification**

This course provides for the study of behavior management and cognitive theories and techniques with emphasis on their applications. Recommended prerequisite: PSYC 2301.

**PTMC PFEC NCO-LEAD**

**PTMC 1170 Internet**

This course provides a basic instruction of the Internet. The course covers the history of the internet, using a web browser, using search engines, understanding net etiquette, navigating the World Wide Web, searching the internet, using Web integration and Active Desktop features, using electronic mail and e-mail enhancements, exploring newsgroups and using other internet resources.

**PTMC 1171 Spreadsheet Applications**

This course introduces participants to the worksheet and graphics capabilities of spreadsheet applications software. The course is occupationally related and will prepare the learner to use spreadsheets both in their military profession and, if applicable, to business-related careers.

**PTMC 1172 Word Processing Application**

The course is an overview of word processing for the operator. The learner will demonstrate applications in directory/files management.

**PTMC 1173 Data Base Application**

The purpose of this course is to provide the student with hands-on experience with automated records and reports management utilizing computers and software programs. The database management program used in this course is Microsoft Access.
PTMC 1174 Microsoft Outlook  1-0-1
This course provides intermediate level instruction in the use of Microsoft Outlook. The course covers communicating through email, utilization of the task manager, schedule, and journal function, as well as, security measures, reminder options, and information management skills. Additionally, the integration of Outlook with Microsoft Office components will be taught.

PTMC 1175 Microsoft Front Page  1-0-1
An introductory course to webpage design and creation. Front Page is a desktop application used to author, modify, publish, and manage webpage content.

PTMC 1176 Microsoft Power Point  1-0-1
An introductory course in Microsoft Power Point. Creating and editing presentations, inserting graphical elements, building slide shows and presenter preparation will be covered.

PTMC 2171 Microsoft Excel Advanced  1-0-1
Advanced course of instruction on spreadsheets using Microsoft Excel. This course advances the principles learned in Spreadsheet Applications PTMC 1171 by teaching advanced formulas and functions as well as the database, analytical and report features of Excel. Spreadsheet applications PTMC 1171 is recommended but not required.

PTMC 2172 Microsoft Word Advanced  1-0-1
An advanced course of instruction for word processing using Microsoft Word that extends and enhances what is taught in Word Processing Applications PTMC 1172. Instruction will focus on creating and working with reports and large documents that include; tables, charts, images and worksheets. Completion of PTMC 1172 Word processing Applications is recommended, but not required.

PTMC 2175 Microsoft Front Page Advanced  1-0-1
An advanced course in webpage design and creation. The course will integrate advanced features of FrontPage with basic Hyper Text Mark-up Language (HTML).

PTMC 2176 Microsoft Access Advanced  1-0-1
This course expands and builds upon skills developed in Database Applications, PTMC 1173. Relational Databases, related data-tables, sub-forms, advanced form features, advanced report features, queries and customizing charts will be covered.

PTMC 2179 MS Access Application Development  1-0-1
This course is an introduction to Database Development that expands and builds upon skills developed in an Introductory Database Management course. This course will teach students how to use Access as an application generator.

PUNJ Punjabi

PUNJ 1411 Beginning Punjabi I  3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

PUNJ 1412 Beginning Punjabi II  3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: PUNJ 1411 with a grade of “C” or above.

PUNJ 2311 Intermediate Punjabi I  3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisite: PUNJ 1411 and 1412 with a grade of “C” or above.

PUNJ 2312 Intermediate Punjabi II  3-0-3
This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: PUNJ 2311 with a grade of “C” or above.

RSTO Hospitality Management  see also CHEF, HAMG, IFWA, PSTR and TRVM

RSTO 1204 Dining Room Service  1-3-2
Introduces the principles, concepts, and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 1221 Menu Management  2-0-2
A study of the food service principles involved in menu planning, layout, and evaluation for a variety of types of facilities and service methods. Emphasis on analysis of menu profitability, modification, commodity use, and other activities generated by the menu.

RSTO 1301 Beverage Management  3-0-3
A study of the beverage service of the hospitality industry including spirits, wines, beers, and non alcoholic beverages. Topics include purchasing, resource control, legislation, marketing, physical plant requirements, staffing, service, and the selection of wines to enhance foods. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 1313 Hospitality Supervision  3-0-3
Fundamentals of recruiting, selection, and training of food service and hospitality personnel. Topics include job descriptions, schedules, work improvement, motivation, and applicable personnel laws and regulations. Emphasis on leadership development.

RSTO 1325 Purchasing for Hospitality Operations  3-0-3
Study of purchasing and inventory management of foods and other supplies to include development of purchase specifications, determination of order quantities, formal and informal price comparisons, proper receiving procedures, storage management, and issue procedures. Emphasis on product cost analysis, yields, pricing formulas, controls, and record keeping at each stage of the purchasing cycle. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 2301 Principles of Food and Beverage Controls  3-0-3
A study of financial principles and controls of food service operation including review of operation policies and procedures. Topics include financial budgeting and cost analysis emphasizing food and beverage labor costs, operational analysis, and international and regulatory reporting procedures. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

RSTO 2307 Catering  2-2-3
Principles, techniques, and applications for both on-premises, off-premises, and group marketing of catering operations including food preparation, holding, and transporting techniques.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RSTO 2405</td>
<td>Management of Food Production and Service</td>
<td>2-4-4</td>
</tr>
<tr>
<td>RUSS 1411</td>
<td>Beginning Russian I</td>
<td>3-2-4</td>
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<tr>
<td>RUSS 1412</td>
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<tr>
<td>RUSS 2311</td>
<td>Intermediate Russian I</td>
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<tr>
<td>RUSS 2312</td>
<td>Intermediate Russian II</td>
<td>3-0-3</td>
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<tr>
<td>SCWK 1321</td>
<td>Orientation to Social Services</td>
<td>3-0-3</td>
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<tr>
<td>SCWK 2301</td>
<td>Assessment and Case Management</td>
<td>2-2-3</td>
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<tr>
<td>SCWK 2307</td>
<td>Human Behavior and the Social Environment</td>
<td>3-0-3</td>
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<tr>
<td>SLPS 2488</td>
<td>Internship–Security and Loss Prevention Services</td>
<td>0-19-4</td>
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<tr>
<td>SOCI 1301</td>
<td>Introduction to Sociology</td>
<td>3-0-3</td>
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<tr>
<td>SOCI 1306</td>
<td>Social Problems</td>
<td>3-0-3</td>
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<tr>
<td>SOCI 2301</td>
<td>Marriage and The Family</td>
<td>3-0-3</td>
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<tr>
<td>SOCW 2361</td>
<td>Introduction to Social Work</td>
<td>3-0-3</td>
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<tr>
<td>SPAN 1411</td>
<td>Beginning Spanish I</td>
<td>4-2-4</td>
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<td>Beginning Spanish II</td>
<td>4-2-4</td>
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<tr>
<td>SPAN 2311</td>
<td>Intermediate Spanish I</td>
<td>3-0-3</td>
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<tr>
<td>SPAN 2312</td>
<td>Intermediate Spanish II</td>
<td>3-0-3</td>
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<tr>
<td>SPCH 1144</td>
<td>Forensic Activities I</td>
<td>1-0-1</td>
</tr>
</tbody>
</table>

A study of quantity cookery and management problems pertaining to commercial and institutional food service, merchandising and variety in menu planning, and customer food preferences. Includes laboratory experiences in quantity food preparation and service.

This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: RUSS 1411 with a grade of “C” or above.

This course includes grammar review, composition, and reading with conversation based on material read. Prerequisites: RUSS 1411 and 1412 with a grade of “C” or above.

This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: RUSS 2311 with a grade of “C” or above.

Introduction to the basic concepts, information, and practices within the field of social services. Topics include a survey of the historical development of social services; social, legal, and clinical definitions; and review of current information regarding indications for and methods of treatment and/or services.

Exploration of procedures to identify and evaluate an individual’s and/or family’s strengths, weaknesses, problems, and needs in order to develop an effective plan of action. Topics include oral and written communications essential for assessment, screening, intervention, prevention, case management, and referral.

In-depth analysis of human behavior and the social environment. A study of social systems, life span, and strength approaches to understanding human behavior and environmental impact. Emphasis on the impact of human diversity, discrimination, and oppression on the individual’s ability to reach or maintain optimal health and well-being.

A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Consent of the Department Chair.

The study of human society, human behavior and personality as a product of group life, community organization, social change and current social problems.

A study of identification and analysis of contemporary social problems and development of criteria for evaluating these issues for social betterment.

A study of problems in courtship, marriage, and family living as they relate to the social structure of American society.

This course explores the development of the philosophy and practice of social work in the United States, survey of the fields and techniques of social work.

Introduction to the study of modern social work, the underlying philosophy and ethics of social work, and the major divisions and types of social work together with their methods and objectives are explored.

The study of basic Spanish grammar with the development of frequently used vocabulary. This course develops students’ speaking, listening, reading and writing skills so they will be able to express their own ideas and interact with others. Some culture points are integrated to introduce students to the everyday lives of Spanish speakers in the twenty-one countries of the Spanish-speaking world.

The study of basic Spanish grammar and vocabulary development continued from the SPAN 1411 curriculum. Prerequisite: SPAN 1411 with a “C” or above.

The study of grammar and vocabulary with emphasis on conversation and writing. This course will introduce students to Spanish culture and history as well as Latin American culture and history. Prerequisites: SPAN 1411 and SPAN 1412 with a “C” or above.

The study of grammar and vocabulary with emphasis on conversation and writing. This course will introduce students to Spanish culture and history as well as Latin American culture and history. Prerequisites: SPAN 1411 and SPAN 1412 with a “C” or above.

The continuation of SPAN 2311. Emphasis on complex grammar, composition and conversation about Spanish American topics. Prerequisite: SPAN 2311 with a “C” or above.

Study and practice of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC’s speech team.
SPCH 1145 Forensic Activities II 1-0-1
Study and practice of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC’s speech team.

SPCH 1315 Public Speaking 3-0-3
Course encompasses both theory and practice of communicating with others and includes research, composition, organization, and delivery of speeches for various purposes and occasions.

SPCH 1318 Interpersonal Communication 3-0-3
Theory, examples, and participation in exercises to improve effective one-to-one and small-group communication.

SPCH 1321 Business and Professional Communication 3-0-3
Theories and skills of speech communication as applied to business and professional situations. Includes participating in an interview, preparing a resume and cover letter, engaging in problem-solving discussions, and delivering public speeches.

SPCH 2144 Forensic Activities III 1-0-1
Study and practices of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC’s speech team.

SPCH 2145 Forensic Activities IV 1-0-1
Study and practices of the nine individual speaking events that are commonly a part of forensic competition. Stresses research of subject matter, performance, and professionalism as a competitive speaker. Will include some travel to area forensic tournaments as a member of CTC’s speech team.

SPCH 2341 Oral Interpretation 3-0-3
Study and practice in the principles of oral reading of literature. Stresses analyzing good literature and recreating the logical and emotional content for an audience. Also includes group oral interpretation.

TECA Early Childhood Professions

TECA 1303 Families, School and Community 2-2-3
A study of the relationship between the child, the family, the community, and early childhood educators, including a study of parent education, family and community lifestyles, child abuse, multicultural instruction techniques, and current issues.

TECA 1311 Educating Young Children 2-2-3
An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics, and current issues.

TECA 1318 Wellness of the Young Child 2-2-3
A study of nutrition, health, safety, and related activities, including skill development in management of issues, guidelines, and practices in nutrition, as well as community health, hygiene, safety, and legal implications. Integration of these principles applied to a variety of settings.

TECA 1354 Child Growth & Development 3-0-3
A study of the principles of normal child growth and development from conception to adolescence. Focus on physical, cognitive, social, and emotional domains of development.

TRVM Hospitality Management see also CHEF, HAMG, IFAW, PSTR and RSTO

TRVM 1300 Introduction to Travel and Tourism 3-0-3
An overview of the travel industry. Emphasis on travel careers and the impact of tourism on society.

TRVM 2301 Introduction to Convention/Meaning Management 3-0-3
Overview of the meetings and convention industry and the various aspects and skills involved in planning and managing meetings and conventions. Emphasis on types of meetings, meeting markets, industry suppliers, budget and program planning, site selection and contract negotiations, registration and housing, food and beverage requirements, function and meeting room setup, and audiovisual requirements. American Hotel and Lodging Association (AH&LA) certification course. Student must attain a score of 70% or higher on certification test to receive National Certification.

TURK Turkish

TURK 1411 Beginning Turkish I 3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

TURK 1412 Beginning Turkish II 3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: TURK 1411 with a grade of “C” or above.

TURK 2311 Intermediate Turkish I 3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisites: TURK 1411 and 1412 with a grade of “C” or above.

TURK 2312 Intermediate Turkish II 3-0-3
This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: TURK 2311 with a grade of “C” or above.

URDU Urdu

URDU 1411 Beginning Urdu I 3-2-4
This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

URDU 1412 Beginning Urdu II 3-2-4
Elementary grammar is completed. Pronunciation drill and reading-based conversation are continued. Common conversational phrases are stressed. Prerequisite: URDU 1411 with a grade of “C” or above.

URDU 2311 Intermediate Urdu I 3-0-3
This course includes grammar review, composition, and reading with conversation based on material read. Prerequisites: URDU 1411 and 1412 with a grade of “C” or above.

URDU 2312 Intermediate Urdu II 3-0-3
This course continues reading and drill on syntax as needed for reading, composition, and conversation. Prerequisite: URDU 2311 with a grade of “C” or above.
WLDG 1313 Introduction to Blueprint Reading for Welders 1-5-3
A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production. Prerequisite: WLDG 1323.

WLDG 1323 Welding Safety, Tools, and Equipment 1-5-3
An introduction to welding careers and safety practice, including welding safety; OSHA and the Hazardous Communication Act; Material Safety Data Sheets (MSDS); basic mathematics; measuring systems; shop operations; use and care of precision measuring tools; and the use and care of the hand and power tools. Instruction on various types of welding equipment and processes, basic welding gases, fluxes, rods, electrodes, symbols, and blueprints.

WLDG 1417 Introduction to Layout and Fabrication 3-3-4
A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction.

WLDG 1425 Introduction to Oxy-Fuel Welding and Cutting 3-3-4
An introduction to oxy-fuel welding and cutting, safety, setup and maintenance of oxy-fuel welding, and cutting equipment and supplies. Prerequisite: WLDG 1323.

WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW) 3-3-4
An introduction to shielded metal arc welding process. Emphasis is placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions. Prerequisites: WLDG 1323 and WLDG 1425.

WLDG 1430 Introduction to Gas Metal Arc (GMAW) Welding 3-3-4
A study of the principles of gas metal arc welding, setup and use of GMAW equipment, and safe use of tools and equipment. Instruction in various joint designs. Prerequisites: WLDG 1323 and WLDG 1428.

WLDG 1434 Introduction to Gas Tungsten Arc (GTAW) Welding 3-3-4
An introduction to the principles of gas tungsten arc welding (GTAW) setup and use of GTAW equipment, and safe use of tools and equipment. Welding instruction in various positions on joint designs. Prerequisites: WLDG 1323 and WLDG 1428.

WLDG 1435 Introduction to Pipe Welding 3-3-4
An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G using various electrodes. Prerequisite: WLDG 1457.

WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW) 3-3-4
A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. Prerequisite: WLDG 1428.

WLDG 2406 Intermediate Pipe Welding 3-3-4
A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Position of welds will be 1G, 2G, 5G, and 6G using various electrodes. Topics covered include electrode selection, equipment setup, and safe shop practices. Prerequisite: WLDG 1435.

WLDG 2413 Intermediate Welding Using Multiple Processes 2-7-4
Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes: oxy-fuel gas cutting and welding, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), gas tungsten arc welding (GTAW) or any other approved welding process. Prerequisite: Department approval required.

WLDG 2435 Advanced Layout and Fabrication 3-3-4
An advanced course in layout and fabrication. Includes production and fabrication of layout tools and processes. Emphasis on application of fabrication and layout skills. Prerequisite: WLDG 1417.

WLDG 2443 Advanced Shielded Metal Arc Welding (SMAW) 3-3-4
Advanced topics based on accepted welding codes. Training provided with various electrodes in shielded metal arc welding processes with open V-groove joints in all positions. Prerequisites: WLDG 1323 and WLDG 1457.

WLDG 2447 Advanced Gas Metal Arc Welding (GMAW) 3-3-4
Advanced topics in gas metal arc welding (GMAW). Includes welding in various positions and directions. Prerequisite: WLDG 1430.

WLDG 2451 Advanced Gas Tungsten Welding (GTAW) 3-3-4
Advanced topics in GTAW welding, including welding in various positions and directions. Prerequisite: WLDG 1434.

WLDG 2453 Advanced Pipe Welding 3-3-4
Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes. Prerequisite: WLDG 2406.

WLDG 2488 Internship - Welder/Welding Technology 0-19-4
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. Prerequisite: Department approval required.
Personnel

Deans
Ken Austin, Dean, Continental Campus
Barbara A. Grice, Dean, Pacific Far East Campus
Gary Kindred, Dean, Europe Campus
Jim M. Yeonopolus, Deputy Chancellor for International and Navy Campus Operations/Dean, Navy Campus

Continental Campus Personnel
Anda Arms, Site Director, Fort Riley, KS
Arlena Chaney, Site Coordinator, Bethesda, MD
Bob Crawford, Program Manager, MOS Enhancement, Fort Bragg, NC
Edelyn Freitas, Site Director, Fort Bragg, NC
Richard Gates, Site Director, Fort Lee, VA
Arron Grow, Site Director, Fort Lewis, WA
Quentin McCowan, Site Coordinator, Pope Air Force Base, NC
Carl Mojta, Site Director, Bolling Air Force Base, Washington, DC
Valerie Perry, Site Director, Fort Stewart/Hunter Army Airfield, GA
Margaret Pylant, Area Director, Alaska
Pamela Regester, Site Director, Fort Knox, KY
Elaine Singley, Site Director, Holloman Air Force Base
Phillip Schuster, Site Director, Fort Polk, LA
Lisa South, Site Director, Fort Sill, OK
Sabine Thomas, Site Director, Schofield Barracks/Kaneohe Bay, HI
Alex Tuel, Site Coordinator, Walter Reed Medical Center
Christina Webster, Site Director, Fort Leonard Wood, MO
Inez C. Williams, Site Director, Camp Pendleton, CA

Europe Personnel
Sue Andrews, Regional Student Services Officer (Mediterranean), Vicenza, Italy
Soňa Beckert, Regional Student Support Services Officer (Deployed Sites), Mannheim, Germany
Lindsay Bibus, Marketing and Instructional Materials Manager/Librarian, Europe Campus
Sarah Börner, Regional Student Services Officer, Schweinfurt, Germany
Les Brinkley, Regional Student Services, Mannheim, Germany
Sonia Brown, Deployment Coordinator, Mannheim, Germany
Ron Burgess, Support Services Program Manager, Schweinfurt, Germany
David Cole, Director of Military Training Program, Vilseck, Germany
Scott Cornwell, Supervisor, Information Technology, Mannheim, Germany
Michael Coyne, Area Manager of Remote Sites, Europe Campus
Teresa Cramer, Area Manager (Mediterranean), Vicenza, Italy
Michael Danson, Lead Instructor, A VM/MSD Course, Vilseck, Germany
Dudley House, Supervisor, Logistical Services, Mannheim, Germany
Barbara Kindred, Foreign Language Curriculum Development Manager, Mannheim, Germany
Meg Kulla, Data Analyst, Mannheim, Germany
Gregory Linnebur, Associate Dean of Northern Region, Europe Campus
Jennifer McNeese, Support Services Program Manager, Vicenza, Italy
Stephen Minteer, Microsoft Registrar, Mannheim, Germany
George Mulligan, Academic Program Manager/Criminal Justice Department Manager, Mannheim, Germany
Jennifer Pajarillo, Online Mentor, Mannheim, Germany
Jim Robertson, IMCOM-ACES Liaison Officer, Heidelberg, Germany
Stephen Rogers, Support Services Program Manager, Mannheim, Germany
Ancica Roosa, Supervisor, Student Services, Mannheim, Germany
Angelo Sibilla, Language Program Manager, Vicenza, Italy
Sandra Satera, Foreign Language Program Manager, Naples, Italy
Michael Spruell, Associate Dean of Academic Affairs, Europe Campus
Rick Taylor, Business Manager, Europe Campus
Robin Ulrich, Associate Dean of Administration, Europe Campus
David Van Lannen, Lead Instructor, SAM-31 Training Program, Vilseck, Germany
Rick Velez, Help Desk Technician, Mannheim, Germany
Barbara Weigert, Evaluations and Transcript Specialist, Mannheim, Germany
Brian Williams, Automotive Technology Department Manager, Mannheim, Germany
David Wynn, Textbook Manager, Europe Campus

Navy Campus Personnel
Melissa Bennett, Site Coordinator, Marine Corps Air Station, Miramar, CA
Carlton Blaisdell, Distance Learning Site Coordinator, Bangor, WA, Navy Pacific
Todd Carnes, Afloat Coordinator, Norfolk, VA, Navy Atlantic
Steven Clowes, ASHORE Coordinator, Norfolk, VA, Navy Atlantic
Shaundra Dinkens, Site Manager, Yokosuka, Japan, Navy Pacific
Margaret Everett, Director, SBNB/Ashore Coordinator, San Diego, CA, Navy Pacific
Bart Gillard, Coordinator, Student Services, Navy Pacific
Betsy Good, Distance Learning Manager, Navy Atlantic
Connie Guzman, Site Coordinator/Test Administrator, San Diego Naval Base, CA
Jamie Hammond, Site Coordinator/Registrar, San Diego Naval Base, CA
Richelle Hawley, Site Coordinator, San Diego Naval Base, CA
Robert Hernandez, Distance Learning Coordinator, Kingsbay, GA, Navy Atlantic
Terrylyn M. Jackson, Director, Navy Campus
Karl Jaeger, Site Manager, Mayport, FL, Navy Atlantic
Joline Miller, Distance Learning Coordinator, Sasebo, Japan, Navy Pacific
Arthur Minton, Distance Learning Manager, Navy Pacific
Dien Nguyen, Coordinator, Materials Management, Navy Atlantic
Linda C. Norton, Coordinator, Support Services, Navy Atlantic
Dan Piermarini, Site Director, Marine Corps Air Station, Miramar, CA
Aaron Rice, Test Administrator, North Island/Coronado, CA
Kevin Sasse, Distance Learning Coordinator, Norfolk, VA, Navy Atlantic
Lynn A. Stivison-Gibson, Coordinator, Support Services, San Diego, CA, Navy Pacific
Mary Stone, Associate Dean, Navy Pacific
Sarah Topf, Distance Learning Coordinator, San Diego, CA, Navy Pacific
Mariceli Vargas, Site Manager, San Diego, CA
Cathi Velasquez, Coordinator, Materials Management, Navy Pacific
Robert Walker, Distance Learning Coordinator, Groton, CT, Navy Atlantic
Michael Webster, Associate Dean, Navy Atlantic
Courtney Williams, Afloat Faculty Coordinator, San Diego, CA, Navy Pacific
Lori Williams, Distance Learning Coordinator, Pearl Harbor, HI, Navy Pacific

**Pacific Far East Campus Personnel**
Larry Bankester, Director, Okinawa
Orazio G. Forlenza, Associate Dean
Thomas James, Senior Coordinator, Korea
Kenneth Gualtier, Director, Payroll and Personnel Services
Bobby Massey, Director, Logistical Services

**Distance Learning Personnel**
Mary Carr, Director, Distance Learning Operations
Diana Castillo, GoArmyEd/eArmyU Institutional Liaison
Amy Churchill, Coordinator, Distance Learning Operations
Sharon Davis, Director, Distance Education and Educational Technology
Rowena Killough, Coordinator GoArmyEd/eArmyU
Katherine Latham, Instructional Development Manager
Yancy Lones, Instructional Technology Manager
Angela May, Distance Learning Quality Assurance Manager

**Student Services Support Personnel - Systems and Central Campus**
Lena Anderson, eArmyU Evaluator
Teshia Brazelton, eArmyU Academic Advisor
Kevin Ceryes, Distance Learning Administrator/Counselor
Amy Churchill, Coordinator, Distance Learning Operations
Pearl Creviston, Assistant Director, Offices of Student Financial Assistance
Pamela Dancer, Director, Continental and International Campus Records
George Erskine, Director of Testing Services
Catrice Glasgow, Online Mentor
Debbie Hansen, Coordinator, Graduations
Paula Hawk, Online Mentor

Denise Hazlett, Director of Evaluations
Keisha Holman, Coordinator, DL Admissions and Registration
Robert Holman, eArmyU Evaluator
Eva Hutcheons, GoArmyEd Academic Advisor
Pamela Infantas, Coordinator, Transfer Evaluations
Marcie Islas, Coordinator, GoArmyEd Student Support Services
Tamiko Kinnebrew, Online Mentor
Lillian Kroeger, Systems Registrar
Dottie Kyle, Director, Admissions and Recruitment
Jennise Leafa, Coordinator, Military Student Support Services (Continental and Navy/PFE Students)
David McClure, Associate Dean, Guidance and Counseling
Seung-Hee Pastella, Online Mentor
Denise Pergl, Director, Student Support Services
Cheryl Riley, Supervisor, Transcript Services
Elaine Riley, Director, Career Center
Brad Rogers, Assistant Director of Testing Services
Jessica Simpson, Evaluator
Annabelle L. Smith, Director, Offices of Student Assistance/VA Services
Amanda Welch, Online Mentor
Johnelle L. Welsh, Dean, Student Developmental Services

**Student Financial Services - Systems and Central Campus**
Tracy Lehmkhulder, Manager, Accounts Receivable
Pattie Lofton, Assistant Manager, Accounts Receivable
Michael Oliver, Business Office Supervisor
Sherry Pollett, Bursar
Faculty

Continental Campus
Delmar J. Reck (1982)
Automotive
A.A.S., Central Texas College

Europe Campus
Marlon Brown (2008)
Fire Science
A.P.S. Community College of the Air Force
B.A.S. Troy University

Shawn Davis (2006)
Hospitality Management
A.A.S., Central Texas College
B.S., Howard University

Dr. Felipe D. Gonzalez, Department Manager (2003)
Emergency Medical Technology
B.A., Claremont Men’s College
M.D., University of California, Los Angeles

Deb Pohlmann (2003)
General Education
A.A. Pensacola Junior College
B.A. University of West Florida
M.A. University of West Florida

Stephen W. Waller, Department Manager (2003)
Hospitality Management
A.A.S., Central Texas College

Brian P. Williams, Department Manager (2003)
Automotive Technology
A.A.S., Central Texas College
A.A., University of Maryland University Campus
B.S., University of Maryland University Campus

Pacific Far East Campus
Computer Science
B.S., United States Military Academy

Robert A. Clapp (2008)
Computer Science
A.A., Community College of the Air Force
B.S., University of Maryland University College
M.S., University of Phoenix

Social and Behavioral Sciences - History
B.A., St. John’s University
M.A., St. John’s University

Nicole O. Conrad (2001)
Fine Arts - Humanities
B.F.A., Arizona State University
M.F.A., Arizona State University

Sally L. Donaldson (2004)
Fine Arts - Humanities
B.S., Texas A&I University at Kingsville
M.A., Texas A&I University at Kingsville

Jamie E. Engberg (2008)
Mathematics
B.A., Eastern New Mexico University
M.A., St. Olaf College

Maria T. Fidler (2009)
Communications - English
B.A., Excelsior College
M.A., Excelsior College

Maria Flores (2005)
Accounting
B.S., University of the Philippines
M.B.A., University of Guam

Alan A. Laughter (2010)
Criminal Justice
B.S. University of North Carolina
M.S. University of Phoenix

Management
B.A., University of Nebraska
M.A., Pepperdine University

Steven D. Unruh (2004)
Criminal Justice
A.A., University of Maryland University College
A.G.S., Central Texas College
B.S., University of Maryland University College

Criminal Justice
A.S., College of Great Falls
B.S., College of Great Falls

Dana C. Wiggins (2004)
History
B.A., Augusta State University
M.A., Augusta State University

Mark Zeid (2007)
Criminal Justice
A.A., Barstow College
B.A., Antioch College
Index

A
Absences/Unsatisfactory Progress 19
Academic Fresh Start 22
Academic Load 18
Academic Policies 18
Academic Probation, Suspension, Dismissal 21
Academic Standards 21
Adding or Dropping Classes 9
Address Changes 22
Admissions 7
   Active Army Using TA 8
   Early Admissions, High School Students 8
   Former CTC Students 8
   Distant Learners 8
   General Admissions Information 7
   International Students 8
   New CTC Students, First-Time Students 7
   Transfer Students 7
   Transient Students, Non-degree seeking 8
Admissions and Registration 7
Alcohol and Other Drug Abuse 22
Alumni and Friends Association 17
Americans with Disabilities Act 6
Approvals and Authorization 6
Articulation Agreements 6
Associate of Applied Science Degree Requirements 28
Associate of Applied Science Degrees
   Applied Technology 29
   Auto Collision Repair 30
   Automotive Technician 30
   Aviation Maintenance Technology 31
Business Management
   Applied Management 32
   Applied Management with Computer Applications 33
   Business Management 33
   Business Management - Military Science Specialization 33
   Marketing & Sales Management Specialization 34
Computer Science
   Business Programmer Analyst 35
   Information Security Management 35
   Information Technology 36
   Network Systems Administrator 36
   Computer-Aided Drafting and Design 37
   Criminal Justice See Protective Services
   Early Childhood Professions 38
Electronics
   Communications Electronics Technology 39
   Computer Electronics 39
   Emergency Medical Technology (EMT) 40
   Fire Protection See Protective Services
   Heating, Air Conditioning, and Refrigeration Mechanic/Repairer 41
Hospitality Management
   Restaurant and Culinary Management 42
   Hotel Management Specialization 42
   Food and Beverage Management Specialization 43
Legal Assistant 44
Maintenance Technology 45
Mental Health Services
   At Risk Youth Specialization 45
   Chemical Dependency Specialization 46
   Social Work Specialization 47
Office Technology
   Executive Assistant 47
   Office Management 48
   Protective Services
   Criminal Justice 49
   Corrections Specialization 50
   Fire Protection 50
   Homeland Security and Emergency Management 51
   Welding 52
Associate of Art and Associate of Science Degrees
   Business Administration 32
   General Studies 40
   Interdisciplinary Studies 44
   Mathematics 45
   Social Science 52
   Teaching 52
Associate of Arts Degree Requirements 28
Associate of Science Requirements 28
Attendance and Course Progress 18, 19
Auditing Classes. See Classroom Visitors
B
Board of Trustees 2
Bookstore 18
C
Calendar 4
Campus Life 17
Career Center 17
Certificates of Completion
   Automotive Mechanic
      Automotive Technician, Level II 31
   Automotive Tune-up Specialist, Level I 31
   Business Management
      Business Management, Level I 34
      Entrepreneurship, Level I 34
      Marketing & Sales Management, Level I 34
   Computer-Aided Drafting and Design, Level I 37
   Computer Science
      Computer Helpdesk Specialist, Level I 32
      Information Security Management Specialist, Level I 35
      Microsoft Information Technology Server Administrator 37
      Network Specialist, Level I 32
      Web Design Basics 37
   Criminal Justice See Protective Services
   Early Childhood Professions
      Early Childhood Professions, Level I 38
      Administrator’s Credentials, Level I 38
      Special Child Option, Level I 39
   Electronics
      Computer Electronics Technology, Level I 39
      EMT-Paramedic 40
   Fire Protection Technology See Protective Services
   Heating, Air Conditioning, and Refrigeration
      Commercial Heating, AC, and Refrigeration, Level I 41
      Heating, AC, and Refrigeration, Level II 41
      Residential Heating, AC, and Refrigeration, Level I 41
   Hospitality Management
      Baking, Level I 43
      Culinary Arts, Level I 42
      Property Management 43
      Restaurant Skills, Level I 43
      Rooms Division, Level I 43
      Food and Beverage Management, Level I 44
   Mental Health Services
      At Risk Youth Specialization, Level I 46
      Chemical Dependency Specialization - Advanced Certificate, Level I 46
      Criminal Justice Addictions, Level I 46
   Office Technology
      Administrative Support, Level II 48
      Medical Office Specialist 49

Central Texas College C&I Campuses Catalog 2010-2011 - Index 101
Central Texas College C&I Campuses Catalog 2010-2011 - Index

Discrimination 6
Dismissal 21
Distance Education 6
Support Services 17
Testing 16

E
Equal Opportunity Policy 5
Evaluation of Previous Education and Training 16
Evaluation Procedures 16
Nontraditional Education 16
Executive Officers 2

F
Faculty 100
Falsification of Records 22
Family Educational Rights and Privacy Act of 1974 (FERPA) 23
Fees
Course Challenge 10
Diploma Replacement 10
Instructional Materials 10
Return Check 10
Transcripts (per copy) 10
Fees-Continuing Education 10
Filing a Grievance. See Equal Opportunity Policy
Financial Aid
Appeal Process 13
Break in Enrollment 13
Deadlines for Filing 11
Drops and Withdrawals 13
Eligibility Requirements 11
Grade Point Average 12
PELL Grants 13
Loans 13
Maximum Time Frame 12
Probation and Suspension, Financial Aid 12
Return/Repayment of Title IV Funds 14
Satisfactory Academic Progress Policy 11
Scholarships 15
Transfer Courses 13
Veteran Benefits 14
Foundation, CTC 15
Full-time Student (Academic) 18

G
General Information 5
Grading Policy
Change of Grade 21
Grade Designations 20
Grading System 20
Grade Point Average 20
Grades and Financial Aid 21
Repeating a Course 21
Graduation Requirements 23
Applying for Graduation 24
Catalog Program Completion 23
Commencement 24
Replacing a Lost Certificate or Degree 24
With Honors 23
Grants
Federal PELL Grant 13
Grievances. See Equal Opportunity Policy
Guidance and Counseling 15

H
Harassment and Discrimination 6
Hazing and Disruptive Activities 22
High School Students
Early Admissions 8
History of the College 4
Honor Roll 21
I
Information Release. See Directory Information
Institutional Mission Statement 5
Institutional Purpose 5
International Students 9

L
Late Registration 9
Library Services 18
Loans 13
Eligibility Requirements 13
Entrance/Exit Loan Counseling 14
Federal Stafford Loans 14
Repayment 14

M
Maximum Load 18

N
Name Changes 22
O
Obligations to the College 22
P
Personnel Directory 98
Placement Tests 16
Probation 21
Probation, Suspension, and Dismissal Policies 21
Program and Course Availability 5
Programs of Study 25
R
Readmission Requirements 8
Records Access 23
Records Required 9
Transcripts 9
Refunds and Repayments
Tuition 10
Loans 14
Financial Aid 14
Textbooks 11, 18
Registration 9
Adding or Dropping Classes 9
Late Registration 9
Official Enrollment 10
Remedial Studies. See Developmental Studies
Residency Status 11
Residency for Degree and Certificate
Certificates of Completion 23
Associate Degrees 23, 28
Developmental Studies Courses 24
Course Repeats 21
S
Satisfactory Progress Standards 12, 18, 19
Scholastic Honesty 21
  Cheating 21
  Collusion 21
  Plagiarism 21
Scholarships 15
Selective Service Registration Compliance 11
Semester Credit Hours 24
Servicemembers Opportunity Colleges 17
  SOC Degree Network System 17
Statement on Harassment and Discrimination 6
Strategic Planning 5
Student Classification 19
Student Discipline 21
Student Financial Assistance 11
Student Grievances. See Equal Opportunity Policy
Student Records 22
Student Services
  Career Center 17
  Disability Support Services 17
  Evaluation of Previous Education and Training 16
  Guidance and Counseling 15
  Project PASS 17
  Student Support Services 17
  Testing Services 15
  Transcripts, CTC 15
  Suspension 21

T
Testing Services 16
  Distant Learners 16
  eArmyU Students 16
  Institutional Challenge Examinations 16
  Placement Tests 16
  Proctor Information 16
Texas Success Initiative 8
Textbooks 11, 18
Transcripts, CTC 15
Transfer Students 7
Transfer Credits, General Information
  Transfer Credits, Acceptance by CTC 20
  Credit Transfer to Other Colleges or Universities 19
Tuition and Fees
  Tuition 10
  Noncredit Courses 10
  Other Fees 10
  Refunds of Tuition 10

U
Uniform Application of Standards 9

V
Veteran Benefits 15

W
Withdrawal from Classes 19