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Accreditations and Approvals

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

Aircraft Maintenance
Federal Aviation Administration – SC FAA FSDO # 13
125-B Summer Lake Drive
West Columbia, SC 29170

Business
Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

Cosmetology, Nail Technology, Esthetics
Licensed by the South Carolina Board of Cosmetology
P.O. Box 11329
110 Centerview Drive
Columbia, SC 29211

Dental Services
Commission on Dental Accreditation of the American Dental Association
211 East Chicago Ave.
Chicago, IL 60611-2678

Early Care and Education
National Association for the Education of Young Children (NAEYC) Commission on the Accreditation of Early Childhood Higher Education Programs.
1401 H Street NW, Suite 600
Washington, DC 20005-4101
(800) 424-2460

Emergency Medical Technology
Commission on Accreditation of Allied Health Education Programs
9355 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org

Commission on Accreditation of Educational Programs for the Emergency Medical Services Programs
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
Phone: 241.703.8445 Fax: 214.703.8992
www.coaemsp.org

Hospitality
Accreditation Commission for Programs in Hospitality Administration
P.O. Box 400
Oxford, MD 21654

Medical Assisting
Commission on Accreditation of Allied Health Education Programs
9355 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org

Medical Laboratory Technology
National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Road, Suite 720
Rosemont, IL 60018-5119

Nursing
Accreditation Commission for Education in Nursing
3390 Peachtree Road NE
Suite 1400
Atlanta, GA 30326

Occupational Therapy Assistant
ACOTE c/o American Occupational Therapy Association
7501 Wisconsin Avenue, Suite 510E
Bethesda, MD 20814
301.652.6611
www.acoteonline.org

Paralegal
American Bar Association
Standing Committee on Paralegals
321 N. Clark St.
Chicago, IL 60654

Physical Therapist Assistant
Commission on Accreditation in Physical Therapy Education (CAPTE)
3030 Potomac Ave.
Suite 100
Alexandria, VA 22305-3085
703.706.3245
accreditation@apta.org
www.capteonline.org

Radiologic Technology
Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Drive, Suite 2850

Chicago, IL 60606-3182
312.704.5300
mail@jrcert.org
www.jrcert.org

Respiratory Care

Commission on Accreditation for Respiratory Care
264 Precision Blvd
Telford, TN 37690
817.283.2835
www.coarc.com

Veterinary Technology

Committee on Veterinary Technician Education and Activities
American Veterinary Medical Association
1931 N. Meacham Road, Suite 100
Schaumburg, IL 60173-4630

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College Admission Procedures

Your Checklist for Enrolling at Trident Technical College

You will find information, guidelines, and policies about enrolling at TTC throughout this catalog. Please review all information carefully. Use this simple checklist to ensure that you have completed the enrollment process:

1. If you are new to TTC, complete the admissions application online at www.tridenttech.edu or submit the paper application prior to the term or semester in which you plan to enroll. The Admissions Office will send you a letter and/or email with account information for your my.tridenttech.edu email and the TTC portal. Be sure to log in, as updates and important announcements will only be available through these accounts.
2. Your orientation experience is vital to your academic success.
    a. Begin your orientation experience after you submit your admissions application. You may complete an online orientation session or visit the Student Success Center at any campus.
    b. At orientation, you will learn about TTC and its services. TTC offers Navigate, an online advisement tool, to assist you with academic planning and registration. Navigate provides guidance to ensure that your program of study is a good fit for your goals, connects you to many of our student resources, and makes sure you are not missing any steps.
    c. View the Orientation Page for more information.
    d. Complete the admission requirements based on your category of admission (see below). Official proof of high school graduation is required for associate degree programs and most certificate or diploma programs. Check individual diploma and certificate program admission requirements listed under the program listing in this catalog. If you are applying for financial aid, you must provide official high school transcripts to the Admissions Office. Acceptable forms of proof of high school graduation are as follows: official high school transcript or GED diploma/scores or proof of an associate degree or higher from an accredited college/university. A high school certificate of completion is not acceptable proof. An applicant under 18 years of age must be a high school graduate or have a GED, or meet the college's early admit or dual credit requirements. You also must submit either 1) qualifying scores on the SAT (530 Evidence-Based Reading and Writing; 600 Math), ACT (19 English; 22 math); 2) transferable course work in English and math; or 3) take the TTC placement test. Proof of a bachelor's degree or higher is acceptable proof of English proficiency. You may provide unofficial college transcripts to the Admissions Office to exempt portions or all of the placement test, but official copies are required for transfer credit to be awarded. You also must provide proof of lawful presence in the United States. (see the Verification of Citizenship section of this catalog for more information).

3. Apply for financial aid using the Free Application for Federal Student Aid (FAFSA) and have your results sent to TTC (school code 004920). TTC also has a number of campus-based scholarships.
4. Once admitted, contact the Student Success Center at any campus to receive information regarding your assigned success coach or academic advisor, or go to your profile in Navigate to obtain the information: https://tridenttech.navigate.eab.com/ (supported in Chrome browser).
5. Purchase books for the courses for which you are enrolled.
6. Pay tuition and fees or enroll in a payment plan by the fee payment deadline at the Thornley Campus, Palmer Campus, Berkeley Campus, Mount Pleasant Campus, or online via your TTC Portal.
7. Obtain a Student ID card.
8. Access and read all emails sent to your TTC email account and check other appropriate accounts in your TTC Portal regularly.

Verification of Citizenship

The South Carolina Illegal Immigration Reform Act (S.C. Code Ann. 59-101-430) prohibits those unlawfully in the United States from attending a public institution of higher education in South Carolina and from receiving a public higher education benefit. The act requires all public institutions of higher education to verify that all students are lawfully present in the United States.

Application Status

If you apply and are unable to enroll during the term/semester you indicated on your application and then decide to enroll in a future semester, you will need to complete an Application Update form within three semesters of applying and submit it to the Admissions office to re-activate your application to the college.

Program Admission Requirements

All students pursuing admission into a specific program should refer to the specific program area for admission requirements, in addition to meeting all college requirements.

Categories of Admission

New Applicant: You are a *new applicant* if you have NEVER applied to TTC.

Previous Applicant: You are a *previous applicant* if you applied within the last three semesters but did not enroll in courses. Previous applicants create a new account and application, accessed from the TTC website.

Returning Students: You are a *returning student* if you have previously enrolled in courses at TTC. Returning students will complete a new account and application, accessed from TTC.

Admit Types

First-Time Freshman: You are a first-time freshman if you have not attended any other approved, regionally accredited post-secondary institution.

First-Time Transfer: You are a first-time transfer student if you have previously taken courses from any other approved, regionally accredited postsecondary institution, and this is your first enrollment at TTC.

Returning: If you have taken classes at TTC but have not been enrolled in the past three semesters, you are a readmit student and will need to create a new account and application, accessed from the TTC website Contact the Admissions Office at 843.574.6558 for more information.

Nondegree: You are a nondegree student if you plan to take courses at TTC without seeking a degree, certificate or diploma from TTC.

High School Students Taking Courses: You are a high school student taking courses if you are still enrolled in high school but wish to start taking courses at TTC prior to graduation. Students of this type will fall into two categories: ***dual credit*** or ***early admit***.

You are a ***dual credit*** student if you want to earn both postsecondary and high school credits at TTC. You must complete the Dual Credit Application, which requires a signature from your high school principal or guidance counselor approving each course you wish to take.

You are an ***early admit*** student if you are a junior or senior in high school and do not need high school credit for courses taken at TTC. You must complete the Early Admit Application, which requires a signature from your high school principal or guidance counselor approving your attendance at TTC.

Students with Special Admission Requirements

Health Sciences and Nursing: If your intended major or program of study is in Health Sciences or Nursing, you will be required to complete a second application for your program after you have been admitted to TTC. Health Sciences and Nursing applicants must submit a separate Health Sciences or Nursing application online and must successfully complete all additional program requirements to be accepted into a Health Sciences or Nursing program. Health Sciences applicants are required to submit the Statement of Completion form found on the Health Sciences webpage to HealthSciencesAdmissions@tridenttech.edu when they meet all specified program admissions requirements. Enrollment in each of these programs is limited, and applicants are admitted on a first-qualified, first-admitted basis.

Transient Students: You are a transient student if you are currently enrolled at another college and wish to take courses at TTC to transfer back to your home institution. You must submit a TTC application and provide proof from your home institution of approval to take the courses at TTC. You are responsible for tuition and fees. Availability of courses is not guaranteed.

International: You are an international student if you are requesting a student visa or transferring from another college under a student visa. A TOEFL score of 500 on the

paper-based version, 173 on the computer-based version or 61 on the Internet- based version is required. If you are transferring from another college in the United States, you must submit the Transfer Student Status Verification form from your international student advisor as well as the official transcript from the institution you last attended. International students need to apply at least one semester before beginning classes each term and must provide a current I-20 and a copy of their I-94 card. International students are required to submit a deposit in the amount of tuition and fees for two semesters. These funds remain on deposit with the college and cannot be used for tuition and fees until the second semester is completed. Additionally, international students must provide a signed Affidavit of Support indicating availability of adequate funds for tuition, fees, other educational needs and living expenses for two terms. Deposit and support funds must be in U.S. dollars. TTC's international students come from more than 20 countries and participate in an active international student organization on campus. All questions about international student admission procedures and instructional fees should be addressed to the international student coordinator at the Thornley Campus Admissions Office. Additional information about the admission requirements for international students is available on TTC's website, and also at www.uscis.gov. Trident Technical College is required by federal regulations to track and report changes in international students' enrollment or attendance during the semester. Faculty are required to notify the Admissions Office when an international student stops attending a traditional class or stops active involvement in a distance learning class for more than two weeks in terms that are 10 weeks long or longer or for one week for terms that are seven weeks or fewer in length. The college's international student admissions coordinator will notify the Department of Homeland Security when an international student has ceased attendance or changed enrollment status during the semester.

Admit Type	Application		High School Diploma/ Transcript	English Proficiency	Math Proficiency	Proof of Citizenship	Transient Permission
First-time Freshman	Yes		Yes	Yes	Yes	Yes	No
First-time Transfer	Yes		Yes, if you have not completed an associate degree or higher	Yes	Yes	Yes	No
Returning	No		Yes, if you have not completed an	Yes	Yes	Yes	No

			associate degree or higher				
Non-degree	Yes		No	Yes – reading proficiency only*	No	Yes	Only if you are a transient student
High School Students Taking Course	Dual Credit/ Early Admit application		No	Yes	Only if the requested courses require	Yes	No

Other Special Circumstances

Audit: If you want to enroll in curriculum classes without earning credit, you must complete the application process, either as non-degree seeking or declaring a major in a TTC program of study.

Senior Citizen: If you are 60 or older and are a legal resident of South Carolina, you may take selected academic courses at TTC on a space-available basis. Senior citizens using the free tuition benefit may begin registering for classes on the last business day prior to the first day of classes each term up until the first class meeting. You must complete the application process, as either non-degree seeking or majoring in any TTC program of study. In addition, you must complete a certification form in the Business Office prior to registration.

DISCLAIMER:

Entry into TTC does not guarantee admission into specific courses or programs. Placement in a specific course is based on standards that will help ensure your academic success.

TTC reserves the right to modify admission policies and procedures as needed to ensure enrollment does not exceed the facilities and resources available.

Residency

TTC determines residency at the time of admission based on S.C. law and Commission on Higher Education regulations at www.che.sc.gov. Documents are required for proof of residency. To resolve your residency status, contact the Admissions office before registering. You must submit a Change in Residency Status form to the Admissions Office by the last business day before your first term begins. A dependent student seeking classification as a South Carolina resident will not be automatically disqualified from receiving instate tri-county tuition because of the citizenship or immigration status of their parent(s) or guardian(s). Staff should advise students that the immigration or citizenship status of a student's parents(s) or guardian(s) will not automatically disqualify them from receiving these benefits. For U.S. citizen students with undocumented parents or guardians, state-issued identification documents and other typical indicia of

residency may not be available to the parents. In such cases, staff should work with the student to obtain alternate proof of the parents' residence and domicile in South Carolina, including but not limited to the other documents listed in S.C. Code Reg. 62-605(C), as well as utility bills, lease documents, medical and school records, and other records that may indicate domicile. No particular document or combination of documents shall be conclusive in every case; rather, in all case, regardless of the citizenship or immigration status of the parents or guardians, staff shall endeavor to determine whether South Carolina is the true, fixed, principal residence and place of habitation as set forth in S.C. Code Ann. §59-112-lO(D), based on the information and documentation submitted by the student. In all cases, the student has the burden of proving fulfillment of the requirements for instate tuition and attendant benefits.

Placement Testing

Placement testing may be required if students are applying to any of TTC’s associate degree, diploma or certificate programs. The placement test consists of writing, reading and math components. The reading and writing scores are valid for five years, and math scores are valid for two years from the date of testing. The purpose of the test is to ensure that you are placed into appropriate level coursework. Placement in specific courses is based on standards that will help ensure your academic success. If your reading score is below the minimum requirement you will be referred to an adult education or literacy program.

Testing hours vary by campus, and appointments are highly recommended. For availability or to schedule a test, please contact: Thornley Campus at 843-574-6410, Palmer Campus at 843-722-5516, Berkeley Campus at 843-899-8079, Mount Pleasant Campus at 843-958-5810, Dorchester Campus at 843-574-6544 or Dorchester Quick Jobs Training Center at 843-574-2591.

A student may be exempt from all or part of the placement test if the student provides any of the following:

1. A final, official transcript with a weighted 3.0 GPA from a South Carolina high school within the last five years.
2. A qualifying SAT or ACT score **
3. College transcripts with equivalent English and/or math credits.
4. Evidence of a college degree.

**SAT and ACT scores are considered valid for five years from the date of testing.

Retesting

If students feel that their scores have placed them inaccurately, they have the option of retesting. A fee of $25 will be assessed for each attempt. The fee must be paid at TTC’s Business Office and the receipt presented at the time of testing. There is no retest fee for the TTC D2L Math assessment.
Each section of the test (Writing, Reading and Math) may be taken a maximum of three times in a 12 month period. An appeal can be made under special circumstances for a fourth attempt. This attempt must be taken on a TTC campus, preferably at the

Thornley Campus. Contact Testing Services, The Student Success Center, or the Office of Counseling for additional information.

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College Enrollment Procedures

New Student and Readmit Student Orientation

Orientation is an important step in your academic journey where you will learn to use the different technology systems, access important student resources, and prepare to register for classes. You can begin your orientation experience online or in-person after submitting your Trident Technical College Admission Application.

Schedule of Classes

The class schedule is accessible on the website and can be accessed through Navigate. The college reserves the right to adjust the published schedule, including the cancellation of any class, if TTC deems it necessary and appropriate.

Academic Advising

Advising is the process of determining how courses fit into your academic plan. Your academic plan is specific to your intended degree, and thus varies from program to program. Our goal is to help you make the best use of your resources to accomplish your academic goals.

Registration

After meeting admission requirements and being accepted into the college, you will be eligible to register for courses. If your academic advisor or success coach handles registration, please schedule an appointment through Navigate to complete registration.

Catalog Applicability

To graduate, you must fulfill degree requirements as published in the applicable Catalog. If you have had continuous enrollment at TTC, you have two options:

1. fulfill all the program curriculum requirements listed in the Catalog at the time of acceptance into the academic program, or
2. fulfill all the program curriculum requirements listed in any subsequent Catalog in effect while you are enrolled.

If you discontinue enrollment for three consecutive semesters or longer, you must fulfill the program curriculum requirements listed in the Catalog in effect at the time of re-enrollment. The dean of the academic division offering your program must approve any exceptions.

Advanced Standing

If you earned credit hours from other institutions or agencies, you may fulfill up to 75 percent of program requirements through advanced standing. TTC awards the following types of advanced standing credit:

College Transfer Credit: You may receive transfer credit for courses successfully completed at regionally accredited colleges and universities. In awarding transfer credit, TTC considers equivalency of course content, quality, level, hours and program relevance. The American Association of Collegiate Registrars and Admissions Officers' "Transfer Credit Practices of Educational Institutions" serves as a guide for acceptance of transfer credit.

For TTC to consider your transfer credits, you must have official transcripts of previous college work sent to TTC's Admissions office, and you may be asked to provide additional documentation. TTC awards transfer credit only when the grade is C- or higher or when the sending institution confirms that the grade (P for example) is equivalent to a C- or higher. Transfer credit will not be included in the calculation of your GPA at TTC except for certain financial aid requirements. For more information, see Transfer: State Policies and Procedures and Financial Aid.

Military: You may receive credit for selected formal military course work and training. TTC uses the credit recommendations of the American Council on Education's Guide for the Evaluation of Educational Experiences in the Armed Services to evaluate military course work.

Experiential Learning: Students may receive experiential learning credit for selected courses. Credit may be awarded only for courses offered within the current curriculum and must be appropriately related to the student's educational program. Credit may be awarded only to students currently enrolled in credit courses. Credit may not be granted for a course in which the student has already earned a grade, including audit and withdrawal. Credit may be awarded only to students who have previously completed at least three hours of program-specific course work with a grade of C or better. Some formal business and industry training as well as military experience may be considered for experiential learning credit based on recommendations contained in the National Guide to Educational Credit for Training Programs. The American Council on Education's Program on Non-Collegiate Sponsored Instruction (ACE/PONSI) produces this guide. No more than 25 percent of program completion requirements may be composed of experiential learning credit. Exceptions for up to 75 percent of the program requirements may be granted if credit has been previously earned and documented from organizations such as the National Institute for Automotive Service Excellence.

Tests for Advanced Standing

Limitations on Test Credit: The awarding of advanced standing through testing is subject to the following:

1. You may receive up to 16 semester credit hours in advanced standing but not more than one-fourth of the total curriculum hours required for program completion.

2. You must verify that the Registrar's office has your official score reports prior to the beginning of the semester in which you seek advanced standing.
3. You may not receive credit for a course you previously attempted, including withdrawals.
4. You may retest three months after the original test date of a CLEP or 30 days after the original test date of a DANTES DSST exam.
5. Your GPA will not be affected by advanced standing credits.
6. TTC does not guarantee that advanced standing credit awarded for TTC courses will transfer to other institutions.

Advanced Placement: You will receive college credit for a score of 3, 4 or 5 on selected Advanced Placement examinations.

International Baccalaureate: You may receive college credit for scores of 4 or greater on selected International Baccalaureate higher-level exams.

CLEP: You may receive credit for selected College Level Examination Program (CLEP) exams if your scores meet TTC's minimum score requirements. Contact Testing Services for a listing of accepted CLEP examinations. Official score reports must be on file in the Registrar's office prior to credit being awarded.

DANTES DSSTs: You may receive credit for selected Defense Activity for Nontraditional Education Support (DANTES) exams if your scores meet minimum score requirements for TTC. Contact Testing Services for a listing of accepted DANTES DSSTs examinations. Official score reports must be on file in the Registrar's office prior to credit being awarded.

You may retest three months after the original test date for CLEP and 30 days after the original test date for DANTES DSSTs.

Home Program

The Home program is available for Associate in Arts and Associate in Science students who leave TTC before completing their degrees. Participants in the program can transfer selected, preapproved credits back to TTC to complete their associate degrees. Other academic programs may be eligible upon approval from the academic dean. See your advisor for details on eligibility.

Grade Information/Transcripts/Privacy of Student Records

The Registrar's office issues official transcripts in compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), known as the Buckley Amendment. FERPA regulations require that you sign individual release forms for each company, school or individual to whom you desire information released. Parents or guardians of a dependent student may access the dependent student's records by completing a request form and providing appropriate documentation to verify the dependent status of the student to the office of the vice president for Student Services. The college issues official transcripts to outside agencies and to students in a sealed

envelope. Students may access copies of their unofficial transcripts via TTC Self-Service

In accordance with FERPA, the college may release student information known as public or directory information, including the student's name, address, telephone listing, email address, date and place of birth, major field of study, participation in officially recognized activities, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The college periodically updates student addresses for future contact purposes. Students who do not wish to be included in releasable directory information or in the address updates must submit the request in writing to the Registrar's office.

Grading System

Letter Grade	Numerical Scale
A	91-100
B	81-90
C	71-80
D	65-70
F	Below 65

Grade		Used in GPA Calculations	Earns Credit Hours	Grade Points Carried for Each Credit Hour
A	Excellent	Yes	Yes	4
B	Above Average	Yes	Yes	3
C	Average	Yes	Yes	2
D	Below Average	Yes	Yes	1
F	Failure	Yes	No	0
I	Incomplete*	No	No	0
W	Withdrawn	No	No	0
SC	Satisfactory Completion	No	Yes	0
U	Unsatisfactory	No	No	0
AU	Audit	No	No	0

**Defaults to F (or U for developmental courses and other courses graded SC/U) automatically after term 1 of the next semester, unless work is completed and grade is assigned by the instructor.*

Unit of Credit

The semester credit hour is the system of credit used by TTC.

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College Information

Mission Statement

Mission

Educate the individual. Accelerate the economy. Inspire the future.

Values

Integrity
Respect
Student achievement
Academic excellence
Academic freedom
Excellence in customer service
Diversity, equity, and inclusion
Accessibility
Affordability
Innovation
Collaboration
Community engagement

Role and Scope

Trident Technical College is a public, two-year, multi-campus community college that provides quality education and promotes economic development in Berkeley, Charleston, and Dorchester counties. An open-door institution of higher education, and one of the largest institutions in the state, Trident Technical College welcomes and serves students from the rich variety of backgrounds in its service area.

To help students meet their goals, the college offers applied technical associate degrees, diplomas, certificates, and university transfer associate degrees. The curriculum includes programs in arts and sciences; business; culinary and hospitality; education; engineering and manufacturing; health, human and personal services; information technology; law and criminal justice; maintenance and technical trades; and media and visual arts. Additionally, the college offers high school dual enrollment partnerships, apprenticeship programs, customized workforce training, and personal enrichment opportunities. To foster student success, the college provides multiple course delivery methods and comprehensive academic and student support services.

Approved by TTC Area Commission March 28, 2023
Approved by South Carolina Commission on Higher Education May 22, 2023

Reaffirmed by TTC Area Commission April 5, 2024

Locations

TTC serves Berkeley, Charleston and Dorchester counties with five campuses. Thornley Campus is located on Rivers Avenue, one mile north of Aviation Avenue in North Charleston. Berkeley Campus is in Berkeley County on Highway 17-A, south of Moncks Corner. Palmer Campus is located in downtown Charleston on Columbus Street. Mount Pleasant Campus is located on John Dilligard Lane. Dorchester Campus is located in Dorchester County in Summerville on Dorchester Road.

History

Since 1964 Trident Technical College has provided quality education and economic development in Berkeley, Charleston and Dorchester counties. The college has grown over the decades, evolving to meet the complex needs of the diverse communities TTC serves and opening new doors to educational opportunities for lifelong learning.

1960s
The Berkeley-Charleston-Dorchester Technical Education Center was founded in 1964 on a 25-acre site as part of a statewide system established by Gov. Ernest F. Hollings to meet the educational and training needs of South Carolina. The center opened with two buildings, 226 students, and programs in industrial and engineering technology.

1970s
To accommodate its increasing growth, the center merged with Palmer College, a private business college in downtown Charleston, to form Trident Technical College. In addition to business, the newly formed college provided a wider variety of programs to the community, including allied health sciences, criminal justice and university transfer programs.

1980s
The 1980s saw additional changes that opened new opportunities to students. Palmer Campus moved to its current site in downtown Charleston, and the college built its Berkeley Campus near Moncks Corner. Technological advances during the decade increased accessibility with the introduction of academic computing, email and televised courses, the first distance learning program.

1990s
The 1990s ushered in dramatic changes in instructional delivery from courses on videotape to courses online. The first dual credit courses offered to high schools marked the beginning of another rapidly growing delivery system, allowing students to begin earning TTC credit while still in high school. In addition, the college converted its credit offerings from a quarter to a semester system. In 1997, the first phase of the Complex for Economic Development opened on a newly purchased 30-acre site adjacent to Main Campus.

2000s
As distance learning options continued to grow, the college continued expansion of physical facilities. Phase two of the Complex for Economic Development, a 230,000-square-foot facility, allowed for the development of both new and redesigned academic services including the Culinary Institute of Charleston. During this decade, enrollment

increased 54 percent, and the college responded with additional physical and virtual offerings. In 2008-09 the college opened three new instructional sites: St. Paul's Parish location, the Dorchester County Career and Technology Center (later Summerville Site at Trolley Road) and the Dorchester County QuickJobs Training Center in St. George.

2010s

To further increase capacity and consolidate offerings, the college opened a new campus in Mount Pleasant, built the Nursing and Science Building in North Charleston and closed the Summerville Site at Trolley Road. To meet new workforce training demands, the college purchased a facility, the TTC Workforce Training Center, and constructed the S.C. Aeronautical Training Center. The dual credit program grew in a new direction with the opening of Berkeley Middle College on Berkeley Campus and the Early College High School on Palmer Campus. With a renewed emphasis on student success, the college redesigned credit offerings based on seven-week terms within the semesters. The Main Campus in North Charleston was renamed the Thornley Campus in 2018.

Publisher's Note

Although the editor and publisher of this Catalog have made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical or printing errors or errors occasioned by mistakes. The editor and publisher have attempted to present information that, at the time of preparation for printing, most accurately described the course offerings; faculty information; academic and administrative policies, procedures, regulations and requirements; and the support services of the college. Information on program graduation rates is available on TTC's website. This Catalog does not constitute a contract between TTC and its students or applicants for admission or with any other person. TTC reserves the right to change, without notice, any statement in this Catalog, including, but not limited to, statements concerning tuition, fees, charges, academic regulations and requirements, course cancellations, class size, instructors, curricula, calendars, credits, or any other college activity or program. Changes will become effective whenever the appropriate TTC authorities so determine.

See TTC's website for current information. It is especially important to keep apprised of current graduation requirements for your degree program. Catalog users should inquire as to whether changes in this Catalog have been made since the date of publication.

All courses listed in this Catalog are offered only if there is adequate demand and if faculty and facilities are available to provide a qualified instructor and appropriate meeting place. All courses are not offered every semester. For updated course listings, check TTC's website under Course Search. TTC provides programs of study with faculty and academic support that are believed to be appropriate to achieve the academic objectives of this institution. Acceptance into a program of study does not guarantee registration into the courses the college may offer each semester in the program of study.

The college does not guarantee, however, that the completion of any course or program of study will result in the acquisition of knowledge or skills or will enable you to pass or complete any specific examination for any course, degree or license. The college holds

that the acquisition of knowledge is contingent upon your ability, desire to learn and application of efforts.

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College Services and Resources

Adult Students Returning to School

TTC has a large population of students who have been out of school for many years and are returning to upgrade skills, retrain for new jobs, or just take personal interest courses. Nationwide, more than six million older adult students attend college each year. If you are one of these students, you will discover that you have a lot in common with TTC students. TTC has class schedules and services that accommodate the needs of nontraditional students who may be working and/or providing caregiving.

Will I be able to learn and compete with younger students?
Faculty appreciate the diverse perspectives that nontraditional students may provide in the classroom. Generally, older adult students are self-motivated, self-directed, and committed to their studies.

How can I get extra help with courses?
Tutoring in over sixty subjects is available 24/7 by accessing the Tutoring Assistance Guide: https://libguides.tridenttech.edu/tutor. Students can also make an appointment in Navigate or call 843.574.6409 for math and science tutoring.

Where can I get help with classroom skills?
Counseling and Career Development Services offers workshops and individual help with study skills, test taking, test anxiety, time management and stress management. Check with each campus to find out how to access these services.

Thornley Campus, Student Center Bldg. 410, Rm. 210, 843.574.6131
Berkeley Campus, Rm. 111, 843.899.8079
Palmer Campus, Rm. 226, 843.722.5516

Where can I get help with juggling college, work and family?
Counseling Services offers individual counseling to help you with your academic and personal needs. Call for an appointment or stop by the office.

Thornley Campus, Student Center Bldg. 410, Rm. 210, 843.574.6131
Berkeley Campus, Rm. 111, 843.899.8079
Palmer Campus, Rm. 226, 843.722.5516
Mount Pleasant Campus (by appointment), 843.574.6131

Can I get a meal on campus?
Thornley Campus has a food court in the Student Center (Bldg. 410) and the TTC Café in Bldg. 950. Additional vending machines are located in Bldgs. 100, 200, 500, 600, 630, 700/800, 900, 920, 940, and the 100/300 breezeway. The Culinary Institute of Charleston operates the Relish Restaurant and the Relish Bakery Café at Main Campus and 181 Palmer at Palmer Campus, which are open to the public. The Berkeley and Palmer campuses have small food service operations and vending machines. Mount Pleasant Campus has vending machines available in the student lounge.

TTC Alumni and Friends

Trident Technical College Foundation's Alumni and Friends network provides opportunities for former students who have successfully completed courses toward their academic and professional goals to stay connected to the college and participate in mutually beneficial activities and initiatives, contributing to the reputation and advancement of Trident Technical College.

For more information, visit www.tridenttech.edu/foundation/alumni or email alumni@tridenttech.edu.

Cooperative Education

Cooperative Education is a nationally recognized program that awards college credit for work experience related to your major. A current job may qualify for co-op credits, or you may seek help in finding a co-op job through the college's student employment referrals or through personal efforts. The job can be for pay or can be on a volunteer basis.

The credit you receive depends on the number of hours you work per week. Credits appear on your transcript and often substitute for elective credits. You may combine co-op and class attendance in the same semester or alternate semesters of co-op with semesters of class attendance.

You must meet the following requirements for eligibility: have completed two full semesters of your program, have at least a 2.0 grade point average and have the approval of your academic advisor.

Further information is available from the Co-op Office on Thornley Campus, Bldg. 200/ Rm. 229, 843.574.6918.

Education Abroad

Students over the age of eighteen are encouraged to take advantage of travel and study abroad. Many TTC trips are credit-bearing and program-specific. TTC students who are interested in exploring diverse cultures and places, gaining new skills, and enhancing their studies are encouraged to contact their faculty advisor.

Learning Assistance

Learning at TTC offers tutoring and resources to help all currently enrolled TTC students achieve academic success. Tutoring in over sixty subjects is available 24/7 by accessing the Tutoring Assistance Guide: https://libguides.tridenttech.edu/tutor.

The Math Center
Students can meet face-to-face with individual tutors for assistance with math, biology, chemistry, and physics. Students also have the option of receiving assistance through small
group tutoring, workshops, and limited online tutoring. The Math Center is located in Building

920, Room 211 at the Thornley Campus. Tutoring is limited at the Berkeley, Dorchester, Mount Pleasant, and Palmer campuses. Hours vary by semester. Please call 843.574.6409 for hours.

Distance Learning Courses

Through the Distance Learning office, the college provides a number of online and hybrid courses. The Distance Learning office is constantly exploring new and more efficient ways to make courses available to more people – courses with instruction not limited to specific times or places. Courses offered through Distance Learning are listed on the college's website under the course search.

Libraries

TTC's libraries are located on the Thornley, Palmer and Berkeley campuses and provide resources and services to fulfill the informational needs of the college community. Services are also made available for all other TTC locations and sites.

The library's collection supports all programs of study at the college and includes books, periodicals, e-books, databases, streamed videos and DVDs. Students, faculty and staff have access to all items in the library's collection, regardless of campus or location.

The library's website is the gateway for students, faculty and staff to access research resources and library services from both on and off campus. Each library provides computers with a suite of programs available for users' educational needs.

The libraries are teaching libraries with reference and research assistance readily available in person or online using traditional and virtual methods.

Through consortial memberships, the libraries provide students, faculty and staff access to shared resources and delivery services of other libraries and institutions across the State. TTC libraries currently hold membership in the Partnership Among South Carolina Academic Libraries (PASCAL) and the Charleston Area Library Consortium (CALC).

For more information, visit https://www.tridenttech.edu/student/resources/library/index.htm or email library@tridenttech.edu.

Other Resources

For additional College Services and Resources not mentioned on this page, please refer to the TTC Student Services page: https://www.tridenttech.edu/student/index.htm.

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Confidentiality of Student Records

Annual Notice to Students

In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), Trident Technical College will not disclose educational records concerning its students except for directory information and as otherwise stated below. FERPA protects the privacy of education records, and establishes the right of students to inspect and to review their education records. Directory information is considered to be the student's name, address, telephone listing, email address, date and place of birth, major field of study, participation in officially recognized activities, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. This information will be released to anyone who requests it unless the student specifies in writing to the Registrar's office that his or her directory information is to be withheld. In such case, no directory information will be released. Directory information may also be released for College publications, commencement announcements, press releases and advertisements.

Trident Technical College will release a student's educational record without his or her approval under the following circumstances:

- To Trident Technical College officials who have legitimate interest in the records
- To administrators of secondary schools in which the student is currently enrolled or previously graduated from as it related to local, state and federal mandates
- To authorized officials at another institution of higher learning in which the student seeks to enroll
- To be in compliance with a court order or lawfully issued subpoena, but only after the eligible student has been duly notified.
- In clearly defined emergency situations affecting the health and safety of the student or other individuals.
- Family members or guardians of dependent students may access their dependent student's records by submitting a request and providing appropriate documentation to verify the dependent status of the student to the Registrar's office.

The Faculty of Trident Technical College reserve the right to release class specific information regardless of whether or not the student has given permission to the individual or entity requesting such information.

The college periodically updates student addresses for future contact purposes. Students wishing to restrict publication of their student directory information or opt out of address updates must notify the Registrar's office in writing.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the Registrar's office.

Students have the right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office, U.S. Department of Education
400 Maryland Ave. SW
Washington, DC 20202-5920

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English Fluency Requirements for Faculty Employment

1. **General Information**
   a. **Purpose**
   These procedures were developed to comply with SBTCE policy 8-2-109.1 and the English Fluency in Higher Education Act of 1991. The purpose of these procedures is to define methods to ensure that all permanent and adjunct faculty whose first language is other than English and who teach one or more credit courses possess adequate proficiency in both the written and spoken English language and that an appropriate response be given to the student complaints regarding an instructor's English fluency.
   b. **Exclusions**
   This policy does not apply to the following instructional settings: continuing education courses; student participatory and activity courses such as clinics, studios and seminars; special arrangement courses; courses designed to be taught predominantly in a foreign language; and courses taught by visiting instructors.
2. **Procedural Guidelines**
   a. Applicants for permanent and adjunct faculty vacancies will proceed through the college's normal screening process with assessment based on standard job-related criteria to include perceived written and oral communication abilities.
   b. If an applicant becomes a finalist for a faculty position but his/her written or oral English proficiency is judged by the dean to require further evaluation, then the applicant will be referred to an English Fluency Evaluation Committee, hereafter referred to as the Committee. The Committee will ensure that an English fluency evaluation is made on the basis of the following criteria. The applicant will be evaluated by the Committee through the performance of the following minimum proficiency exercises:
      i. Writing an analysis of at least 350 words in English of a scholarly paper written in English and related to the subject area.
      ii. Conducting an oral instructional presentation for a time period equivalent to a class period and related to the subject area. At least half of the presentation should use the lecture method.
   c. The Committee will include representatives from the following:
      One representative from the Vice President for Academic Affairs office;
      One representative from Developmental Studies Reading;
      One representative from curriculum English;
      One representative from Employee Relations.
   The Committee will ensure that appropriate procedures are used to provide a favorable environment for the exercises, as well as controls and security

to ensure that the exercises completed by the applicants are independent and original work. Candidates must be judged by Committee consensus as proficient in both exercises described in Section II.

d. Any grievances under this procedure are to be filed with the office of the vice president for Academic Affairs. When a student files a grievance regarding the English fluency of an instructor, the instructor will be referred within 10 working days to the English Fluency Evaluation Committee for a proficiency evaluation using procedures and methods described in Sections I and II.
e. An instructor who is judged proficient by the Committee will continue teaching assignments without any further action.
f. A permanent instructor judged deficient by the Committee will be given 120 calendar days to develop sufficient skills to be judged proficient by the Evaluation Committee. If during this time the instructor has not shown evidence of satisfactory progress in overcoming the deficiency, additional action up to and including termination may be taken. The process of notification of need for correction of the deficiency as well as the maximum time allowed for correction are defined specifically in TTC Policy 8-0-0, Faculty Performance Management System.
g. Any adjunct instructor judged deficient by the Committee may be immediately terminated.
h. The college's Human Resources office will annually report to SBTCE a recap of grievances filed by students under the provisions of this policy and any invocation of the fluency proficiency guidelines herein.

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Fees

As a state-supported institution, TTC bases its tuition and fees on appropriations granted by the South Carolina General Assembly. The tuition and fees charged by the college are directly affected by the action of the legislature and are, therefore, subject to change without notice.

A schedule of tuition and fees is available at the Admissions office on each of TTC's campuses or by calling 843.574.6111. You also may obtain the current tuition rate by visiting the college's website.

TTC does not mail bills to students. Students should review outstanding balances in Self Service in the portal and pay any balance due before the published payment deadline.

Classification of Students

Student Status

Full Time: A student enrolled for a minimum of 12 semester credit hours

Part Time: A student enrolled for 11.5 or fewer credit hours

The maximum credit load is 18 credit hours per ***semester.*** Enrollment is limited to 11 credit hours in terms 1 and 2 and six credit hours for each mini term. If you plan to enroll in courses totaling more than the maximum load per term or semester, you must receive approval from your program dean.

Enrollment data is reported to the National Student Clearinghouse several times throughout each semester. Students can access their enrollment certification through the National Student Clearinghouse through TTC Self-Service after the last day to drop for the term.

Financial Aid Student Classification

Full time	12 semester credit hours
3/4 time	9 semester credit hours
1/2 time	6 semester credit hours

Residency

Tuition is based on residency. TTC determines residency based on South Carolina law and South Carolina Commission on Higher Education regulations. Documentation may be required for proof of residency.

A dependent student seeking classification as a South Carolina resident will not be automatically disqualified from receiving instate tri-county tuition because of the citizenship or immigration status of their parent(s) or guardian(s). Staff should advise students that the immigration or citizenship status of a student's parents(s) or guardian(s) will not automatically disqualify them from receiving these benefits. For U.S. citizen students with undocumented parents or guardians, state-issued identification documents and other typical indicia of residency may not be available to the parents. In such cases, staff should work with the student to obtain alternate proof of the parents' residence and domicile in South Carolina, including but not limited to the other documents listed in S.C. Code Reg. § 62-605(C), as well as utility bills, lease documents, medical and school records, and other records that may indicate domicile. No particular document or combination of documents shall be conclusive in every case; rather, in all cases, regardless of the citizenship or immigration status of the parents or guardians, staff shall endeavor to determine whether South Carolina is the true, fixed, principal residence and place of habitation as set forth in S.C. Code Ann. §59-112-10(D), based on the information and documentation submitted by the student. In all cases, the student has the burden of proving fulfillment of the requirements for in-state tuition and attendant benefits.

Military students on active duty need to provide the admissions office with their orders to gain in-state tuition. Military veterans utilizing GI Bill Benefits are covered students under the 702-Choice Act and will not be charged out of state tuition. See your Veterans assistance office for details.

Senior Citizens

Legal residents of South Carolina age 60 or over may enroll in selected academic courses on a space-available basis without paying tuition. Senior citizens need to complete the certification form and submit it to the Business office prior to registration.

Student Insurance

The college provides student accident insurance for all curriculum students. Current information on coverage and claims processing is available through Public Safety.

All students in Health Sciences and Nursing programs are required to carry professional liability and major medical insurance.

Fee Changes

Fees are subject to change without notice by the TTC Area Commission.

Refund Policy

Trident Technical College issues full refunds according to the refund periods published each term on public college calendars. The amount of the refund is based upon your official withdrawal from courses or reduction in enrolled hours. To officially withdraw from courses, you must submit a Course Withdrawal Form to the Registrar's office or withdraw via Navigate within the advertised withdrawal period.

Refunds will take approximately 3-4 weeks to process.

Any fees you owe the college are deducted from your refund. **No refunds are given for complete withdrawal or course withdrawal after the official refund period each term.**

South Carolina Tuition Tax Credit

South Carolina Code Section 12-6-3385 provides a refundable individual income tax credit for tuition paid to an institution of higher learning. The credit for each taxable year is equal to 50 percent of the tuition paid, not to exceed $1500 for a student attending either a four-year institution or a two-year institution.

Refer to form I-319 under forms and instructions on the South Carolina Department of Revenue website.

Repayment of Federal Financial Aid

If you are receiving financial aid from Title IV federal funds (Pell, SEOG, Direct Lending) and you totally withdraw from college or stop attending without officially withdrawing for any reason prior to attending 60 percent of the term or semester, TTC will determine if you are required to repay Title IV funds based on Title IV regulations. If payment is required, TTC will return funds to the federal government according to the federal guidelines, which may result in a balance owed to TTC.

The U.S. Department of Education instituted this repayment policy in the 2000-01 academic year for students receiving Title IV assistance (financial aid).

A portion of financial aid funds will be returned to the appropriate federal program upon a recipient’s total withdrawal from college. The amount returned is based on the percentage of enrollment completed for that term or semester and the amount of financial aid assistance considered earned.

1. The number of calendar days in the enrollment period (term or semester) is divided into the number of calendar days the student completed for that semester.
2. The amount of financial aid earned is equal to the percentage of the term or semester that was completed (up to the 60 percent point). If the student withdraws after the 60 percent point of the term or semester, the student will have earned 100 percent of financial aid funds received for that semester.

Veterans Tuition Payments

All students receiving veterans’ educational benefits, with the exception of the Post-911 (Chapter 33) Vocational Rehabilitation and Employment (Chapter 31) and state free tuition recipients, are required to pay their tuition and fees by the deadline date. These payments are due without regard to your receiving benefits checks from the Department of Veterans Affairs. Contact the TTC Veterans Assistance Center on the Thornley Campus in Bldg. 410 or call 843.574.6105 for additional information.

Veterans and Overpayments

TTC certifies educational benefits for those veterans, spouses and children of deceased or 100 percent disabled veterans who are eligible according to the provisions established by the Department of Veterans Affairs and the state of South Carolina. Students receiving VA benefits that are processed through TTC's Veterans Assistance office must keep the TTC VA office informed about initial registration in classes each semester and immediately report any changes in enrollment status during the semester to avoid either underpayment or overpayment situations. If a TTC veteran student's enrollment status changes due to canceled classes, never-attended reporting or the student dropping classes, TTC must notify the Department of Veterans Affairs. It is the student's responsibility to contact TTC's VA office about any registration changes.

Additional Fees and Charges

The fees listed below are not necessarily all inclusive and are subject to change without notice.

Credit by Exam Fee: $45
Student ID Card Fee: $5 for replacement ID; first card no charge
Student Official Transcript Fee: $10 per transcript
Returned Checks and Credit Card Payments: A service fee is assessed in accordance with current law on all chargebacks of checks received in payment of books, fees, etc. that are returned by the bank for insufficient funds or closed accounts.

Debts Owed to the College

You will not be permitted to receive your graduation diploma, transcripts or current semester grades, or to register for the upcoming semester until all debts incurred at the college have been paid in full.

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Financial Aid

A variety of financial assistance is available to help students with the cost of attending Trident Technical College. TTC’s Financial Aid office assists prospective and current students and their families by providing information about financial resources, assisting applicants with the application process for financial assistance, calculating an applicant’s level of eligibility for financial assistance, awarding financial assistance based on an applicant’s enrollment status, and monitoring students’ satisfactory academic progress each semester for continued eligibility in financial assistance programs.

Types of Financial Aid

Financial assistance programs offered at TTC include federal programs under Title IV funds, state grants, and scholarships. Federal financial assistance includes the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), Federal Work-Study (FWS), Federal Direct student loans, and Parent PLUS loans. State financial assistance programs include the South Carolina Lottery Tuition Assistance Program, South Carolina Palmetto Fellows Scholarship, South Carolina LIFE Scholarship and South Carolina Need-Based Grant.

Eligibility for Financial Aid

Eligibility for federal (and some state) financial assistance awards requires:

1. U.S. citizenship or permanent residency
2. A high school diploma or GED
3. Documented financial need
4. Enrollment in an eligible program of study that meets federal requirements
5. No prior student loans are in default
6. The applicant is not in repayment on any Federal Pell or FSEOG grant
7. Satisfactory Academic Progress as defined by TTC

Important Dates

Students should apply for financial aid by completing their FAFSA Submission Summary (FSS) sent to TTC at least four weeks before the semester in which they plan to enroll. TTC's school code is 004920. Any documents requested by the Financial Aid office should be submitted to TTC’s Financial Aid office as soon as possible after the request. This will allow TTC to process aid before the beginning of the semester when the student plans to enroll. All documents become the property of TTC and will not be returned to or copied for the student. If students submit the FAFSA closer to the start of classes, students should be prepared to pay their tuition and fees and purchase books by the fee payment deadline for the semester. Students' financial aid will be processed

in the order in which their FAFSA Submission Summary (FSS) and additional required documents are received.

Applying for Financial Aid

To apply for financial aid, fill out the Free Application for Federal Student Aid (FAFSA). A new or renewal FAFSA must be submitted for each academic year (fall through summer) and is available for the upcoming academic year after October 1. The FAFSA is available online at www.studentaid.gov. The results of a student's FAFSA can be submitted directly to TTC by placing TTC's school code (004920) on the FAFSA.

A student's financial aid eligibility is determined from the information provided on the FAFSA. To complete the 2024-25 application, use 2022 federal tax returns and copies of any untaxed income for that year. A FAFSA Submission Summary (FSS) is generated and sent to the student and also to TTC if students indicate the college on the FAFSA. Corrected or additional information is submitted on the website, www.studentaid.gov. Students receive the FSS electronically. It is important to review the FSS for accuracy and to respond promptly to any requests for corrections and/or additional information.

The U.S. Department of Education may randomly select financial aid applicants to verify all FAFSA information documented on the FAFSA. If a student is randomly chosen for verification, the student will be notified by their TTC my.tridenttech email to submit a verification worksheet and other necessary documentation. These notifications can be viewed in FA Self-Service.
Students must submit all copies of required documents to TTC's Financial Aid office. The documents become the property of TTC. The Financial Aid office cannot provide students with copies of submitted documents. Once all requirements are met, the student's personalized view in FA Self-Service will show all eligible aid for the award year.

Financial Aid and Withdrawal

If a student receives financial aid and withdraws from or stops attending all classes, the student may have to repay a portion of the financial aid funds to the federal government and/or TTC.

The student will be ineligible to receive federal financial aid at any college or university until the student satisfies the overpayment.

Students should consider the financial implications of withdrawing or not attending all of the classes. Withdrawing from classes could cause the student to lose financial aid eligibility for failure to maintain Satisfactory Academic Progress (SAP). TTC's SAP policy is available on TTC's website.

Cost of Attendance

The Cost of Attendance (COA) is constructed following federal student aid regulations and helps determine the student's financial need. The COA sets a limit on the amount of aid students may receive. The COA is an estimate of a student's total educational

expenses. The COA is different for each category (dependent/independent; in county/out of county/out of state). Costs may vary according to individual circumstances and choices. *Note: The COA is updated each academic year and published on TTC's website in the Financial Aid section.*

Federal Pell Grant

Federal Pell Grant provides financial assistance to those who demonstrate financial need. The grant is intended to be the base of a financial aid package and may be combined with other forms of aid to help meet the costs of education. Any student working toward an eligible degree/diploma/certificate may be eligible for the Pell Grant, depending on the number of semesters attending, the number of credit hours enrolled each semester, and eligibility as calculated by the Department of Education. The FAFSA is one component to determine eligibility and all students are encouraged to complete the application yearly.

Federal Supplemental Educational Opportunity Grant

Federal Supplemental Educational Opportunity Grant (FSEOG) provides additional assistance for qualified students who demonstrate exceptional financial need beyond the Federal Pell Grant and have the lowest Student Aid Index (SAI).

South Carolina Need-Based Grant

The South Carolina Need-Based Grant is available to South Carolina residents who are seeking their first undergraduate degree. Students must complete the FAFSA, have unmet need, be enrolled in a minimum of six eligible credit hours, and submit the required SC Need-Based Grant affidavit. Awards are made on a first-come, first-served basis until depleted.

Federal Work-Study Program

Federal Work-Study (FWS) provides part-time employment opportunities to defray educational expenses. FWS funding is assigned on a first-come, first-served basis. The number of hours assigned is determined by financial need as well as the student's course schedule and ability to maintain satisfactory academic progress. The number of jobs available is based on the funds allocated by the federal government for the year. To be eligible for FWS, students must be enrolled at least part-time each semester and maintain a 2.0 cumulative GPA. Funds are paid monthly directly to the student to assist with the Cost of Attendance.

Student Loans

Federal Direct student loans are available to students enrolled at least half-time (six credit hours) in an eligible program. Federal student loans accrue interest and require repayment of principal, fees, and interest. See TTC's website for additional information.

The interest rate is variable and set each year on July 1. Students must sign the Federal Master Promissory Note and complete the Federal Student Loan Entrance Counseling

session to accept a student loan and borrow loan funds. Loan repayment begins six months after the student is not enrolled at least half-time (six credit hours).

Loans are either subsidized or unsubsidized. To qualify for a subsidized loan, a student must demonstrate need according to federal guidelines (FAFSA). The federal government pays the interest on subsidized loans while the student is in college and during a grace period (six months). Unsubsidized loans are available to students who do not demonstrate financial need according to federal guidelines (FAFSA). Interest begins to accrue immediately and is added to the loan principal. Interest payments are deferred while the student is in college.

Details of eligibility are available at www.studentaid.gov.

The U.S. Department of Education requires student loan borrowers to complete exit counseling when there is a change in enrollment status. If a student borrows a student loan and withdraws from all classes or withdraws from one or more courses, resulting in an enrollment status of less than six credit hours, the student must complete the exit counseling. Student loan borrowers graduating from any TTC academic program must complete exit counseling before graduation. Complete the exit counseling at www.studentaid.gov. Students will receive a letter from their loan servicer about repayment of their student loan.

Federal Parent Loan for Students

The Federal Direct Parent Loan (PLUS) is for parents of dependent students. This loan is not need-based and may not exceed the cost of attendance. The student must be enrolled at least half-time (six credit hours) in an eligible program of study. The parent must repay the principal, fees, and interest. Repayment begins immediately after disbursement of the loan.

Scholarships

Scholarships are available from industries, businesses, professional organizations, civic clubs and individuals. The TTC Foundation selects recipients for its scholarships. Scholarships are usually awarded before the beginning of the fall semester. Application information and deadlines are available on the TTC website.

SC LIFE Scholarship

The SC LIFE Scholarship is available for qualifying South Carolina residents. Recipients must be full-time, degree-seeking students not taking developmental or bridge courses. First-time entering freshmen must have graduated from high school with a minimum of a 3.0 cumulative S.C. uniform grade point average. Students must sign the SC LIFE Scholarship affidavit each academic year. Additional information and details are available at https://www.che.sc.gov. Click on the “Students and Parents” tab.

SC Lottery Tuition Assistance

SC Lottery Tuition Assistance (SCLTA) is not based on financial need. Students may be eligible for lottery assistance if they qualify for in-state tuition rates according to state

regulations. Completion of the Free Application for Federal Student Aid (FAFSA) or SCLTA waiver is required for each year. The SCLTA award is not retroactive and only applies to either the current semester or future semesters. Assistance is paid to the college, not the student, and only applies toward tuition.

SC Palmetto Fellows Scholarship

The Palmetto Fellows Scholarship Program fosters scholarship among the state's post-secondary students and retains outstanding South Carolina high school graduates in the State through awards based on scholarship and achievement. Additional information and details are available at https://www.che.sc.gov. Click on the “Students and Parents” tab.

Federal Tax Benefits for Education

For additional information on tax benefits, seek advice from a tax consultant or the IRS website at www.irs.gov to obtain Publication 970, Tax Benefits for Education.

Financial Aid Criteria

Program	Federal Pell Grant**	Federal Supplemental Educational Opportunity Grant (FSEOG)**	South Carolina Need-Based Grant (SCNBG)**	Federal Work-Study (FWS)
Who’s Eligible	Students who have documented financial need and have never received a bachelor’s degree. Must be a U.S. citizen or permanent resident, and not in grant overpayment or default on student loans.	Students enrolled in at least one semester credit hour who are Pell Grant eligible and are maintaining satisfactory academic progress.	Students who are South Carolina residents, Pell Grant recipients, maintain a 2.0 cumulative GPA, enrolled in at least six credit hours, and who do not have a bachelor’s or associate degree or are not working on a second certificate or diploma program	Students must be enrolled part-time each semester, and have documented financial need. Must be a U.S. citizen or permanent resident, pass all federal eligibility matches, and not be in grant overpayment or default on student loans.

			of study.	
Award	Based on federal guidelines, fall, spring, and summer	Varies	Varies	Hourly wage paid monthly.
How to Apply	Complete the Free Application for Federal Student Aid (FAFSA). For the South Carolina Need-Based Grant, students must complete a S.C. Need-Based Affidavit after receiving the award. Do not submit an affidavit form unless the SC Need-Based Grant is awarded.			
	1. Apply for and be accepted for admission to TTC as a regular, degree-seeking student. 2. Submit HS/GED transcripts/diploma/certificate to the Admissions office. a. This is required for federal student aid and some SC grants. b. SCLIFE Scholarship requires a final, official HS transcript dated no later than June 15th of the graduation year. Consult your HS Guidance Department for information on transcript requests. 3. Complete the Free Application for Federal Student Aid (FAFSA) at www.studentaid.gov and list TTC to receive the information (code 004920). a. the student will receive a FAFSA Submission Summary (FSS) via email. b. TTC will receive the student's Institutional Student Information Report (ISIR). c. Necessary corrections or additional information requested is listed in emails, and on the student's personalized view in FA Self Service. It is important to respond promptly to any requests for corrections or additional information. The student's application is not complete without all required information. 4. For best results, please complete the FAFSA no less than four weeks before the start of classes. Students who apply less than four weeks before the start of classes should be prepared to pay their tuition/fees and books. 5. The Financial Aid office processes applications on a rolling basis according to the date received.			

***Grants do not require repayment.**

Award Information: Financial aid is processed for one academic year (fall, spring and summer), per application.

All Financial Aid programs are subject to change. For up-to-date information on how S.C. Lottery Tuition Assistance through the South Carolina Education Lottery will affect tuition, scholarships and/or fees, visit www.tridenttech.edu.

Financial Aid Criteria

Program	S.C. Lottery Tuition Assistance	S.C. LIFE & S.C. Palmetto Fellows Scholarship	Federal Direct Student Loan Programs***	Parent Loans***	Veterans Educational Benefits
Who's Eligible to Apply	Students who qualify for in-state tuition and are legal South Carolina residents for at least one year. Must meet the Lottery satisfactory academic requirements, and be enrolled in at least six credit hours and cannot have earned an associate degree within five years of the award year.	Requirements vary with different scholarships. Visit TTC's website for more details.	Students enrolled in at least six semester credit hours who have filed a FAFSA and meet all other eligibility requirements. Applications must be approved by the Financial Aid office and the Department of Education.	Parents of dependent students enrolled in at least six semester credit hours and meeting all other eligibility requirements. Also available to some students. Inquire with the Financial Aid office to determine eligibility.	Qualified veterans, active-duty personnel, active reserve and national guardsmen, widows, and children of deceased or disabled veterans.
Award	Varies	Varies	Varies Award is for fall/spring/ summer	Varies	Varies
How to Apply	Complete the Free Application	Contact the TTC Financial	Complete the Free Application	Check with the	Contact the Veterans Assistance

	for Federal Student Aid (FAFSA).	Aid office and your high school guidance counselor. Scholarship recipients must complete an affidavit and submit final official high school transcripts.	for Federal Student Aid (FAFSA). First-time borrowers must complete loan entrance counseling and a master promissory note (MPN). All borrowers must complete exit counseling when graduating or leaving TTC.	Financial Aid office.	office on TTC's Thornley Campus.

******Loans must be repaid.***

Enrollment for Financial Aid: *TTC awards financial aid based on credit hours per term of enrollment at the end of the drop period of the term. No adjustments to the student's awards will occur based on changes after the drop period unless a class is canceled by the college or the student withdraws.*

2024-2025 TTC Catalog

Publisher Statement

Although the editor and publisher of this catalog have made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical or other errors or errors occasioned by mistakes. The editor and publisher have attempted to present information that, at the time of preparation for posting, most accurately described the course offerings; faculty information; academic and administrative policies, procedures, regulations and requirements; and the support services of the college. Information on program graduation rates is available on TTC's website.
This online catalog does not constitute a contract between TTC and its students or applicants for admission or with any other person. TTC reserves the right to change, without notice, any statement in this catalog, including, but not limited to, statements concerning tuition, fees, charges, academic regulations and requirements, course cancellations, class size, instructors, curricula, calendars, credits, or any other college activity or program. Changes will become effective whenever the appropriate TTC authorities so determine.

See TTC's website for current information. It is especially important to keep apprised of current graduation requirements for your degree program. Catalog users should inquire as to whether changes in this catalog have been made since the date of posting.

All courses listed in this catalog are offered only if there is adequate demand and if faculty and facilities are available to provide a qualified instructor and appropriate meeting place. All courses are not offered every semester. For updated course listings, check TTC's website under Course Search. TTC provides programs of study with faculty and academic support that are believed to be appropriate to achieve the academic objectives of this institution. Acceptance into a program of study does not guarantee registration into the courses the college may offer each semester in the program of study. The college does not guarantee, however, that the completion of any course or program of study will result in the acquisition of knowledge or skills or will enable you to pass or complete any specific examination for any course, degree or license. The college holds that the acquisition of knowledge is contingent upon your ability, desire to learn and application of efforts.

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Student Responsibilities

General Responsibility

As a student, you are responsible for being informed of all policies and procedures required to attend TTC, most of which are found in this Catalog and the TTC Student Handbook. You may review all TTC policies and procedures in the offices of the Registrar, Student Activities, Vice President for Student Services, and Counseling and Career Development Services. College regulations will not be waived because a student pleads ignorance of established policies and procedures. If you are unsure of any procedure, you should seek help or clarification from the Assistant Vice President of Student Services' office or an academic advisor.

Academic policies and procedures are subject to change. If changes occur, they will be published in the next Catalog, Student Handbook or Policies and Procedures manual, all of which can be accessed on TTC's website.

Student Responsibilities

Essential student information about TTC is available at www.tridenttech.edu > Get Started > Essential Consumer Information, in accordance with the Higher Education Reauthorization Act of 2008.
It is recommended that you review and update your contact information at least once each semester. Contact information includes your mailing address and phone number(s).

Verify and update your contact information in your User Profile in TTC Self Service. You can locate Self Service via your my.tridenttech.edu portal.

Placement Testing Changes

Entry-level placement test score requirements are subject to change.

Documents

As an applicant to TTC, you are responsible for making sure that all required documents are sent to the appropriate college office by the appropriate deadlines.

All documents submitted to the college become the permanent property of TTC. Therefore, the college will not copy documents for or distribute them to students.

Student Debts

The S.C. Tax Commission supports TTC by collecting any delinquent accounts or debts owed by former or current students from students' tax refunds.

The Setoff Debt Collection Act of 1988 allows the S.C. Tax Commission to assist any state agency in the collection of any delinquent account or debt. For more information, call 843.574.6124.

Returned Checks

If you give TTC a bad check to pay any fee, you will be assessed a service charge in accordance with current law and will be given 10 days to pay the fees and any penalty fee. During this 10-day period your classes may be cancelled. If the check and service fee have not been paid within 10 days, TTC may take legal action to collect the check with court costs and fees added to the amount of the original check.

The Code of Laws of South Carolina provides for a fine of not less than $50 or a term of imprisonment for drawing and uttering dishonored checks.

Disabilities-Related Needs

The college complies with relevant provisions of SEC 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, as amended. Appropriate, reasonable accommodations based on current medical and/or psychological documentation can be provided. If you need and qualify for these services, contact Services for Students with Disabilities, prior to the beginning of the semester if possible, at 843.574.6131 or TTY hearing-impaired phone 843.574.6351 for more information and assistance. Details on policies and procedures are available at www.tridenttech.edu.

Communication to Students

TTC corresponds with students through the college's official student email found in the student portal at my.tridenttech.edu to confirm the student's identity and maintain the privacy and security of student records. College responses to student email inquiries for personally identifiable student information occur only through the official student email system to protect the student's confidential student records. Students are responsible for checking TTC student email and other Portal accounts on a regular basis for important college information about financial aid, payment deadlines, college events and announcements.

The college does not mail bills to students and expects students to access their financial information in TTC Self Service each semester to determine the balance owed by the payment deadline.

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Transfer State Policies and Procedures

Transfer Policy for Public Two-Year and Four-Year Institutions in South Carolina (Revised 12/2009)

The South Carolina Course Articulation and Transfer System serves as the primary tool and source of information for transfer of academic credit between and among institutions of higher education in the state. The system provides institutions with the software tools needed to update and maintain course articulation and transfer information easily. The student interface of this system is the South Carolina Transfer and Articulation Center (SCTRAC) Web portal: www.sctrac.org. This web portal is an integrated solution to meet the needs of South Carolina's public colleges and universities and their students, and is designed to help students make better choices and avoid taking courses which will not count toward their degree. Each institution's student information system interfaces with www.sctrac.org to help students and institutions by saving time and effort while ensuring accuracy and timeliness of information.

Admission Criteria, Course Grades, GPAs, Validations

All four-year public institutions will issue a transfer guide annually in August or maintain such a guide online. Information published in transfer guides will cover at least the following items:

1. The institution's definition of a transfer student.
2. Requirements for admission both to the institution and, if more selective, requirements for admission to particular programs.
3. Institutional and, if more selective, programmatic maximums of course credits allowable in transfer.
4. Information about course equivalencies and transfer agreements.
5. Limitations placed by the institution or its programs for acceptance of standardized examinations (e.g., SAT, ACT) taken more than a given time ago, for academic course work taken elsewhere, for course work repeated due to failure, for course work taken at another institution while the student is academically suspended at his/her home institution, and so forth.
6. Information about institutional procedures used to calculate student applicants' GPAs for transfer admission. Such procedures will describe how nonstandard grades (withdrawal, withdrawal failing, repeated course, etc.) are evaluated; they will also describe whether all course work taken prior to transfer or only course work deemed appropriate to the student's intended four-year program of study is calculated for purposes of admission to the institution and/or programmatic major.

7. Institutional policies related to “academic bankruptcy” (i.e., removing an entire transcript or parts thereof from a failed or underachieving record after a period of years has passed) so that re-entry into the four-year institution with course credit earned in the interim elsewhere is done without regard to the student’s earlier record.
8. “Residency requirements” for the minimum number of hours required to be earned at the institution for the degree.

South Carolina Transfer and Articulation Center (SCTRAC)

All two- and four-year public institutions will publish information related to course articulation and transfer, including but not limited to items A through D mentioned above, on the South Carolina Transfer and Articulation Center website (www.sctrac.org). Course equivalency information listing all courses accepted from each institution in the state (including the 86 courses in the Statewide Articulation Agreement) and their respective course equivalencies (including courses in the “free elective” category) will be made available on www.sctrac.org. This course equivalency information will be updated as equivalencies are added or changed and will be reviewed annually for accuracy. Additionally, articulation agreements between public South Carolina institutions of higher education will be made available on www.sctrac.org, will be updated as articulation agreements are added or changed, and will be reviewed annually for accuracy. All other transfer information published on www.sctrac.org will be reviewed at least annually and updated as needed.

Assurance of Transferability of Course Work Covered by the Transfer Policy

Course work (i.e., individual courses, transfer blocks and statewide agreements) covered within this transfer policy will be transferable if the student has completed the course work with a C grade (2.0 on a 4.0 scale) or above. However, the transfer of grades does not relieve the student of the obligation to meet any GPA requirements or other admission requirements of the institution or program to which application has been made. In addition, any four-year institution which has institutional or programmatic admission requirements for transfer students with cumulative grade point averages (GPAs) higher than 2.0 on a 4.0 scale will apply such entrance requirements equally to transfer students from regionally accredited South Carolina public institutions regardless of whether students are transferring from a four-year or two-year institution.

Any course work covered within this transfer policy will be transferable to any public institution without any additional fee and without any further encumbrance such as a validation examination, placement examination/instrument, verification instrument, or any other stricture, notwithstanding any institutional or system policy, procedure or regulation to the contrary.

Assurance of Quality

All claims from any public two- or four-year institution challenging the effective preparation of any other public institution's course work for transfer purposes will be evaluated by the staff of the Commission on Higher Education in consultation with the Advisory Committee on Academic Programs. After these claims are evaluated, appropriate measures will be taken to ensure that the quality of the course work has been reviewed and approved on a timely basis by sending and receiving institutions alike.

Transfer Officers

Each institution will provide the contact information for the institution's Transfer office personnel, including telephone numbers, office address and email address, on its website and on www.sctrac.org. Transfer office personnel will:

- Provide information and other appropriate support for students considering transfer and recent transfers.
- Serve as a clearinghouse for information on issues of transfer in the state of South Carolina.
- Provide definitive institutional rulings on transfer questions for the institution's students under these procedures.
- Work closely with feeder institutions to assure ease in transfer for their students.

Statewide Publication and Distribution of Information on Transfer

The staff of the Commission on Higher Education will place this document on the Commission's website under the title "Transfer Policies." In addition, information about transfer, including institutional policies, course equivalencies and articulation agreements, will be published and distributed by all public institutions through transfer guides and be made available on www.sctrac.org.

Furthermore, course catalogs for each public two-and four-year institution will contain a section entitled "Transfer: State Policies and Procedures." This section will:

1. Include the Transfer Policy for Public Two- Year and Four-Year Institutions in South Carolina.
2. Refer interested parties to www.sctrac.org as well as to the institutional Transfer Guide and institutional and Commission on Higher Education's websites for further information regarding transfer.

For more information regarding transfer from TTC to four-year colleges and universities, contact Timothy Brown, assistant vice president of academic programs, or visit TTC's website.

For information about transferring in South Carolina, visit www.sctrac.org.

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Veterans, Veteran Dependents and Service Personnel

Enrollment Opportunities for Veterans, Veteran Dependents and Service Personnel

TTC is a fully accredited institution of higher learning certified to process claims for veterans and spouses and children of deceased or 100 percent disabled veterans, with the Department of Veterans Affairs and the state of South Carolina. TTC is committed to assisting veterans, eligible spouses and dependent children, and active-duty personnel to meet their educational needs.

Veterans Assistance is available on Thornley, Berkeley and Palmer campuses. The TTC VA office and VET Center are staffed with TTC employees and provide information, referrals and assistance to veteran students, reservists, active-duty personnel and eligible dependents of veterans with admission, educational and vocational counseling, financial aid and other needs that affect educational progress. The telephone number at Thornley Campus is 843.574.6882.

If you feel that you may be eligible for the VA GI Bill or South Carolina state benefits, contact the VET Center located on Thornley Campus in Bldg. 740, room 201. It could take between three to six months to apply, get approval and receive funds from the VA. You should be prepared to pay your tuition, fees, expenses and instructional fees for this period. You assume full responsibility for all fees at the time of registration. You are responsible for informing the TTC Veterans Assistance office of changes in enrollment status or changes in dependency or marital status. You are responsible for keeping your address and phone numbers current with the Admissions office and Veterans Assistance office. Your benefits may be suspended or terminated if problems arise with your certification and we cannot contact you.

Educational Programs for Veterans/ Dependents and Active and Reserve Personnel

Qualified veteran students may be considered for various financial aid or scholarship programs. All students are encouraged to apply for all available programs. Additional information is available at the Veterans Assistance office, the Financial Aid office or by visiting TTC’s website.

Montgomery G.I. Bill (Chapter 30): This program provides 36 months of full-time benefits to veterans or military personnel who have served at least 24 months of active duty and made a $100 per month contribution in the first 12 months of service ($1,200). These students also may qualify for VA work-study positions when available.

Veterans Readiness & Employment-VR&E (Chapter 31): This program pays tuition, fees, textbooks, supplies and equipment, plus a monthly subsistence allowance to veterans with a compensable service-connected disability. Tutorial assistance is

available but must be requested as early in the semester as possible. Eligible students may qualify for VA work-study positions when available.

Dependents Educational Assistance (Chapter 35): This program provides benefits for spouses and children of veterans who, resulting from active duty, died of service related causes or have been awarded 100 percent total permanent disability. There are many different eligibility requirements for this program. Please visit the Veterans Assistance office for help in completing your application. These students may qualify for VA work-study positions when available.

S.C. State Free Tuition Program: Children of veterans, who were either residents of South Carolina at the time of entry into service or who have resided in South Carolina for at least one year, may be eligible for the S.C. State Free Tuition Program. The program requires that the veteran served honorably in the armed forces of the United States during a period of war and either died while in service or as a direct result of service; or was a POW or MIA; or is totally or permanently disabled as determined by the Veterans Administration; or has been awarded the Congressional Medal of Honor. The veteran, if disabled, must still reside in South Carolina. These students are not eligible for VA work-study positions unless they also receive Chapter 35 benefits.

Payment of Benefits - Chapter 35 Survivors' and Dependents' Educational Assistance Program (DEA): Eligible students receive benefits based on their particular VA benefit program and training time while at TTC. The Veterans Administration processes benefit payments at the end of the month for that month’s enrollment. Advance payment of the first partial month’s benefit and second full month’s benefit is available if you are entering college for the first time or you were previously enrolled but have a break of 30 days or more between sessions. The VA must receive advance pay request at least 60 days before and not more than 120 days before the beginning of each semester. Advance payment is not applicable to Chapter 33 students.

Choice Act-Section 702-Choice Act allows for all Covered students to be charged in-state tuition. Covered students are those students enrolled using GI Bill Benefits.

Post-9/11 Veterans Educational Assistance Act of 2008: This educational program (Chapter 33 of Title 38 U.S. Code) provides benefits for individuals who served on active-duty on or after Sept. 11, 2001, for at least 30 continuous days and were honorably discharged due to a service-connected disability, or served for an aggregate period ranging from 90 days to 36 months. Additional information is available at www.gibill.va.gov.

The Department of Veterans Affairs determines the payment of benefits for Summer Semester or any accelerated terms by calculating the number of whole weeks in the semester or term and the number of credit hours of enrollment for that semester/term. Contact the Department of Veterans Affairs if you have questions concerning your benefit calculation for accelerated terms.

Active-Duty Tuition Assistance: This program pays all or part of tuition costs for college courses taken while on active-duty. Each branch of the military administers it. Check with your Military Education office for program requirements. Tuition assistance forms should be processed through your Military Education Center and submitted to the TTC Business office well in advance of the start of the semester.

Other Resources for Dependents: Educational loans may be available through Army Relief, Navy Relief and Air Force Aid societies for qualified children or spouses of active-duty servicepersons, servicepersons who died while on active-duty or retired status, or veterans on retired status.

General Information: The federal, state or private agency administering these educational assistance programs has sole responsibility for determining eligibility and awarding benefits. Most federal VA educational benefits are payable for 10 years from the date of discharge or the date of eligibility. Generally, veterans with dishonorable discharge are not eligible. Federal or state legislation reserves the right to change, without notice, any programs and guidelines for eligibility.

Tutorial Assistance

You may receive monetary assistance from the Department of Veterans Affairs to pay a tutor, if one is required. All chapters except Chapter 31 must pay the tutor directly and then submit a claim to the US Department of Veterans Affairs for reimbursement for tutorial assistance. Those students who receive benefits under the S.C. State Free Tuition program only are not eligible for tutorial reimbursement. Additional information is available at TTC's Veterans Assistance office.

Veterans Work-Study Program

There are a limited number of VA work-study positions for veterans attending college in the Charleston area. The Department of Veterans Affairs pays minimum wage for this work. These wages are tax-free to veterans.

Receiving Benefits

As a student receiving VA educational benefits, you may receive benefits only for those courses that are required for graduation in your major. In addition, the VA will not pay for audited courses or courses for which you have already received transfer credit or received a passing grade. The VA pays benefits for courses that are repeated if the courses are within the program outline and were previously failed. *Note: The Department of VA will not pay benefits for online developmental or bridge courses.*

Transfer Credit

Students receiving VA benefits must submit their military and/or college transcripts to the TTC Admissions office no later than the end of the second semester of enrollment at TTC. TTC's VA office will process enrollment certifications for only two semesters pending prior credit evaluations.

Repeat Course Policy

VA students receiving educational benefits payments will not be certified for a remedial course on a third attempt when the grade of "U" has been earned. Students receiving the S.C. State Free Tuition program will not have tuition waived for a remedial course on a third attempt when the grade of "U" has been earned.

Veterans Tuition Payments

All veteran students, with the exception of Chapter 33/100% entitlements, Chapter 31, Veterans Readiness & Employment (VR&E) and South Carolina State Free Tuition recipients, are required to pay their tuition and fees by the deadline date published on TTC's Website. These payments are due without regard to your educational benefits from the U.S. Department of Veterans Affairs. Contact the Veterans Assistance office on Thornley Campus in Building 410 or call 843.574.6105 for additional information.

In accordance with Title 38 US Code 3679 subsection (e), TTC adopts the following additional provisions for any students using U.S. Department of Veteran Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33) or Veterans Readiness & Employment (VR&E) (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

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

However, to qualify for this provision, such students may be required to provide Chapter 33 Certificate of Eligibility (or its equivalent) or for Chapter 31, VR&E's Counselor's authorization. Additional information is available at www.va.gov and https://www.tridenttech.edu/student/help/military/st_milfinaid.htm.

VA Certification for Online Courses

VA recognizes hybrid and SOM courses as in-seat. At least one in-seat course is required under Chapter 33 rules and guidelines for MHA-Military Housing allowance payments. Refer to enrollment requirements for full-time status with the Veterans Assistance office.

2024-2025 TTC Catalog - Associate Degree Competencies/Core Curriculum

Associate Degree

Associate Degree Competencies and Core Curriculum

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Associate Degree Competencies Core Curriculum

Associate Degree Requirements

Every associate degree at Trident Technical College is designed to promote the success of our graduates, whether in their career or in their next academic program. In support of that goal, associate degree programs include general education courses, courses specific to their major, and courses that give students training in technology.

Technology Requirement

Associate degree programs will include at least one course that ensures that each graduate has had access to and training in computer technology appropriate to his or her career field.

General Education Core Curriculum Requirements

Rationale

TTC's general education core curriculum is derived from the belief that quantitative reasoning, information literacy, and global citizenship are essential competencies of the workplace and provide the necessary foundation for lifelong learning. To foster development of these essential competencies, the core curriculum provides associate degree students with a broad base of knowledge and exposure to the perspectives and methodologies of various disciplines.

General Education Competencies

Quantitative Reasoning: The ability to think critically and apply basic empirical skills to interpret and solve problems that are relevant to real world experiences.

Information Literacy: The ability to conduct valid research, synthesize findings, and communicate effectively in either written, spoken, or visual modalities.

Global Citizenship: The ability to develop intercultural awareness of regional, national, and global communities.

General Education Requirements

To graduate with an associate degree, candidates must meet the requirements of the core curriculum as specified in their program. All programs identify core courses from each of the following categories for a minimum of 15 hours of general education.

Communication

ENG 101 English Composition I 3
SPC 205 Public Speaking 3

Humanities

ART 101 Art History and Appreciation 3
HIS 104 World History I 3
HIS 105 World History II 3
MUS 105 Music Appreciation 3
PHI 101 Introduction to Philosophy 3
PHI 110 Ethics 3

Behavioral/Social Sciences

ANT 101 General Anthropology 3
ECO 210 Macroeconomics 3
ECO 211 Microeconomics 3
GEO 102 World Geography 3
PSC 201 American Government 3
PSY 201 General Psychology 3
SOC 101 Introduction to Sociology 3

Mathematics/Natural Sciences

AST 101 Solar System Astronomy 4
BIO 101 Biological Science I 4
BIO 210 Anatomy and Physiology I 4
MAT 110 College Algebra 3
MAT 115 Analytical Foundations for Calculus 4
MAT 120 Probability and Statistics 3
MAT 123 Contemporary College Mathematics 3
MAT 155 Contemporary Mathematics 3
MAT 170 Algebra, Geometry and Trigonometry I 3

Other (includes all courses listed above and the following)

ART 105 Film as Art 3
ART 107 History of Early Western Art 3
ART 108 History of Western Art 3
ART 210 History of Graphic Design 3
BIO 211 Anatomy and Physiology II 4
CHM 110 College Chemistry I 4
CPT 101 Introduction to Computers 3
ENG 102 English Composition II 3
ENG 260 Advanced Technical Communications 3
IDS 109 First Year Experience Seminar 3
SPC 209 Interpersonal Communication 3
THE 101 Introduction to Theater 3

Note: No course can count in more than one category.

Note
Candidates for certificate and diploma programs may substitute transfer-level English or math courses for those required by their programs with departmental approval.

Program Exit Examination

Associate degree programs may require applicants for graduation to complete a nonpunitive exit examination. Students required to take an examination will be notified by mail.

College Policies

Any exceptions to the academic guidelines contained in this catalog will be at the discretion of the Vice President for Academic Affairs.

2024-2025 TTC Catalog - Areas Of Interest

Business
Culinary and Hospitality
Education
Engineering and Manufacturing
Health, Human and Personal Services
Information Technology
Law and Criminal Justice
Maintenance and Technical Trades
Media and Visual Arts
University Transfer

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Associate Degrees

- Accounting
- Administrative Office Technology
- Business Administration - Marketing
- Business Administration - Small Business - Entrepreneurship
- General Technology - Cosmetology
- Hospitality and Tourism Management
- Management - Fire Service
- Management - Human Resources
- Management - Leadership Development
- Management - Supply Chain Management
- University Transfer - Associate in Arts

Certificates

- Beverage Service Essentials
- Bookkeeping
- Business Applications Solutions Specialist
- Commercial Truck Driving
- Cosmetology
- Digital Marketing Communications
- Esthetics
- Event Management
- Food and Beverage Operations

- Hospitality Entrepreneurship
- Hotel Operations
- International Business
- Leadership Development
- Medical Office Specialist
- Nail Technology
- Professional Accountancy
- Small Business - Entrepreneurship
- Sustainable Agriculture
- Tax Preparer

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Associate Degrees

- Baking and Pastry Arts
- Culinary Arts Technology
- General Technology - Marine Stewardship
- Hospitality and Tourism Management
- University Transfer - Associate in Arts

Certificates

- Advanced Culinary Arts
- Baking and Pastry
- Beverage Service Essentials
- Cake Decorating
- Culinary Arts
- Dietary Manager
- Event Management
- Food and Beverage Operations
- Hospitality Entrepreneurship
- Hotel Operations
- Sustainable Agriculture

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Associate Degrees

- Early Care and Education - Child Care Professional
- Early Care and Education - Inclusive Care
- Early Care and Education - School-Age and Youth Development
- University Transfer - Associate in Arts

Certificates

- American Sign Language
- Child Care Management
- Early Childhood Development
- Infant and Toddler Development
- Special Education

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Associate Degrees

- Civil Engineering Technology
- Electronics Engineering Technology
- General Technology - Electrician - Industrial and Construction
- General Technology - Engineering Design Graphics
- General Technology - Industrial Maintenance
- General Technology - Machine Tool Technology
- General Technology - Mechatronics
- General Technology - Welding
- Mechanical Engineering Technology
- University Transfer - Associate in Science

2+2 Transfer Programs

- Engineering Transfer - Civil
- Engineering Transfer - Computer
- Engineering Transfer - Construction
- Engineering Transfer - Electrical
- Engineering Transfer - Mechanical

Certificates

- 3D Printing Additive Manufacturing
- Advanced Automation - Mechatronics
- Aircraft Assembly Technology

- Arboriculture Management
- Architectural Drafting
- Athletic Field Maintenance
- Basic CNC Operations
- Basic Industrial Work Skills
- Civil Drafting
- Civil Engineering - Transfer to The Citadel
- Computer Aided Design I
- Computer Aided Design II
- Computer Engineering Transfer - The Citadel
- Computer Numeric Control Machinist
- Construction Engineering Transfer - The Citadel
- Construction Management
- Electrical Drafting
- Electrical Engineering Transfer -The Citadel
- Electrician - Construction
- Electrician - Industrial
- Engineering Assistant - Engineer Pathway
- Engineering Assistant - Technician Pathway
- Facilities Maintenance
- Gas Metal Arc Welding Fundamentals
- Industrial Mechanic
- Introduction to Arc Welding
- Mechanical Drafting
- Mechanical Engineering Transfer - The Citadel
- Surveying

- Sustainable Horticulture and Landscaping
- Technology Core
- Welding Gas Metal Arc and Flux Cored Arc
- Welding Gas Tungsten Arc
- Welding Shielded Metal Arc

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Associate Degrees

- Dental Hygiene
- Emergency Medical Technology
- General Technology - Cosmetology
- General Technology - Expanded Duty Dental Assisting
- General Technology - Medical Assisting
- Health Information Management
- Human Services
- Management - Fire Service
- Medical Laboratory Technology
- Nursing - ADN
- Nursing - ADN - LPN to ADN
- Occupational Therapy Assistant
- Physical Therapist Assistant
- Radiologic Technology
- Respiratory Care
- Surgical Technology
- University Transfer - Associate in Science
- Veterinary Technology

Diplomas

- Expanded Duty Dental Assisting
- Medical Assisting

- Practical Nursing

Certificates

- Advanced Emergency Medical Technician
- American Sign Language
- Cosmetology
- Emergency Medical Technician
- Esthetics
- Health Sciences Preparation
- Medical Office Specialist
- Nail Technology
- Paramedic
- Pre-Nursing
- Tax Preparer

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Associate Degrees

- Commercial Graphics - Animation
- Commercial Graphics - Digital Media
- Commercial Graphics - Graphic Design
- Computer Technology - Computer Programming
- Computer Technology - Information Systems Specialist
- Cybersecurity
- Health Information Management
- Network Systems Management
- University Transfer - Associate in Science

Certificates

- Basic Digital Production
- Business Applications Solutions Specialist
- Cisco Certified Network Associate
- CompTIA Systems Specialist
- Computer Animation
- Computer Graphics
- Cybersecurity
- Database Administrator
- Internet Programming
- Linux Systems Administration
- Microcomputer Programming

- Multimedia Design
- Network Security
- Online Media Production
- Virtualization and Cloud Computing
- Website Design

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Associate Degrees

- Criminal Justice
- Homeland Security Management
- Paralegal

Certificates

- Cybersecurity
- Paralegal Certificate
- Police Pre-Academy Training

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Associate Degrees

- Aircraft Maintenance Technology
- Commercial Graphics - Photography
- General Technology - Air Conditioning and Refrigeration Mechanics
- General Technology - Automotive Technology
- General Technology - Avionics Maintenance Technology
- General Technology - Electrical Line Worker Technology
- General Technology - Electrician - Industrial and Construction
- General Technology - Industrial Maintenance
- General Technology - Machine Tool Technology
- General Technology - Marine Engineering Technology
- General Technology - Mechatronics
- General Technology - Welding
- Horticulture Technology
- Media Arts Production - Film Production
- Media Arts Production - Post Production
- Media Arts Production - TV and Media Production

Certificates

- 3D Printing Additive Manufacturing
- Advanced Air Conditioning and Refrigeration Mechanics
- Advanced Automation - Mechatronics
- Advanced CNC Operations

- Air Conditioning - Refrigeration Mechanics
- Aircraft Assembly Technology
- Aircraft Maintenance Airframe
- Aircraft Maintenance General
- Aircraft Maintenance Powerplant
- Athletic Field Maintenance
- Automotive Servicing
- Avionics Maintenance Technology
- Basic CNC Operations
- Basic Industrial Work Skills
- Civil Drafting
- Commercial and Industrial ACR Systems
- Commercial Truck Driving
- CompTIA Systems Specialist
- Computer Numeric Control Machinist
- Construction Management
- Digital Photography
- Edible Crops
- Electrical Line Worker - Advanced
- Electrical Line Worker - Third Class
- Electrician - Construction
- Electrician - Industrial
- Facilities Maintenance
- Film Production
- Gas Metal Arc Welding Fundamentals
- Golf Course Maintenance

- Illustration
- Industrial Mechanic
- Introduction to Arc Welding
- Landscape Design
- Landscape Management
- Photography
- Sustainable Agriculture
- Welding Gas Metal Arc and Flux Cored Arc
- Welding Gas Tungsten Arc
- Welding Shielded Metal Arc

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Associate Degrees

- Commercial Graphics - Animation
- Commercial Graphics - Digital Media
- Commercial Graphics - Graphic Design
- Commercial Graphics - Photography
- Media Arts Production - Film Production
- Media Arts Production - Post Production
- Media Arts Production - TV and Media Production
- University Transfer - Associate in Arts

Certificates

- Art Foundations
- Basic Digital Production
- Cinematography
- Computer Animation
- Computer Graphics
- Design Basics
- Digital Marketing Communications
- Digital Media Software
- Digital Photography
- Film Production
- Illustration
- Multimedia Design

- Online Media Production
- Photography
- Radio Production
- Social Media Design
- Storytelling for the Screen
- Website Design

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Associate Degrees

- University Transfer - Associate in Arts
- University Transfer - Associate in Science

2+2 Transfer Programs

- Engineering Transfer - Civil
- Engineering Transfer - Computer
- Engineering Transfer - Construction
- Engineering Transfer - Electrical
- Engineering Transfer - Mechanical

Certificates

- Civil Engineering - Transfer to The Citadel
- Construction Engineering Transfer - The Citadel
- Electrical Engineering Transfer -The Citadel
- Introductory University Studies
- Mechanical Engineering Transfer - The Citadel
- Pre-Nursing
- University Studies

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Program Listing

Associate Degrees

- Accounting
- Administrative Office Technology
- Aircraft Maintenance Technology
- Baking and Pastry Arts
- Business Administration - Marketing
- Business Administration - Small Business - Entrepreneurship
- Civil Engineering Technology
- Commercial Graphics - Animation
- Commercial Graphics - Digital Media
- Commercial Graphics - Graphic Design
- Commercial Graphics - Photography
- Computer Technology - Computer Programming
- Computer Technology - Information Systems Specialist
- Criminal Justice
- Culinary Arts Technology
- Cybersecurity
- Dental Hygiene
- Early Care and Education - Child Care Professional
- Early Care and Education - Inclusive Care
- Early Care and Education - School-Age and Youth Development
- Electronics Engineering Technology

- Emergency Medical Technology
- General Technology - Air Conditioning and Refrigeration Mechanics
- General Technology - Automotive Technology
- General Technology - Avionics Maintenance Technology
- General Technology - Cosmetology
- General Technology - Electrical Line Worker Technology
- General Technology - Electrician-Industrial and Construction
- General Technology - Engineering Design Graphics
- General Technology - Expanded Duty Dental Assisting
- General Technology - Industrial Maintenance
- General Technology - Machine Tool Technology
- General Technology - Marine Engineering Technology
- General Technology - Marine Stewardship
- General Technology - Mechatronics
- General Technology - Medical Assisting
- General Technology - Welding
- Health Information Management
- Homeland Security Management
- Horticulture Technology
- Hospitality and Tourism Management
- Human Services
- Management - Fire Service
- Management - Human Resources
- Management - Leadership Development
- Management - Supply Chain Management
- Mechanical Engineering Technology

- Media Arts Production - Film Production
- Media Arts Production - Post Production
- Media Arts Production - TV and Media Production
- Medical Laboratory Technology
- Network Systems Management
- Nursing - ADN
- Nursing - ADN - LPN to ADN
- Occupational Therapy Assistant
- Paralegal Degree
- Physical Therapist Assistant
- Radiologic Technology
- Respiratory Care
- Surgical Technology
- Associate in Arts
- Associate in Science
- Veterinary Technology

Diplomas

- Expanded Duty Dental Assisting
- Medical Assisting
- Practical Nursing

Certificates

- 3D Printing Additive Manufacturing
- Advanced Air Conditioning and Refrigeration Mechanics Program
- Advanced Automation - Mechatronics
- Advanced CNC Operations

- Advanced Culinary Arts
- Advanced Emergency Medical Technician
- Air Conditioning - Refrigeration Mechanics
- Aircraft Assembly Technology
- Aircraft Maintenance Airframe
- Aircraft Maintenance General
- Aircraft Maintenance Powerplant
- American Sign Language
- Arboriculture Management
- Architectural Drafting
- Art Foundations
- Athletic Field Maintenance
- Automotive Servicing
- Avionics Maintenance Technology
- Baking and Pastry
- Basic CNC Operations
- Basic Digital Production
- Basic Industrial Work Skills
- Beverage Service Essentials
- Bookkeeping
- Business Applications Solutions Specialist
- Cake Decorating
- Child Care Management
- Cinematography
- Cisco Certified Network Associate
- Civil Drafting

- Civil Engineering - Transfer to The Citadel
- Commercial and Industrial ACR Systems
- Commercial Truck Driving
- CompTIA Systems Specialist
- Computer Aided Design I
- Computer Aided Design II
- Computer Animation
- Computer Engineering Transfer - The Citadel
- Computer Graphics
- Computer Numeric Control Machinist
- Construction Engineering - Transfer to The Citadel
- Construction Management
- Cosmetology
- Culinary Arts
- Cybersecurity Certificate
- Database Administrator
- Design Basics
- Dietary Manager
- Digital Marketing Communications
- Digital Media Software
- Digital Photography
- Early Childhood Development
- Edible Crops
- Electrical Drafting
- Electrical Engineering Transfer -The Citadel
- Electrical Line Worker - Advanced

- Electrical Line Worker - Third Class
- Electrician - Construction
- Electrician - Industrial
- Emergency Medical Technician
- Engineering Assistant - Engineer Pathway
- Engineering Assistant - Technician Pathway
- Esthetics
- Event Management
- Facilities Maintenance
- Film Production
- Food and Beverage Operations
- Gas Metal Arc Welding Fundamentals
- Golf Course Maintenance
- Health Sciences Preparation
- Hospitality Entrepreneurship
- Hotel Operations
- Illustration
- Industrial Mechanic
- Infant and Toddler Development
- International Business
- Internet Programming
- Introduction to Arc Welding
- Introductory University Studies
- Landscape Design
- Landscape Management
- Leadership Development

- Linux Systems Administration
- Mechanical Drafting
- Mechanical Engineering Transfer - The Citadel
- Medical Office Specialist
- Microcomputer Programming
- Multimedia Design
- Nail Technology
- Network Security
- Online Media Production
- Paralegal Certificate
- Paramedic
- Photography
- Police Pre-Academy Training
- Pre-Nursing
- Professional Accountancy
- Radio Production
- Small Business - Entrepreneurship
- Social Media Design
- Special Education
- Storytelling for the Screen
- Surveying
- Sustainable Agriculture
- Sustainable Horticulture and Landscaping
- Tax Preparer
- Technology Core
- University Studies

- Virtualization and Cloud Computing
- Website Design
- Welding Gas Metal Arc and Flux Cored Arc
- Welding Gas Tungsten Arc
- Welding Shielded Metal Arc

2024-2025 TTC Catalog - Business Technology

TTC’s Business Technology programs are designed to prepare students for entry-level positions in business, industry and government. Responding to the needs of the growing business community, the Business Technology associate degree and certificate programs combine academic theory with hands-on training using state-of-the-art equipment. TTC’s associate degree programs in Accounting, Administrative Office Technology, Business Administration, Computer Technology and Management are accredited by the Accreditation Council for Business Schools and Programs.

Associate Degree

Accounting

Administrative Office Technology

Business Administration - Marketing

Business Administration - Small Business - Entrepreneurship

Computer Technology - Computer Programming

Computer Technology - Information Systems Specialist

Cybersecurity

General Technology - Cosmetology

Management - Fire Service

Management - Human Resources

Management - Leadership Development

Management - Supply Chain Management

Network Systems Management

Certificate

Bookkeeping

Business Applications Solutions Specialist

Cisco Certified Network Associate

CompTIA Systems Specialist

Cosmetology

Cybersecurity

Digital Marketing Communications

Esthetics

International Business

Internet Programming

Leadership Development

Linux Systems Administration

Medical Office Specialist

Microcomputer Programming

Nail Technology

Network Security

Professional Accountancy

Small Business - Entrepreneurship

Tax Preparer

Virtualization and Cloud Computing

2024-2025 TTC Catalog

Accounting

Associate in Applied Science in Accounting
60 Credit Hours

The Accounting program prepares students for entry-level positions in the field of accounting. Typical jobs include full-charge bookkeeper and staff accountant.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
ENG 101 English Composition I 3
MAT 120 Probability and Statistics 3
ENG 102 English Composition II 3
or
ENG 260 Advanced Technical Communications 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

ACC 102 Accounting Principles II 3
ACC 111 Accounting Concepts 3
ACC 112 Organizational Accounting 3
ACC 124 Individual Tax Procedures 3
ACC 150 Payroll Accounting 3
ACC 201 Intermediate Accounting I 3
ACC 202 Intermediate Accounting II 3
ACC 203 Intermediate Accounting III 3
ACC 224 Business Taxation 3
ACC 240 Computerized Accounting 3
ACC 245 Accounting Applications 3
ACC 260 Auditing 3
ACC 265 Not-for-Profit Accounting 3
or
ACC 246 Integrated Accounting Software 3

ACC 275 Selected Topics in Accounting 3
BUS 121 Business Law I 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Administrative Office Technology

Associate in Applied Science in Administrative Office Technology

Office Administration Career Path

60 Credit Hours

The Administrative Office Technology program prepares students for office work in business, industry, medical or legal offices. Students who have successfully completed the Certified Professional Secretaries exam or the Certified Administrative Professional exam may receive semester credit. See the department head for more information.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3
PHI 110 Ethics 3

REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
AOT 105 Keyboarding 3
AOT 110 Document Formatting 3
AOT 134 Office Communications 3
AOT 161 Records Management 3
or
AOT 252 Medical Systems and Procedures 3
AOT 251 Administrative Systems and Procedures 3
CPT 172 Microcomputer Database 3
CPT 174 Microcomputer Spreadsheets 3
CPT 179 Microcomputer Word Processing 3

CPT 270 Advanced Microcomputer Applications 3
CPT 290 Microcomputer Multimedia Concepts and Applications 3
MGT 101 Principles of Management 3
MGT 270 Managerial Communication 3
MKT 130 Customer Service Principles 3

Total: 42

Electives

Select one course from the following:

AHS 104 Medical Vocabulary-Anatomy 3
BUS 101 Introduction to Business 3
CWE Cooperative Work Experience *
LEG 135 Introduction to Law and Ethics 3

Total: 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Bookkeeping

Certificate in Applied Science

24 Credit Hours

This program prepares you for entry-level accounting positions with basic skills in accounting, individual tax and payroll. Training in computerized accounting and electronic spreadsheets utilizing accounting applications is included in the program.

Major Requirements

ACC 102 Accounting Principles II 3
ACC 111 Accounting Concepts 3
ACC 112 Organizational Accounting 3
ACC 124 Individual Tax Procedures 3
ACC 150 Payroll Accounting 3
ACC 240 Computerized Accounting 3
ACC 245 Accounting Applications 3
ENG 101 English Composition I 3

Total: 24

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Business Administration - Marketing

Associate in Applied Science in Business Administration

Marketing Career Path

60 Credit Hours

The Marketing career path prepares students for careers in various aspects of marketing, including retailing, sales and advertising. Students will gain knowledge in the areas of pricing, promotion and distribution of goods and services as well as the concepts of merchandising.

Students can earn only one Business Administration degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
CPT 101 Introduction to Computers 3
or
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
BAF 101 Personal Finance 3
BUS 101 Introduction to Business 3
BUS 121 Business Law I 3
BUS 220 Business Ethics 3
CPT 282 Information Systems Security 3
MGT 101 Principles of Management 3

MGT 255 Organizational Behavior 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3
MKT 130 Customer Service Principles 3
MKT 140 E-Marketing 3
MKT 245 Promotional Strategies 3
MKT 250 Consumer Behavior 3
MKT 260 Marketing Management 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Business Administration - Small Business - Entrepreneurship

Associate in Applied Science in Business Administration

Small Business/Entrepreneurship Career Path

60 Credit Hours

The Small Business/Entrepreneurship career path prepares students for owning and operating a small business. Students will gain knowledge in all aspects of small-business ownership including management, risk and day-to-day operation. Students will also develop a business plan.

Students can earn only one Business Administration degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
CPT 101 Introduction to Computers 3
or
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
BAF 101 Personal Finance 3
BUS 101 Introduction to Business 3
BUS 121 Business Law I 3
BUS 220 Business Ethics 3

BUS 250 Introduction to International Business 3
CPT 174 Microcomputer Spreadsheets 3
CPT 282 Information Systems Security 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MGT 201 Human Resource Management 3
MGT 255 Organizational Behavior 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3
MKT 260 Marketing Management 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Business Applications Solutions Specialist

Certificate in Applied Science
15 Credit Hours

The Business Application Solutions Specialist program prepares students for business applications specialist jobs requiring advanced skills. Microsoft Windows, Word, Excel, Access, PowerPoint and software integration are thoroughly explored in this program. This program helps students prepare for Microsoft Office Specialist certificate exams.

Major Requirements

ACC 245 Accounting Applications 3
or
CPT 174 Microcomputer Spreadsheets 3
CPT 172 Microcomputer Database 3
CPT 179 Microcomputer Word Processing 3
CPT 270 Advanced Microcomputer Applications 3
CPT 290 Microcomputer Multimedia Concepts and Applications 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Cisco Certified Network Associate

Certificate in Applied Science
15 Credit Hours

This program is delivered by TTC in its role as a Cisco Networking Academy and prepares students for entry-level jobs in companies with TCP/IP networks. Students learn the fundamentals of networking and internetworking, basic router and switch configuration, and troubleshooting in a diverse learning environment that includes instructor-led, web-based and hands-on lab settings. The program qualifies students to pursue a Cisco Certified Network Associate (CCNA) credential.

Major Requirements

IST 166 Network Fundamentals 3
IST 201 Cisco Internetworking Concepts 3
IST 202 Cisco Router Configuration 3
IST 203 Advanced Cisco Router Configuration 3
IST 206 Cisco Remote Access 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

CompTIA Systems Specialist

Certificate in Applied Science
21 Credit Hours

This program teaches students to properly install, configure, upgrade, troubleshoot and repair microcomputer hardware. Students also learn basic installation and troubleshooting knowledge of DOS/Windows. Basic knowledge of networking technology and practices is covered. This program helps prepare students for the Comp TIA Security+, A+, Network+, Server+, Cloud+ and Linux+ certification exams.

Major Requirements

CPT 209 Computer Systems Management 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 198 Cloud Essentials 3
IST 253 LAN Service and Support 3
IST 293 IT and Data Assurance I 3

Total: 21

Admission into this program requires proof of high school graduation (or GED) and qualifying placement levels.

2024-2025 TTC Catalog

Computer Technology - Computer Programming

Associate in Applied Science in Computer Technology

Computer Programming Career Path

60 Credit Hours

The Computer Programming degree track provides technical competencies required to be productive in an entry-level programming position. This degree track provides skills in a variety of modern programming languages such as Java, JavaScript, Java, JQuery, SQL, CSS, HTML, PHP, C#, and Python. Graduates will be equipped with programming skills to find employment as business-application programmers, database managers, web developers, and system analysts. These valuable skills enable graduates to work in areas of, for example, information technologies in government, small businesses, and public or private corporations.

Students can earn only one Computer Technology degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

CPT 114 Computers and Programming 3
CPT 162 Introduction to Web Page Publishing 3
CPT 167 Introduction to Programming Logic 3

CPT 187 Object-Oriented Logic and Design 3
CPT 202 SQL Programming I 3
CPT 237 Advanced Java Programming 3
CPT 242 Database 3
CPT 275 Computer Technology Senior Project 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 239 Datum and JavaScript 3

Total: 33

Electives

Select four courses from the following options.

Microcomputer Programming Option

CPT 180 Shell Scripting 3
CPT 244 Data Structures 3

Internet Programming Option

CPT 238 Internet Scripting 3
CPT 262 Advanced Web Page Publishing 3
CPT 283 PHP Programming I 3

Database Administration Option

IST 272 Relational Database 3
IST 274 Database Administration 3

Cooperative Work Experience/Internship Option

CWE Cooperative Work Experience *
IST 286 Technical Support Internship I 3

Other Option

CPT 208 Special Topics in Computer Technology 3
CPT 297 Big Data Analytics 3
CPT 298 Introduction to Software as a Service (SaaS) 3
IST 235 Handheld Computer Programming 3
IST 290 Special Topics in Information Sciences 3

*Hours vary.

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying placement levels.

2024-2025 TTC Catalog

Computer Technology - Information Systems Specialist

Associate in Applied Science in Computer Technology

Information Systems Specialist Career Path

60 Credit Hours

This program prepares students for careers in a variety of information technology areas. It gives students a foundation in computer hardware, computer applications, computer programming, the Internet and computer networking. Information systems administrators are involved in many different aspects of computer technology and can expect to employ their skills in a variety of ways to assist all computer users in commercial settings.

Students can earn only one Computer Technology degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

CPT 114 Computers and Programming 3
CPT 162 Introduction to Web Page Publishing 3
CPT 172 Microcomputer Database 3

CPT 174 Microcomputer Spreadsheets 3
CPT 180 Shell Scripting 3
CPT 209 Computer Systems Management 3
CPT 242 Database 3
CPT 264 Systems and Procedures 3
CPT 282 Information Systems Security 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3

Total: 33

Electives

Select four courses from the following options.

Microcomputer Programming Option

CPT 167 Introduction to Programming Logic 3
CPT 187 Object-Oriented Logic and Design 3
CPT 237 Advanced Java Programming 3
CPT 244 Data Structures 3

Business Application Solutions Specialist Option

CPT 179 Microcomputer Word Processing 3
CPT 270 Advanced Microcomputer Applications 3
CPT 290 Microcomputer Multimedia Concepts and Applications 3

Internet Programming Option

CPT 238 Internet Scripting 3
CPT 262 Advanced Web Page Publishing 3
CPT 283 PHP Programming I 3
IST 239 Datum and JavaScript 3

Database Administration Option

CPT 202 SQL Programming I 3
IST 272 Relational Database 3
IST 274 Database Administration 3

Linux Systems Administration Option

IST 191 Linux System Administration 3
IST 192 Linux Network Applications 3
IST 198 Cloud Essentials 3

Cisco Certified Network Associate Option

IST 201 Cisco Internetworking Concepts 3
IST 202 Cisco Router Configuration 3
IST 203 Advanced Cisco Router Configuration 3

CompTIA Systems Specialist Option

IST 293 IT and Data Assurance I 3

Other Electives

ARV 217 Computer Imagery 3
ARV 227 Website Design I 3
CPT 208 Special Topics in Computer Technology 3
CPT 297 Big Data Analytics 3
CPT 298 Introduction to Software as a Service (SaaS) 3
IST 235 Handheld Computer Programming 3
IST 290 Special Topics in Information Sciences 3

Any CPT or IST course not required in the career path.

Total: 12

Cooperative Work Experience/Internship Option

CWE Cooperative Work Experience *
IST 286 Technical Support Internship I 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Cosmetology

Certificate in Applied Science
39 Credit Hours

This certificate prepares students for entry into the cosmetology career field by providing instruction in basic skills and theory. The program also prepares students to take their licensure exams and emphasizes service skills necessary for salon and spa employment.

Major Requirements

COS 101 Fundamentals of Cosmetology 3
COS 106 Facials and Makeup 3
COS 108 Nail Care 3
COS 112 Shampoo and Rinses 4
COS 114 Hair Shaping 4
COS 116 Hair Styling I 4
COS 120 Manikin Practice 3
COS 201 Salon Management 3
COS 206 Chemical Hair Waving 3
COS 210 Hair Coloring 3
COS 220 Cosmetology Clinical Practice I 3
COS 222 Cosmetology Clinical Practice II 3

Total: 39

Admission into this program requires proof of high school graduation (no correspondence schools) or GED and qualifying placement levels.

2024-2025 TTC Catalog

Cybersecurity Certificate

Certificate in Applied Science
30 Credit Hours

This certificate program is designed for individuals who have experience or training in systems and network operations. It is designed to provide expertise in information assurance and cybersecurity to prepare you for employment in the fast growing field of cybersecurity. It is ideal if you are employed or are pursuing employment in a business that includes a cybersecurity workforce as part of the organization. This program presents the knowledge and skills needed to develop and implement security of systems and infrastructure in business and industry. This program will help you prepare for COMPTIA Linux+, Security +, EC-Council Certified Ethical Hacking, as well as a number of other certification exams.

CPT 282 Information Systems Security 3
CYB 269 Digital Forensics 3
CYB 285 Cybersecurity Capstone 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 191 Linux System Administration 3
IST 291 Fundamentals of Network Security I 3
IST 293 IT and Data Assurance I 3
IST 294 IT and Data Assurance II 3

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Cybersecurity

Associate in Applied Science in Cybersecurity

63 Credit Hours

The Cybersecurity program prepares students for entry level careers in cybersecurity, network security, computer/digital forensics, information assurance, and other cyber defense positions. Students will learn the principles and techniques used to identify, search, seize, and analyze digital media and to conduct cyber investigations of endpoint vulnerabilities and attacks. Courses will provide instruction in file access and reconstruction, digital forensics analysis, cryptography, programming, network systems operations and security, network traffic monitoring and threat detection, incident response, risk assessment, and contingency planning. Students enrolled in this program will have access to resources provided by TTC's academic partners including: Cisco, Microsoft, VMware, CompTIA, Red Hat, and Amazon Web Services (AWS).

General Education Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

CPT 282 Information Systems Security 3
CRJ 232 White Collar Crime Investigation 3
or
CRJ 233 Cyber Crimes and the Law 3
CYB 269 Digital Forensics 3
CYB 285 Cybersecurity Capstone 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 191 Linux System Administration 3

IST 193 Linux Security Administration 3
IST 201 Cisco Internetworking Concepts 3
IST 202 Cisco Router Configuration 3
IST 291 Fundamentals of Network Security I 3
IST 293 IT and Data Assurance I 3
IST 294 IT and Data Assurance II 3

Total: 42

Electives

Select two courses from the following:

CPT 162 Introduction to Web Page Publishing 3
CPT 180 Shell Scripting 3
CPT 202 SQL Programming I 3
CPT 209 Computer Systems Management 3
CPT 242 Database 3
CPT 298 Introduction to Software as a Service (SaaS) 3
CWE 113 Cooperative Work Experience 3
CWE 123 Cooperative Work Experience 3
CYB 201 Cybersecurity Operations 3
CYB 286 CYB 286 Cybersecurity Internship I 3
ENG 260 Advanced Technical Communications 3
HSM 101 Introduction to Homeland Security 3
HSM 104 Terrorism and Homeland Security 3
HSM 203 Intelligence Analysis and Security Management 3
HSM 206 Critical Infrastructure Protection 3
IST 192 Linux Network Applications 3
IST 198 Cloud Essentials 3
IST 206 Cisco Remote Access 3
IST 253 LAN Service and Support 3
IST 298 Advanced Cloud Computing 3

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Database Administrator

Certificate in Applied Science

15 Credit Hours

This certificate prepares students for employment with companies looking for database professionals. Starting with a basic computer class, students progress course by course to a skill level where they can work in any database environment. The curriculum uses both MS Access and SQL Server to teach students how to design, build, manipulate and maintain business database management systems.

Major Requirements

CPT 114 Computers and Programming 3
CPT 202 SQL Programming I 3
CPT 242 Database 3
IST 272 Relational Database 3
IST 274 Database Administration 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Digital Marketing Communications

Digital Marketing Communications Certificate

Certificate in Applied Science

21 Credit Hours

This certificate is designed to develop the sophisticated set of skills needed to prepare the student for the shift in the digital marketing environment. Students will be able to apply and better understand consumer behavior, digital marketing, search engine optimization, web analytics, and creative advertising strategies.

Major Requirements

CPT 174 Microcomputer Spreadsheets 3
CPT 297 Big Data Analytics 3
MKT 101 Marketing 3
MKT 140 E-Marketing 3
MKT 240 Advertising 3
MKT 245 Promotional Strategies 3
MKT 250 Consumer Behavior 3

Total: 21

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Esthetics

Certificate in Applied Science
22 Credit Hours

This certificate program teaches basic skin care, various facials, makeup application, hair removal, sanitation procedures and salon management practices. The program also prepares students to take their licensure exams and emphasizes service skills necessary for salon and spa employment.

Major Requirements

COS 151 Dermatology 3
COS 156 Fundamentals of Massage 2
COS 158 Facial Treatments 2
COS 160 Electric Current Facial Treatments 1
COS 162 Hair Removal 1
COS 164 Basic Makeup and Application 3
COS 167 Professional Practices for Estheticians 1
COS 172 Infection Control for Estheticians 1
COS 173 Human Anatomy for Estheticians 2
COS 221 Facial Practice I 2
COS 223 Facial Practice II 2
COS 227 Facial Practice III 2

Total: 22

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Cosmetology

Associate in Applied Science in General Technology

Cosmetology Career Path

60 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path is designed for students who plan to work in the industry as cosmetologists, skin therapists or nail technicians and wish to complete an associate degree. The career path prepares students to take their licensure exams and emphasizes service skills necessary for salon and spa employment.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ GEN	Select from General Education	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty

Select a minimum of 28 credit hours from the following.*

COS 101 Fundamentals of Cosmetology 3
COS 106 Facials and Makeup 3
COS 108 Nail Care 3
COS 112 Shampoo and Rinses 4
COS 114 Hair Shaping 4
COS 116 Hair Styling I 4

COS 120 Manikin Practice 3
COS 131 Bacteria and Other Infectious Agents 2
COS 132 Science of Nail Technology 2
COS 133 Basic Procedures 3
COS 135 The Business of Nail Technology 2
COS 136 Fundamentals of Artificial Nail Application 4
COS 137 Fundamentals of Nail Art 1
COS 151 Dermatology 3
COS 156 Fundamentals of Massage 2
COS 158 Facial Treatments 2
COS 160 Electric Current Facial Treatments 1
COS 162 Hair Removal 1
COS 164 Basic Makeup and Application 3
COS 167 Professional Practices for Estheticians 1
COS 172 Infection Control for Estheticians 1
COS 173 Human Anatomy for Estheticians 2
COS 206 Chemical Hair Waving 3
COS 210 Hair Coloring 3
COS 220 Cosmetology Clinical Practice I 3
COS 221 Facial Practice I 2
COS 222 Cosmetology Clinical Practice II 3
COS 223 Facial Practice II 2
COS 224 Nail Practice I 4
COS 227 Facial Practice III 2

*Select courses from a current Cosmetology, Nails or Esthetics certificate program, following the recommended sequence of courses for that program. Students should work closely with academic advisor to choose appropriate courses.

Total: 28

Secondary Technical Specialty**

COS 201 Salon Management 3
MGT 120 Small Business Management 3
MGT 201 Human Resource Management 3
MKT 130 Customer Service Principles 3

** Secondary Technical Specialty requirements may be fulfilled with COS courses not already applied to the Primary path or Additional Requirements in lieu of or in any combination with MGT courses.

Total: 12

Additional Requirements

Select a minimum of 5 credit hours of COS courses not used in the Primary Technical Specialty

Total: 5

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

International Business

Certificate in Applied Science
18 Credit Hours

The certificate includes study in the areas of international relations and business. Students study the protection of information and equipment in computer systems along with cultural and political issues within the international business community.

Major Requirements

BUS 220 Business Ethics 3
BUS 250 Introduction to International Business 3
CPT 282 Information Systems Security 3
MGT 270 Managerial Communication 3
PSC 220 Introduction to International Relations 3
TRL 106 Export/Import 3

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Internet Programming

Certificate in Applied Science
18 Credit Hours

This certificate program prepares students for employment with companies looking for internet programming professionals. Students progress course by course to a skill level where they can work in any internet programming environment. The curriculum uses many of the current programming languages to teach students how to design, build, manipulate and maintain business websites.

Major Requirements

CPT 114 Computers and Programming 3
CPT 162 Introduction to Web Page Publishing 3
CPT 238 Internet Scripting 3
CPT 262 Advanced Web Page Publishing 3
CPT 283 PHP Programming I 3
IST 239 Datum and JavaScript 3

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Leadership Development

Certificate in Applied Science
21 Credit Hours

This certificate program provides you with the necessary skills to succeed in the competitive workplace of the 21st century. Studies in leadership, supervision, business technology and decision-making augment the traditional skills required in business and industry.

Major Requirements

BUS 220 Business Ethics 3
MGT 101 Principles of Management 3
MGT 201 Human Resource Management 3
MGT 235 Production Management 3
MGT 240 Management Decision Making 3
MGT 255 Organizational Behavior 3
MGT 270 Managerial Communication 3

Total: 21

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Linux Systems Administration

Certificate in Applied Science
15 Credit Hours
This program prepares you for computer network operations specialist jobs. It is ideal if you are employed in a business that uses the UNIX operating system in a LAN or WAN environment.

Major Requirements

IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 191 Linux System Administration 3
IST 192 Linux Network Applications 3
IST 198 Cloud Essentials 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Management - Fire Service

Associate in Applied Science in Management

Fire Service Career Path

60 Credit Hours

The Fire Service career path is designed to help meet the educational needs of fire service employees and provide a foundation of skills necessary for effective leadership. This career path is designed for students who have completed specified training at the S.C. Fire Academy (SCFA) or other approved training program.

Students can earn only one Management degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3	

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
BUS 121 Business Law I 3
CPT 282 Information Systems Security 3
MGT 101 Principles of Management 3
MGT 240 Management Decision Making 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3

ELE MGF	Twenty-four hours of SCFA credit	24	*

Total: 45

*Students may receive a maximum of nine credit hours for SCFA 1000 series courses completed. All other SCFA course work submitted for exemption credit must be at the 2000 series level or above.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Management - Human Resources

Associate in Applied Science in Management

Human Resources Career Path

60 Credit Hours

The Human Resources career path prepares students for careers in human resources departments of business and governments. Students will study the challenges facing human resources organizations in social and economic environments. This program offers a practical understanding of wages, salaries, hiring and benefit systems.

Students can earn only one Management degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
ACC 150 Payroll Accounting 3
BAF 101 Personal Finance 3
BUS 101 Introduction to Business 3
BUS 121 Business Law I 3
BUS 136 Compensation and Benefits Analysis 3
BUS 220 Business Ethics 3
CPT 282 Information Systems Security 3
MGT 101 Principles of Management 3

MGT 201 Human Resource Management 3
MGT 210 Employee Selection and Retention 3
MGT 240 Management Decision Making 3
MGT 255 Organizational Behavior 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Management - Leadership Development

Associate in Applied Science in Management

Leadership Development Career Path

60 Credit Hours

The Leadership Development career path develops leadership skills and provides students with an understanding of the basic functions of management. The program prepares students with a foundation to build personal skills, develop effective work teams, and enhance workplace and individual performance. The program includes a major emphasis in the development of group and individual competencies in effective oral communication skills.

Students can earn only one Management degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
BAF 101 Personal Finance 3
BUS 101 Introduction to Business 3
BUS 121 Business Law I 3
BUS 220 Business Ethics 3
BUS 250 Introduction to International Business 3
CPT 282 Information Systems Security 3

MGT 101 Principles of Management 3
MGT 201 Human Resource Management 3
MGT 210 Employee Selection and Retention 3
MGT 235 Production Management 3
MGT 240 Management Decision Making 3
MGT 255 Organizational Behavior 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Management - Supply Chain Management

Associate in Applied Science in Management

Supply Chain Management Career Path

60 Credit Hours

The Supply Chain Management career path provides students with the basic concepts of traditional supply chain techniques and the activities involved in sourcing, procurement and manufacturing of the final products or services provided. The Supply Chain career path combines traditional costing methods with a focus on long-term sustainability of the organization and relationships with employees, supplies, vendors, customers and the public.

Students can earn only one Management degree in a single career path.

Accreditation

Accounting, Business and Management, Computer Technology and Administrative Office Technology
Accreditation Council for Business Schools and Programs
11520 West 119th St.
Overland Park, KS 66213

General Education Core Requirements

ECO 210 Macroeconomics 3
or
ECO 211 Microeconomics 3
ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

ACC 111 Accounting Concepts 3
BUS 101 Introduction to Business 3
BUS 121 Business Law I 3
BUS 220 Business Ethics 3
CPT 282 Information Systems Security 3
LOG 125 Transportation Logistics 3
LOG 215 Supply Chain Management 3

LOG 235 Traffic Management 3
LOG 240 Purchasing Logistics 3
MGT 101 Principles of Management 3
MGT 201 Human Resource Management 3
MGT 235 Production Management 3
MGT 240 Management Decision Making 3
MKT 101 Marketing 3
TRL 106 Export/Import 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Medical Office Specialist

Certificate in Applied Science
24 Credit Hours

The Medical Office Specialist program prepares you for front office work in a physician's office. Courses cover medical vocabulary, document production and office procedures.

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
AOT 110 Document Formatting 3
AOT 134 Office Communications 3
AOT 252 Medical Systems and Procedures 3
CPT 174 Microcomputer Spreadsheets 3
CPT 179 Microcomputer Word Processing 3
CPT 290 Microcomputer Multimedia Concepts and Applications 3
MGT 101 Principles of Management 3

Total: 24

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Microcomputer Programming

Certificate in Applied Science
18 Credit Hours

This certificate program prepares students for employment with companies looking for programming professionals. Students progress in a step-by-step, class-by-class methodology that takes them to a skill level where they can work in any programming environment. The curriculum uses many of the current programming languages.

Major Requirements

CPT 114 Computers and Programming 3
CPT 167 Introduction to Programming Logic 3
CPT 180 Shell Scripting 3
CPT 187 Object-Oriented Logic and Design 3
CPT 237 Advanced Java Programming 3
CPT 244 Data Structures 3

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Nail Technology

Certificate in Applied Science
18 Credit Hours

This program teaches basic nail care, various nail additions, repair wraps, sanitation procedures and basic salon management practices. The program also prepares students to take their licensure exams and emphasizes service skills necessary for salon and spa employment.

Major Requirements

COS 131 Bacteria and Other Infectious Agents 2
COS 132 Science of Nail Technology 2
COS 133 Basic Procedures 3
COS 135 The Business of Nail Technology 2
COS 136 Fundamentals of Artificial Nail Application 4
COS 137 Fundamentals of Nail Art 1
COS 224 Nail Practice I 4

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Network Security

Certificate in Applied Science
27 Credit Hours

This program is designed for individuals who have experience or training in network operations. This program prepares you for network security specialist jobs. It is ideal if you are employed or are pursuing employment in a business that uses a LAN and WAN environment to accomplish its business objectives. This program presents the knowledge and skills needed to use the Internet as a secure link between corporate and partner LANs. It is designed to help you prepare for a number of industry certification examinations including CompTIA: A+, Network+, Security+, and Red Hat Certified System Administrator (RHCSA).

Major Requirements

CPT 209 Computer Systems Management 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 191 Linux System Administration 3
IST 201 Cisco Internetworking Concepts 3
IST 202 Cisco Router Configuration 3
IST 293 IT and Data Assurance I 3
IST 294 IT and Data Assurance II 3
or
IST 268 Computer Forensics 3
or
IST 291 Fundamentals of Network Security I 3

Total: 27

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Network Systems Management

Associate in Applied Science in Network Systems Management

60 Credit Hours

The Network Systems Management program prepares students for entry-level or higher positions as help desk and PC support, network administrators, network managers, network designers, network engineers, system administrators, routing and switching specialists, Linux/UNIX system administrators or network security specialists. Students have the option of acquiring a set of basic skills in a number of information technology disciplines or focusing in one discipline (for example, Cisco, Cloud, Linux or Microsoft System Administration) to acquire the higher-level skill sets of a specialist in one or more of these concentrations. With five career paths, students can design the degree program which best fits their job requirements or their own goals and ambitions. Most courses help students prepare for individual IT vendor or vendor-neutral certification exams. The Network Systems Management Department is an academy partner with Cisco, Microsoft, VMware, CompTIA, Linux Red Hat, and Amazon Web Services (AWS).

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

CPT 209 Computer Systems Management 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 198 Cloud Essentials 3
IST 201 Cisco Internetworking Concepts 3
IST 202 Cisco Router Configuration 3

IST 203 Advanced Cisco Router Configuration 3
IST 253 LAN Service and Support 3
IST 260 Network Design 3
IST 293 IT and Data Assurance I 3
IST 298 Advanced Cloud Computing 3
MGT 270 Managerial Communication 3
or
ENG 260 Advanced Technical Communications 3

Total: 39

Electives

Select two courses from the following.

Cisco Network Administration Career Path Electives

IST 206 Cisco Remote Access 3

Linux System Administration Career Path Electives

IST 191 Linux System Administration 3
IST 192 Linux Network Applications 3

Virtualization and Cloud Computing Career Path Electives

CPT 180 Shell Scripting 3
CPT 298 Introduction to Software as a Service (SaaS) 3
IST 253 LAN Service and Support 3
IST 298 Advanced Cloud Computing 3

Work Experience and Internship Career Path Electives

CWE Cooperative Work Experience *
IST 286 Technical Support Internship I 3

*Up to six credit hours

Other Electives

CPT 162 Introduction to Web Page Publishing 3
CPT 172 Microcomputer Database 3
CPT 242 Database 3
IST 206 Cisco Remote Access 3
MKT 130 Customer Service Principles 3

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Professional Accountancy

Certificate in Applied Science
24 Credit Hours

This certificate is designed for the nontraditional market not currently being served by the associate degree in accounting. For example, some individuals may need 24 or more accounting hours to advance in civil service or private business accounting positions.

Major Requirements

ACC 124 Individual Tax Procedures 3
ACC 201 Intermediate Accounting I 3
ACC 202 Intermediate Accounting II 3
ACC 203 Intermediate Accounting III 3
ACC 224 Business Taxation 3
ACC 245 Accounting Applications 3
ACC 260 Auditing 3
ACC 265 Not-for-Profit Accounting 3

Total: 24

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Small Business - Entrepreneurship

Certificate in Applied Science
21 Credit Hours

This certificate offers students the opportunity to focus on entrepreneurial aspects of business. Instructional topics include evaluation, planning, communication, supervision and business database management. The certificate also gives students the foundation to successfully venture into the 21st century in a small business environment.

Major Requirements

BUS 250 Introduction to International Business 3
CPT 282 Information Systems Security 3
MGT 120 Small Business Management 3
MGT 201 Human Resource Management 3
MGT 255 Organizational Behavior 3
MKT 130 Customer Service Principles 3
MKT 240 Advertising 3

Total: 21

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Tax Preparer

Certificate in Applied Science

15 Credit Hours

This certificate provides students with knowledge of accounting principles related to payroll and tax preparation, including federal and state/local tax procedures, payroll accounting and accounting software.

Major Requirements

ACC 124 Individual Tax Procedures 3
ACC 150 Payroll Accounting 3
ACC 224 Business Taxation 3
ACC 246 Integrated Accounting Software 3
BUS 121 Business Law I 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Virtualization and Cloud Computing

Certificate in Applied Science
30 Credit Hours

This Program is designed for individuals with experience in computer technology that need additional expertise in virtualization and cloud computing. The program prepares students for certifications in CompTIA Cloud Essentials and Cloud+, VMware VCA and VCP. This certificate program is designed to provide expertise in virtualization and cloud computing technologies to prepare you for employment in this fast-growing field. It is ideal if you are employed or are pursuing employment in a business that includes virtualization and/or cloud technologies as a primary focus or a business that uses the cloud or virtualized technologies to support its business model. This program presents the knowledge and skills needed to develop, implement, and troubleshoot virtualized and cloud computing systems, infrastructure, and security for business and industry. This program will help you prepare for additional industry certifications such as Red Hat Certified Systems Administrator, Red Hat OpenStack, Red Hat System Systems Engineer and AWS Certified Cloud Professional exams.

Major Requirements

CPT 180 Shell Scripting 3
CPT 298 Introduction to Software as a Service (SaaS) 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 166 Network Fundamentals 3
IST 190 Linux Essentials 3
IST 191 Linux System Administration 3
IST 192 Linux Network Applications 3
IST 198 Cloud Essentials 3
IST 253 LAN Service and Support 3
IST 298 Advanced Cloud Computing 3

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog - Culinary Institute of Charleston

The Culinary Institute of Charleston (CIC) responds to the expanding educational needs of one of the area's largest industries. The $5.7 billion economic impact of tourism in the greater Charleston area includes 105,000 related jobs, according to the Center for Business Research of the Metro Charleston Chamber of Commerce. Within South Carolina, hospitality and culinary employment is significant. The economic impact of this industry continues to increase nationally and internationally. Education within this field offers a range of employment opportunities and career progression.

In culinary arts studies, CIC offers Associate in Applied Science degrees in Culinary Arts Technology and Baking and Pastry Arts. CIC also offers certificates in Culinary Arts, Advanced Culinary Arts, Baking and Pastry, Cake Decorating, and Dietary Manager.

In hospitality and tourism studies, CIC offers the Associate in Applied Science degree in Hospitality and Tourism Management, which is accredited by the Accreditation Commission for Programs in Hospitality Administration. CIC also offers certificates in Beverage Service Essentials, Event Management, Food and Beverage Operations, Hospitality Entrepreneurship, and Hotel Operations.

Classes focus on quality in product and service. Hands-on training takes place within the modern CIC laboratories and through cooperative industry work experiences.

CIC Mission
The Culinary Institute of Charleston at TTC provides students with technical and interpersonal skills valued by our industry and community partners to empower students when seeking employment.

CIC Vision

The Culinary Institute of Charleston at TTC will create a foundation for student excellence, commitment to our community and enrichment of the industry that we serve.

Associate Degree

Baking and Pastry Arts

Culinary Arts Technology

General Technology - Marine Stewardship

Hospitality and Tourism Management

Certificate

Advanced Culinary Arts

Baking and Pastry

Beverage Service Essentials

Cake Decorating

Culinary Arts

Dietary Manager

Event Management

Food and Beverage Operations

Hospitality Entrepreneurship

Hotel Operations

2024-2025 TTC Catalog

Advanced Culinary Arts

Certificate in Applied Science

12 Credit Hours

This certificate is designed for culinarians interested in advancing their skills in nutritional, ethnic and national cuisine. These courses are stackable and part of the AAS Culinary Arts Technology program.

Major Requirements

CUL 118 Nutritional Cooking 3
CUL 215 Cuisine of the Americas 3
CUL 216 International Cuisine 3

Total: 9

Electives

Select one course from the following:

CUL 178 Farm to Plate 3
CUL 180 French Regional Cuisines 3
CUL 187 Cuisines of Asia 3
CUL 188 Italian Regional Cuisine 3

Total: 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites or completion of other certificates before starting the program.

2024-2025 TTC Catalog

Baking and Pastry Arts

Associate in Applied Science in Baking and Pastry

69 Credit Hours

The Baking and Pastry career path prepares students for positions as professional bakers and patisseries in food service operations, including hotels, bakeries, confectionary shops, resort restaurants and catering operations. Students study both theory and practical kitchen applications in the kitchens, bakeshops and restaurants of the Culinary institute of Charleston at Trident Technical College and in food service establishments throughout the Charleston area as part of their externships.

General Education Core Requirements

IDS 109 First Year Experience Seminar 3

REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

BKP 101 Introduction to Baking 3
BKP 102 Introduction to Pastries 3
BKP 109 Introduction to Cakes and Decorating 3
BKP 181 Candies and Confectionaries 3
BKP 182 Artisan Breads 3
BKP 183 Plated Desserts 3
BKP 210 Advanced Cakes 3
BKP 236 Baking and Pastry Capstone 3
CUL 104 Introduction to Culinary Arts 3
CUL 105 Kitchen Fundamentals 3
CUL 118 Nutritional Cooking 3
CUL 128 Culinary Management and Human Resources 3
CUL 129 Storeroom and Purchasing 3
CUL 171 Food and Beverage Controls 3
CUL 238 Culinary Marketing 3

CUL 277 SCWE in Culinary Arts 3

Total: 48

Electives

Choose two of the following courses.

BKP 113 Laminated Doughs and Pastries 3
BKP 184 Savory Baking 3
BKP 185 Ice Cream and Frozen Desserts 3
BKP 222 Chocolate and Sugar 3
BKP 223 Wedding Cakes and Decorating Techniques 3
BKP 224 Jams, Jellies, Chutneys and Tarts 3

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Baking and Pastry

Certificate in Applied Science
15 Credit Hours

The Baking and Pastry certificate program prepares students for baking and pastry positions in a variety of settings including fine dining restaurants and retail bakeries. Students study both theory and practical applications of baking and cake decorating. All culinary courses are presented in culinary theory with application in kitchens of the Culinary Institute of Charleston at Trident Technical College.

Major Requirements

BKP 101 Introduction to Baking 3
BKP 102 Introduction to Pastries 3
BKP 109 Introduction to Cakes and Decorating 3
CUL 104 Introduction to Culinary Arts 3
CUL 105 Kitchen Fundamentals 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Beverage Service Essentials

Certificate in Applied Science

12 Credit Hours

The Beverage Service Essentials program is designed for students interested in acquiring fundamental knowledge of the beverage management industry through study of history, origins, product identification, purchase, storage, sales and service of alcoholic and nonalcoholic beverages and related products. The program also addresses legal requirements and the achievement of industry credentials for safe, legal service of alcoholic beverages.

Major Requirements

HOS 250 Beverage Service Management 3
HOS 251 Introduction to Wine 3
HOS 264 Food and Beverage Pairing 3
HOS 265 Hotel, Restaurant and Travel Law 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Cake Decorating

Certificate in Applied Science

12 Credit Hours

This certificate is designed for pastry students interested in obtaining skills specific to cake decorating. These courses are stackable and part of the AAS Baking and Pastry Technology program.

Major Requirements

BKP 105 Cake Calligraphy 3
BKP 210 Advanced Cakes 3
BKP 223 Wedding Cakes and Decorating Techniques 3
BKP 227 Specialty Cakes 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Culinary Arts Technology

Associate in Applied Science in Culinary Arts Technology

69 Credit Hours

The Culinary Arts degree program prepares students for positions as professional cooks in food service operations including hotels, motels, resort restaurants and catering operations. Students study both theory and practical kitchen applications of the requirements of quality food preparation.

All culinary courses are presented in culinary theory with application in kitchens of the Culinary Institute of Charleston at Trident Technical College.

General Education Core Requirements

IDS 109 First Year Experience Seminar 3

REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

BKP 101 Introduction to Baking 3
BKP 102 Introduction to Pastries 3
CUL 104 Introduction to Culinary Arts 3
CUL 105 Kitchen Fundamentals 3
CUL 112 Classical Foundations of Cooking 3
CUL 118 Nutritional Cooking 3
CUL 123 American Bistro 3
CUL 128 Culinary Management and Human Resources 3
CUL 129 Storeroom and Purchasing 3
CUL 171 Food and Beverage Controls 3
CUL 215 Cuisine of the Americas 3
CUL 216 International Cuisine 3
CUL 236 Restaurant Capstone 3
CUL 238 Culinary Marketing 3
CUL 277 SCWE in Culinary Arts 3

CUL 280 Butchery and Charcuterie 3

Total: 48

Electives

Select six hours from any course with a CUL or BKP prefix not used to meet a major requirement.

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Culinary Arts

Certificate in Applied Science
12 Credit Hours

The Culinary Arts certificate prepares students for entry-level cooking positions in restaurants, hotels, catering and other foodservice operations. Students study theory and practice hands-on applications of preparing, cooking and presenting food. This program meets the minimum standards for the American Culinary Federation certification level of Certified Culinarian.

Major Requirements

CUL 104 Introduction to Culinary Arts 3
CUL 105 Kitchen Fundamentals 3
CUL 112 Classical Foundations of Cooking 3
CUL 123 American Bistro 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Dietary Manager

Certificate in Applied Science

30 Credit Hours

This certificate is designed for students who want to work in the culinary nutrition areas of schools, retirement communities and health care facilities. Students will be able to sit for the Dietary Manager certification upon completion of this certificate.

Major Requirements

CUL 103 Nutrition 3
CUL 104 Introduction to Culinary Arts 3
CUL 105 Kitchen Fundamentals 3
CUL 118 Nutritional Cooking 3
CUL 128 Culinary Management and Human Resources 3
CUL 129 Storeroom and Purchasing 3
CUL 171 Food and Beverage Controls 3
CUL 230 Therapeutic Nutrition 3
CUL 277 SCWE in Culinary Arts 3
CUL 297 Advanced Stagerie 3

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Event Management

Certificate in Applied Science
24 Credit Hours

The Event Management certificate program provides an overview of the event management industry to prepare students for entry-level positions in event management. Students will learn the process of planning events from the initial conception phase through delivery including sales, transportation, logistics, food and beverage management, and service, and gain general competency in providing support for delivery and management of such events.

Major Requirements

HOS 140 The Hospitality Industry 3
HOS 157 Hospitality Service 3
HOS 161 Event Management 3
HOS 164 Travel and Tourism 3
HOS 250 Beverage Service Management 3
HOS 258 Convention Management 3
HOS 265 Hotel, Restaurant and Travel Law 3

Total: 21

Electives

Select one course from Hospitality and Tourism Management Electives.

Total: 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Food and Beverage Operations

Certificate in Applied Science
18 Credit Hours

The Food and Beverage Operations certificate is designed for students interested in the development of food and beverage management skills for professional development, career enhancement and personal enrichment.

Major Requirements

HOS 140 The Hospitality Industry 3
HOS 146 Restaurant Operations 3
HOS 157 Hospitality Service 3
HOS 160 Purchasing for Hospitality 3
HOS 250 Beverage Service Management 3
HOS 265 Hotel, Restaurant and Travel Law 3

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

General Technology - Marine Stewardship

Associate in Applied Science in General Technology

Marine Stewardship Career Path

63 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path prepares students for positions as professional cooks and will provide students with the opportunity and fundamental knowledge to work aboard Unites States Merchant Mariner vessels upon successful completion of TTC's initial course work in the General Education Core and Primary Technical Specialty requirements. Students study both theory and practical kitchen applications of the requirements of quality food preparation and demonstrate and apply culinary skills while working with a mentor as an apprentice in both culinary and baking/pastry.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

IDS 109 First Year Experience Seminar 3

REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Primary Technical Specialty Requirements

BKP 101 Introduction to Baking 3
BKP 102 Introduction to Pastries 3
BKP 109 Introduction to Cakes and Decorating 3
CUL 104 Introduction to Culinary Arts 3

CUL 105 Kitchen Fundamentals 3
CUL 112 Classical Foundations of Cooking 3
CUL 118 Nutritional Cooking 3
CUL 123 American Bistro 3
CUL 171 Food and Beverage Controls 3
CUL 215 Cuisine of the Americas 3
CUL 216 International Cuisine 3
CUL 178 Farm to Plate 3 *
or
CUL 180 French Regional Cuisines 3 *
or
CUL 186 Mediterranean Cuisine 3 *
or
CUL 187 Cuisines of Asia 3 *
or
CUL 188 Italian Regional Cuisine 3 *
or
CUL 242 Vegetarian and Vegan Cuisine 3 *

*CUL Elective (Choose One) for 3 credits.

Total: 36

Secondary Technical Specialty Requirements

CUL 001 Culinary Non-equivalent *
CUL 277 SCWE in Culinary Arts 3 **
CUL 297 Advanced Stagerie 3 **
MNT 001 Marine and Nautical Technology Non-Equiivalent *
FST 001 Fire Science Technology Non-equivalent *

*Students may receive a maximum of 2 CUL credits, 2 FAST credits, and 2 MONT credits for non-equivalent course work.

**Students will receive experiential credit upon completion of requisite hours of steward training in a galley apprenticeship.

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Hospitality and Tourism Management

Associate in Applied Science in Hospitality and Tourism Management

69 Credit Hours

The Hospitality and Tourism Management degree program prepares students for career paths within the hospitality industry including lodging, food and beverage service, tourism, and event segments.

Accreditation

Accreditation Commission for Programs in Hospitality Administration
P.O. Box 400
Oxford, MD 21654

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3
or
ENG 102 English Composition II 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

HOS 132 Hospitality Communications and Leadership 3
HOS 140 The Hospitality Industry 3
HOS 146 Restaurant Operations 3
HOS 150 Hotel Management 3
HOS 157 Hospitality Service 3
HOS 159 Hospitality Accounting Applications 3
HOS 160 Purchasing for Hospitality 3
HOS 161 Event Management 3
HOS 164 Travel and Tourism 3

HOS 245 Hospitality Marketing 3
HOS 250 Beverage Service Management 3
HOS 256 Hospitality Management Concepts 3
HOS 262 Hospitality Software Applications 3
HOS 265 Hotel, Restaurant and Travel Law 3
HOS 272 SCWE in Hospitality/Tourism Management 3
HOS 294 Hospitality Business Development 3

Total: 48

Electives

Select two HOS electives from list below.

HOS 190 Issues in Culinary Arts and Hospitality Abroad 3
HOS 251 Introduction to Wine 3
HOS 258 Convention Management 3
HOS 264 Food and Beverage Pairing 3
HOS 267 Destination Wedding Planning 3
HOS 298 Special Topics in Hospitality and Tourism 3

Total: 6

Program Learning Outcomes

Students graduating from the Hospitality and Tourism Management A.A.S. program will be able to:

1. Identify and apply the knowledge and skills necessary for hospitality and tourism operations.
2. Develop and integrate a core set of business skills necessary to successfully operate a hospitality and tourism organization.
3. Demonstrate competence in the communication skills necessary for hospitality and tourism management.
4. Formulate business decisions in hospitality and tourism management.
5. Evaluate leadership principles necessary in the diverse and global hospitality and tourism industry.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Hospitality Entrepreneurship

Certificate in Applied Science

18 Credit Hours

This certificate provides the skills for students to open and operate their own hospitality or culinary related business.

Major Requirements

HOS 262 Hospitality Software Applications 3
HOS 294 Hospitality Business Development 3
HOS 298 Special Topics in Hospitality and Tourism 3
HOS 159 Hospitality Accounting Applications 3
or
CUL 171 Food and Beverage Controls 3
HOS 245 Hospitality Marketing 3
or
CUL 238 Culinary Marketing 3
HOS 256 Hospitality Management Concepts 3
or
CUL 128 Culinary Management and Human Resources 3

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog

Hotel Operations

Certificate in Applied Science
24 Credit Hours

The Hotel Operations certificate will equip students with the skills necessary to understand and apply basic hotel industry concepts including knowledge of operations, guest services, software applications, sales and marketing. Students will be prepared for entry-level employment in hotels, bed and breakfast operations, timeshares, resorts and other lodging operations and related fields.

Major Requirements

HOS 140 The Hospitality Industry 3
HOS 150 Hotel Management 3
HOS 157 Hospitality Service 3
HOS 160 Purchasing for Hospitality 3
HOS 164 Travel and Tourism 3
HOS 258 Convention Management 3
HOS 262 Hospitality Software Applications 3
HOS 265 Hotel, Restaurant and Travel Law 3

Total: 24

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Please be aware that certain certificates offered by the Culinary Institute of Charleston require multiple prerequisites before starting the certificate.

2024-2025 TTC Catalog - Engineering and Construction

TTC’s Division of Engineering and Construction provides programs addressing the needs of the engineering, manufacturing, electrical and construction industries. Not only are jobs in these sectors considered high demand; they are also high wage positions. Associate degrees and certificates are offered in the areas of engineering transfer, engineering technology, electrical line work, residential electrician, automation technology, and horticulture technology. Engineering Technology programs include Electronics, Mechanical and Civil engineering technology. Engineering transfer areas include Construction, Electrical, Mechanical and Civil engineering which contain courses that transfer to several four-year engineering institutions. The 2+2 agreement with The Citadel allows students to take their entire first two years of an engineering bachelor’s degree at TTC, then transfer to The Citadel to complete their degree. Students interested in any of the division’s programs should enjoy science and math, and should have a curious mind. Students will learn from experienced professionals in an industrial setting where equipment/instrument use and safety are emphasized.

Associate Degree

Civil Engineering Technology

Electronics Engineering Technology

General Technology - Electrical Line Worker Technology

General Technology - Electrician - Industrial and Construction

General Technology - Engineering Design Graphics

General Technology - Mechatronics

Horticulture Technology

Mechanical Engineering Technology

Certificate

Advanced Automation - Mechatronics

Arboriculture Management

Architectural Drafting

Athletic Field Maintenance

Civil Drafting

Civil Engineering - Transfer to The Citadel

Computer Aided Design I

Computer Aided Design II

Computer Engineering Transfer - The Citadel

Construction Engineering Transfer - The Citadel

Construction Management

Edible Crops

Electrical Drafting

Electrical Engineering Transfer -The Citadel

Electrical Line Worker - Advanced

Electrical Line Worker - Third Class

Electrician - Construction

Electrician - Industrial

Engineering Assistant - Engineer Pathway

Engineering Assistant - Technician Pathway

Golf Course Maintenance

Landscape Design

Landscape Management

Mechanical Drafting

Mechanical Engineering Transfer - The Citadel

Surveying

Sustainable Agriculture

Sustainable Horticulture and Landscaping

2024-2025 TTC Catalog

Advanced Automation - Mechatronics

Certificate in Applied Science
32 Credit Hours

This certificate provides the training necessary to prepare students for positions as automation technicians, mechatronics technicians or robotics technicians in an advanced manufacturing environment.

Major Requirements

AMT 105 Robotics and Automated Control I 3
AMT 205 Robotics and Automated Control II 3
EEM 151 Motor Controls I 4
EEM 221 DC AC Drives 3
EEM 251 Programmable Controllers 3
EET 113 Electrical Circuits I 4
EET 212 Industrial Robotics 3
EIT 110 Principles of Instrumentation 3
EIT 244 Computers and PLCs in Instrumentation 3
IMT 161 Mechanical Power Applications 4

Total: 32

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Arboriculture Management

Certificate in Applied Science
24 Credit Hours

This certificate introduces and develops skills in current arboriculture practices. Students will be trained to select, establish and maintain trees.

Major Requirements

CWE 113 Cooperative Work Experience 3
HRT 106 Ornamentals 2
HRT 107 Woody Ornamentals 2
HRT 121 Commercial Irrigation 3
HRT 125 Soils 4
HRT 144 Plant Pests 3
HRT 150 Arboriculture I 3
HRT 240 Pesticides 4

Total: 24

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Architectural Drafting

Certificate in Applied Science
19 Credit Hours

This certificate is designed for students with little or no drafting experience who want to move into architectural graphics. The certificate includes learning computer applications, exploration of construction methods, knowledge of construction materials and a study of architectural history.

Major Requirements

AET 111 Architectural Computer Graphics I 3
AET 202 History of Architecture 3
AET 221 Architectural Computer Graphics II 4
CET 120 Construction Materials 3
EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3

Total: 19

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Athletic Field Maintenance

Certificate in Applied Science
20 Credit Hours

This certificate addresses current needs for the maintenance of athletic fields, including football, baseball and soccer. Students would be trained to maintain turf in addition to the specialty skills required of athletic fields.

Major Requirements

CWE 113 Cooperative Work Experience 3
HRT 121 Commercial Irrigation 3
HRT 125 Soils 4
HRT 144 Plant Pests 3
HRT 240 Pesticides 4
HRT 241 Turf Management 3

Total: 20

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Civil Drafting

Certificate in Applied Science
13 Credit Hours

This certificate is designed for students with little or no drafting experience who want to work with land development drawings. The certificate includes an introduction to land surveying and GIS software.

Major Requirements

CET 204 Fundamentals of Surveying 4
EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3
EGT 257 Advanced Civil CAD 3

Total: 13

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Civil Engineering - Transfer to The Citadel

Certificate in Applied Science
39 Credit Hours

This certificate allows you to select course work to transfer into The Citadel's Bachelor of Science in civil engineering curriculum.

Major Requirements

Please see an advisor for actual course offering times, scheduling and prerequisites.

BIO 101 Biological Science I 4
EGR 260 Engineering Statics 3
EGR 262 Engineering Dynamics 3
EGR 275 Introduction to Engineering/Computer Graphics 3
EGR 282 Introduction to Civil Engineering 2
EGR 285 Engineering Surveying I 3
EGR 286 Engineering Surveying II 3
EGR 295 Engineering Surveying Lab I 1
EGR 296 Engineering Surveying Lab II 1
MAT 141 Analytic Geometry and Calculus II 4
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4

Total: 39

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Students must have completed the prerequisite for each course listed.

2024-2025 TTC Catalog

Civil Engineering Technology

Associate in Applied Science in Civil Engineering Technology

63 Credit Hours

The Civil Engineering Technology program prepares students to perform at the technician level in engineering design, drafting, surveying and construction. Employers of Civil Engineering Technology graduates include engineering consultants, surveying firms, state and federal governments, public works, construction companies, highway departments and soil- and materials-testing firms. Graduates typically obtain jobs as building inspectors, construction superintendent trainees and soil- and concrete-testing technicians, and under the supervision of engineers. They aid engineers in the design of steel and concrete structures, highways, storm drainage, land development, sewage and water supply systems. They also obtain jobs as members of survey teams or in computer-aided drafting and design.

General Education Core Requirements

ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

CET 110 International Residential Codes 4
CET 120 Construction Materials 3
CET 127 Building Construction and Print Reading 4
CET 204 Fundamentals of Surveying 4
CET 215 Soil Mechanics Fundamentals 2
CET 218 Hydraulics 3
CET 230 Construction Management 3
CET 245 Cost Estimating 3
CET 246 Environmental Systems Technology 3
EGR 110 Introduction to Computer Environment 3
EGR 194 Statics and Strength of Materials 4
EGR 290 Numerical Applications in Engineering Technology 3

EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3
EGT 257 Advanced Civil CAD 3

Total: 63

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Computer Aided Design I

Certificate in Applied Science
9 Credit Hours

This program introduces you to the computer and how it can be used to generate two- and three- dimensional engineering drawings.

Major Requirements

EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3
EGT 252 Advanced CAD 3

Total: 9

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Computer Aided Design II

Certificate in Applied Science
12 Credit Hours

This program is designed for students desiring advanced computer aided design skills to generate engineering drawings. Topics include three- dimensional CAD, feature-based modeling and CAD/CAM applications

Major Requirements

EGT 245 Principles of Parametric CAD 3
EGT 251 Principles of CAD 3
EGT 258 Applications of CAD 3
EGT 265 CAD/CAM Applications 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test. Completion of the Computer Aided Design I certificate is required for admission into this program.

2024-2025 TTC Catalog

Computer Engineering Transfer - The Citadel

This certificate allows the student to select course work to transfer into The Citadel's BS in Computer Engineering curriculum. An articulation agreement between The Citadel and TTC allows students to enroll at TTC with the following courses approved for transfer to The Citadel.

Required Courses

Please work with an advisor for actual course offerings, scheduling, and prerequisites.

ECE 205 Electrical and Computer Lab I 3
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 269 Engineering Disciplines and Skills 2
EGR 274 Engineering Applications of Numerical Methods 3
EGR 275 Introduction to Engineering/Computer Graphics 3
EGR 281 Introduction to Algorithmic Design I 4
EGR 283 Introduction to Algorithmic Design II 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

Total: 37

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Students must have completed the prerequisite for each course listed.

2024-2025 TTC Catalog

Construction Engineering - Transfer to The Citadel

Certificate in Applied Science
37 Credit Hours

This certificate allows you to select course work to transfer into The Citadel's Bachelor of Science in construction engineering curriculum. Please see an advisor for actual course offering times, scheduling and prerequisites.

BIO 101 Biological Science I 4
EGR 260 Engineering Statics 3
EGR 275 Introduction to Engineering/Computer Graphics 3
EGR 282 Introduction to Civil Engineering 2
EGR 285 Engineering Surveying I 3
EGR 286 Engineering Surveying II 3
EGR 295 Engineering Surveying Lab I 1
EGR 296 Engineering Surveying Lab II 1
MAT 141 Analytic Geometry and Calculus II 4
PHY 221 University Physics I 4
MAT 120 Probability and Statistics 3
ECO 211 Microeconomics 3
ACC 101 Accounting Principles I 3

Total: 37

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Students must have completed the prerequisite for each course listed.

2024-2025 TTC Catalog

Construction Management

Certificate in Applied Science
13 Credit Hours

This certificate prepares you to work in construction management. It includes reading and understanding construction blueprints, construction materials and methods, materials estimating, scheduling and construction management.

Major Requirements

CET 120 Construction Materials 3
CET 127 Building Construction and Print Reading 4
CET 230 Construction Management 3
CET 245 Cost Estimating 3

Total: 13

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Edible Crops

Certificate in Applied Science
29 Credit Hours

This certificate addresses current needs for edible crop production. Students would be trained to grow crops in the field and greenhouse, identify and treat pests, and develop successful edible crop business.

Major Requirements

CWE 113 Cooperative Work Experience 3
HRT 121 Commercial Irrigation 3
HRT 125 Soils 4
HRT 130 Greenhouse Production 3
HRT 139 Plant Propagation 3
HRT 144 Plant Pests 3
HRT 171 Landscape Business Techniques 3
HRT 240 Pesticides 4
HRT 269 Edible Landscaping 3

Total: 29

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Electrical Drafting

Certificate in Applied Science
15 Credit Hours

This certificate is designed for students with little or no drafting experience who want to work with electrical drawings. The certificate also includes a study of basic electrical circuits.

Major Requirements

EET 113 Electrical Circuits I 4
EGR 104 Engineering Technology Foundations 3
EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3
EGT 172 Electronic Drafting 2

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Electrical Engineering Transfer -The Citadel

Certificate in Applied Science
33 Credit Hours

This certificate allows you to select course work to transfer into The Citadel's Bachelor of Science in electrical engineering curriculum. Please see an advisor for actual course offering times, scheduling and prerequisites. For entry into the program, you must be a high school graduate or possess a GED and have taken the prerequisite for each course listed.

Major Requirements

ECE 205 Electrical and Computer Lab I 3
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 269 Engineering Disciplines and Skills 2
EGR 274 Engineering Applications of Numerical Methods 3
EGR 275 Introduction to Engineering/Computer Graphics 3
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

Total: 33

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Electrical Line Worker - Advanced

Certificate in Applied Science
18 Credit Hours

The advanced certificate is taught under the direction of experienced electric utility instructors.

Students must be employees of the utility during the semester they are taking the certificate courses. The course work continues the development of skills introduced in the Third Class certificate.

Major Requirements

ELW 113 National Electrical Safety Code 3
ELW 115 Overhead Line Construction II 3
ELW 116 Overhead Line Construction III 3
ELW 117 Overhead Line Construction IV 3
ELW 212 Underground Line Construction II 3
ELW 221 Advanced Line Construction 3

Total: 18 Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test and completion of the Third Class certificate or its equivalent. High school graduation or GED is required and you must be at least 18 years old. Admission is restricted to employees of electric utilities. For more information, contact the Division of Industrial and Engineering Technology at 843.574.6156.

2024-2025 TTC Catalog

Electrical Line Worker - Third Class

Certificate in Applied Science
17 Credit Hours

The purpose of the Electrical Line Worker Program is to prepare the student to enter the electric utility industry as an apprentice with a broad understanding of the skills, knowledge, safe work practices and physical ability required to perform line work. During the Electrical Line Worker: Third Class program, offered in its entirety both Fall and Spring semesters, students will receive classroom and field training in math, electrical circuit analysis, power systems including Ohm's Law, AC and DC theory and analysis, generation, transmission and distribution of electrical energy and transformer theory. Climbing techniques are strongly emphasized. Safety and teamwork are demonstrated and emphasized in all phases of training.

Major Requirements

ELW 110 Electrical Computations 2
ELW 111 Introduction to Electrical Line Worker 3
ELW 112 Introduction to Electricity 3
ELW 114 Overhead Line Construction I 3
ELW 211 Underground Line Construction I 3
ELW 231 Electrical Power Systems 3

Total: 17 Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation or GED is required and you must be at least 18 years old. Students must hold a valid driver's license. Students must also be comfortable working at considerable heights and physically fit. Industries will require prospective employees to pass a background check as well as a drug and alcohol screening.

2024-2025 TTC Catalog

Electrician - Construction

Certificate in Applied Science
18 Credit Hours

The Electrician: Construction certificate program prepares you for employment in the electrical construction trade. Emphasis is placed on electrical theory, wiring techniques, electrical equipment installations and license preparation in accordance with the latest edition of the National Electrical Code.

Major Requirements

EEM 105 Basic Electricity 2
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 163 Residential Wiring I 2
EEM 164 Residential Wiring II 2
EEM 167 Commercial-Industrial Wiring I 2
EEM 168 Commercial-Industrial Wiring II 2
EEM 173 Electrical Installation I 2
EEM 174 Electrical Installation II 2

Total: 18

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Electrician - Industrial

Certificate in Applied Science
27 Credit Hours

The Electrician: Industrial certificate program prepares you for employment as an industrial maintenance electrician. Emphasis is placed on electrical/electronic theory and industrial electrical equipment such as motors, transformers, motor control systems, drive systems and programmable controllers. Special emphasis is placed on developing troubleshooting skills.

Major Requirements

EEM 113 DC Circuits I 2
EEM 114 DC Circuits II 2
EEM 119 AC Circuits I 2
EEM 120 AC Circuits II 2
EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 151 Motor Controls I 4
EEM 167 Commercial-Industrial Wiring I 2
EEM 168 Commercial-Industrial Wiring II 2
EEM 218 AC DC Machines with Electrical Codes I 2
EEM 219 AC DC Machines with Electrical Codes II 2
EEM 221 DC AC Drives 3

Total: 27

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Electronics Engineering Technology

Associate in Applied Science in Electronics Engineering Technology

62 Credit Hours

The Electronics Engineering Technology program prepares students for a broad range of jobs in the electrical and electronic fields. Graduates of the program may become employed as broadcast technicians, business machine technicians, customer service representatives, computer service technicians, engineering technicians, laboratory technicians, field engineering technicians, engineering aides, electrical sales technicians, technical writers and electrical instrument technicians.

General Education Core Requirements

ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

EEM 218 AC DC Machines with Electrical Codes I 2
EEM 219 AC DC Machines with Electrical Codes II 2
EEM 251 Programmable Controllers 3
EEM 252 Programmable Controllers Applications 3
EET 113 Electrical Circuits I 4
EET 210 Digital Integrated Circuits 4
EET 274 Selected Topics in Electrical-Electronics Technology 3
EGR 104 Engineering Technology Foundations 3
EGR 110 Introduction to Computer Environment 3
EGR 234 Control Principles 3
EGR 290 Numerical Applications in Engineering Technology 3
EGT 151 Introduction to CAD 3
MET 233 Applied Thermal Principles 4
MET 237 Fluids: Principles and Application 4

Total: 44

Electives

Select one course from the following.

AMT 105 Robotics and Automated Control I 3
CWE 113 Cooperative Work Experience 3
EGT 152 Fundamentals of CAD 3

Total: 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Engineering Assistant - Engineer Pathway

Certificate in Applied Science
35 Credit Hours

This certificate offers course work designed to prepare the student for engineering transfer. Upon completion of the certificate the student can select a pathway in either civil, electrical, or mechanical engineering transfer to a four-year college or university.

CHM 110 College Chemistry I 4
EGR 202 Introduction to Engineering Programming 3
EGR 269 Engineering Disciplines and Skills 2
EGR 275 Introduction to Engineering/Computer Graphics 3
EGT 265 CAD/CAM Applications 3
ENG 101 English Composition I 3
ENG 102 English Composition II 3
MAT 110 College Algebra 3
MAT 111 College Trigonometry 3
MAT 140 Analytic Geometry and Calculus I 4
PHY 221 University Physics I 4

Total: 35 Admission into this program is open only to Youth Apprentices that meet the requirements set forth by the Apprenticeship office. Additional requirements are qualifying scores on SAT, ACT or TTC’s placement test.

2024-2025 TTC Catalog

Engineering Assistant - Technician Pathway

Certificate in Applied Science
31 Credit Hours

This certificate provides foundational course work in the engineering technology curriculum. Upon completion of the certificate students can select a pathway in civil, electronics, or mechanical engineering technology.

Major Requirements

EET 113 Electrical Circuits I 4
EGR 104 Engineering Technology Foundations 3
EGR 110 Introduction to Computer Environment 3
EGR 290 Numerical Applications in Engineering Technology 3
EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3
EGT 265 CAD/CAM Applications 3
ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 209 Interpersonal Communication 3

Total: 31 Admission into this program is open only to Youth Apprentices that meet the requirements set forth by the Apprenticeship office. Additional requirements are qualifying scores on SAT, ACT or TTC’s placement test.

2024-2025 TTC Catalog

Engineering Transfer - Computer

Computer Engineering Transfer Program - The Citadel

This is a transfer opportunity for students who desire to transfer to The Citadel in computer engineering. An articulation agreement between The Citadel and TTC allows students to enroll at TTC with the following courses approved for transfer to The Citadel. The purpose of this agreement is to provide courses at TTC equivalent to the lower division requirements of The Citadel's Department of Engineering to promote access to and facilitate the transfer of TTC's students into The Citadel's BS in Computer Engineering program.

Required Courses

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

CHM 110 College Chemistry I 4
CHM 111 College Chemistry II 4
or
BIO 101 Biological Science I 4
BIO 102 Biological Science II 4
ECE 205 Electrical and Computer Lab I 3
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 269 Engineering Disciplines and Skills 2
EGR 275 Introduction to Engineering/Computer Graphics 3
EGR 281 Introduction to Algorithmic Design I 4
EGR 283 Introduction to Algorithmic Design II 4
ENG 101 English Composition I 3
ENG 102 English Composition II 3
ENG 260 Advanced Technical Communications 3
HIS 201 American History: Discovery to 1877 3 *
MAT 140 Analytic Geometry and Calculus I 4
MAT 141 Analytic Geometry and Calculus II 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

*Students may choose to take HIS 101, HIS 102, HIS 104, HIS 105, and HIS 202 in lieu of HIS 201. HIS 201 is recommended if student does not take PSC 201 to satisfy the social science requirement (see advisor for details).

**All courses on this list are acceptable for the social science requirement at The Citadel with the exception of GEO 102. PSC 201 is recommended if student does not take HIS 201 for the history requirement (see advisor for details).

Total: 68

Students who complete each 2+2 program course at TTC with a grade of C or higher and who maintain a cumulative GPA of at least 2.0 are eligible to apply for admission to The Citadel Graduate College Computer Engineering program. This application must be accompanied by a letter of transmittal from TTC's 2+2 advisor. Formal application must be made through The Citadel Graduate College. Upon completion of the above program, the student will have earned an associate in science degree as well as the appropriate engineering transfer certificate.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

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Engineering Transfer - Civil

Civil Engineering Transfer Program - The Citadel

This is a transfer opportunity for students wanting to transfer into The Citadel 's BS in Civil Engineering. An articulation agreement between The Citadel and TTC allows students to enroll at TTC with the following courses approved for transfer to The Citadel.

Required Courses

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

BIO 101 Biological Science I 4
CHM 110 College Chemistry I 4
CHM 111 College Chemistry II 4
EGR 202 Introduction to Engineering Programming 3
EGR 260 Engineering Statics 3
EGR 262 Engineering Dynamics 3
EGR 269 Engineering Disciplines and Skills 2
EGR 275 Introduction to Engineering/Computer Graphics 3
EGR 285 Engineering Surveying I 3
EGR 286 Engineering Surveying II 3
EGR 295 Engineering Surveying Lab I 1
EGR 296 Engineering Surveying Lab II 1
ENG 101 English Composition I 3
ENG 102 English Composition II 3
ENG 260 Advanced Technical Communications 3
HIS 101 Western Civilization to 1689 3 *
MAT 140 Analytic Geometry and Calculus I 4
MAT 141 Analytic Geometry and Calculus II 4
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4

*Students may choose to take HIS 102, HIS 104, HIS 105, HIS 201, and HIS 202 in lieu of HIS 101.
**All courses on this list are acceptable for the Social Science requirement at The Citadel with the exception of GEO 102.

Total: 72

Students who complete each 2+2 program course at TTC with a grade of C or higher and who maintain a cumulative GPA of at least 2.0 are eligible to apply for admission

to The Citadel Graduate College Civil Engineering program. This application must be accompanied by a letter of transmittal from TTC's 2+2 advisor. Formal application must be made through The Citadel Graduate College.

Upon completion of the above program, the student will have earned an Associate in Science degree as well as the appropriate engineering transfer certificate

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

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Engineering Transfer - Construction

Engineering Transfer - Construction

This is a transfer opportunity for students wanting to transfer into The Citadel's BS in Construction Engineering. An articulation agreement between The Citadel and TTC allows students to enroll at TTC with the following courses approved for transfer to The Citadel.

REQ HUM	**Select from Humanities**	**3**
REQ SSC	**Select from Behavioral/Social Sciences**	**3**

ACC 101 Accounting Principles I 3
BIO 101 Biological Science I 4
CHM 110 College Chemistry I 4
CHM 111 College Chemistry II 4
EGR 202 Introduction to Engineering Programming 3
EGR 260 Engineering Statics 3
EGR 269 Engineering Disciplines and Skills 2
EGR 275 Introduction to Engineering/Computer Graphics 3
EGR 285 Engineering Surveying I 3
EGR 286 Engineering Surveying II 3
EGR 295 Engineering Surveying Lab I 1
EGR 296 Engineering Surveying Lab II 1
ENG 101 English Composition I 3
ENG 102 English Composition II 3
ENG 260 Advanced Technical Communications 3
HIS 101 Western Civilization to 1689 3 *
MAT 110 College Algebra 3
MAT 111 College Trigonometry 3
MAT 140 Analytic Geometry and Calculus I 4
MAT 141 Analytic Geometry and Calculus II 4
PHY 221 University Physics I 4

*Students may choose to take HIS 102, HIS 104, HIS 105, HIS 201, and HIS 202 in lieu of HIS 101.
**All courses on this list are acceptable for the Social Science requirement at The Citadel with the exception of GEO 102.

Total: 70

Students who complete each 2+2 program course at TTC with a grade of C or higher and who maintain a cumulative GPA of at least 2.0 are eligible to apply for admission to

The Citadel Graduate College Construction Engineering program. This application must be accompanied by a letter of transmittal from TTC's 2+2 advisor. Formal application must be made through The Citadel Graduate College.

Upon completion of the above program, the student will have earned an associate in science degree as well as the appropriate engineering transfer certificate.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Engineering Transfer - Electrical

Engineering Transfer - Electrical

This is a transfer opportunity for students wanting to transfer into The Citadel in electrical engineering. An articulation agreement between The Citadel and TTC allows students to enroll at TTC with the following courses approved for transfer to The Citadel. The purpose of this agreement is to provide courses at TTC equivalent to the lower division requirements of The Citadel's Department of Engineering to promote access to and facilitate the transfer of TTC's students into The Citadel's BS in Electrical Engineering program.

REQ HUM	**Select from Humanities**	**3**
REQ SSC	**Select from Behavioral/Social Sciences**	**3**

CHM 110 College Chemistry I 4
CHM 111 College Chemistry II 4
or
BIO 101 Biological Science I 4
BIO 102 Biological Science II 4
ECE 205 Electrical and Computer Lab I 3
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 202 Introduction to Engineering Programming 3
EGR 269 Engineering Disciplines and Skills 2
EGR 274 Engineering Applications of Numerical Methods 3
EGR 275 Introduction to Engineering/Computer Graphics 3
ENG 101 English Composition I 3
ENG 102 English Composition II 3
ENG 260 Advanced Technical Communications 3
HIS 101 Western Civilization to 1689 3 *
MAT 140 Analytic Geometry and Calculus I 4
MAT 141 Analytic Geometry and Calculus II 4
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

*Students may choose to take HIS 102, HIS 104, HIS 105, HIS 201, and HIS 202 in lieu of HIS 101.
**All courses on this list are acceptable for the Social Science requirement at The Citadel with the exception of GEO 102.

Total: 70

Students who complete each 2+2 program course at TTC with a grade of C or higher and who maintain a cumulative GPA of at least 2.0 are eligible to apply for admission to The Citadel Graduate College Electrical Engineering program. This application must be accompanied by a letter of transmittal from TTC's 2+2 advisor. Formal application must be made through The Citadel Graduate College.

Upon completion of the above program, the student will have earned an associate in science degree as well as the appropriate engineering transfer certificate.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Engineering Transfer - Mechanical

Engineering Transfer - Mechanical

In Preparation for transfer to The Citadel

An articulation agreement between The Citadel and TTC allows students to enroll at TTC with the following courses approved for transfer to The Citadel. The purpose of this agreement is to provide courses at TTC equivalent to the lower division requirements of The Citadel's BS in Mechanical Engineering to promote access to and facilitate the transfer of TTC's students into The Citadel's engineering programs.

Required Courses

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

BIO 101 Biological Science I 4
CHM 110 College Chemistry I 4
ECE 205 Electrical and Computer Lab I 3
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 202 Introduction to Engineering Programming 3
EGR 274 Engineering Applications of Numerical Methods 3
EGR 260 Engineering Statics 3
EGR 262 Engineering Dynamics 3
EGR 269 Engineering Disciplines and Skills 2
ENG 101 English Composition I 3
ENG 102 English Composition II 3
ENG 260 Advanced Technical Communications 3
HIS 101 Western Civilization to 1689 3 *
MAT 140 Analytic Geometry and Calculus I 4
MAT 141 Analytic Geometry and Calculus II 4
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

*Students may choose to take HIS 102, HIS 104, HIS 105, HIS 201, and HIS 202 in lieu of HIS 101.
**All courses on this list are acceptable for the Social Science requirement at The Citadel with the exception of GEO 102.

Total: 73

Students who complete each 2+2 program course at TTC with a grade of C or higher and who maintain a cumulative GPA of at least 2.0 are eligible to apply for admission to The Citadel Graduate College Engineering, Mechanical Engineering program. This application must be accompanied by a letter of transmittal from TTC's 2+2 advisor. Formal application must be made through The Citadel Graduate College.

Upon completion of the above program, the student will have earned an associate in science degree as well as the appropriate engineering transfer certificate.

Admission into this program requires proof of high school graduation (or GED) and qualifying placement levels.

2024-2025 TTC Catalog

General Technology - Electrical Line Worker Technology

Associate in Applied Science in General Technology

Electrical Line Worker Career Path

65 Credit Hours

The General Technology major allows students to select course work necessary to become multiskilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This program is open to students who have completed and received the Electrical Line Worker Third Class certificate and must be employees of a utility during the semester they are taking the courses below. The degree path offers students the opportunity to expand their education base and prepare them to further their opportunities in the electric utility industry. Students develop advanced skills in electrical circuit analysis, power systems, line construction and safety. This path expands knowledge in the areas of first aid, CPR, advanced studies in electricity, supervisory skills, accounting and leadership training.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

First Year Experience Requirement

EGR 110 Introduction to Computer Environment 3
or

IDS 109 First Year Experience Seminar 3

Total: 3

Primary Technical Specialty

**Students must be employees of a utility company during the semester they are taking these courses.*

ELW 110 Electrical Computations 2
ELW 111 Introduction to Electrical Line Worker 3
ELW 112 Introduction to Electricity 3
ELW 113 National Electrical Safety Code 3
ELW 114 Overhead Line Construction I 3
ELW 115 Overhead Line Construction II 3 *
ELW 116 Overhead Line Construction III 3 *
ELW 117 Overhead Line Construction IV 3 *
ELW 211 Underground Line Construction I 3
ELW 212 Underground Line Construction II 3 *
ELW 221 Advanced Line Construction 3 *
ELW 231 Electrical Power Systems 3

Total: 35

Secondary Technical Specialty

For the Secondary Technical Specialty, students may also take 12 semester-hour credits from programs related to Industrial Electricity-Electronics or Industrial Mechanics. Twelve semester credit hours from other programs may be appropriate; students should contact their academic advisor for details.

MGT 101 Principles of Management 3
MGT 201 Human Resource Management 3
MGT 210 Employee Selection and Retention 3
MGT 255 Organizational Behavior 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

This program is open to students who have completed and received the Electrical Line Worker Third Class certificate.

2024-2025 TTC Catalog

General Technology - Electrician-Industrial and Construction

Associate in Applied Science in General Technology

Electrician: Industrial and Construction Career Path

61-62 Credit Hours

The General Technology major allows students to select course work necessary to become multiskilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path prepares students for employment in the electrical construction and maintenance electrician trades. Emphasis is placed on electrical/ electronic theory, electrical equipment (motors, transformers, motor control and drive systems, programmable controllers, etc.), wiring techniques in accordance with the National Electric Code, and troubleshooting.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

MAT 170 Algebra, Geometry and Trigonometry I 3

REQ GEN	Select from General Education	3
REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty Requirements

EEM 113 DC Circuits I 2
EEM 114 DC Circuits II 2
EEM 119 AC Circuits I 2
EEM 120 AC Circuits II 2
EEM 129 Solid State Devices I 2
EEM 130 Solid State Devices II 2

EEM 138 National Electrical Code I 2
EEM 139 National Electrical Code II 2
EEM 167 Commercial-Industrial Wiring I 2
EEM 168 Commercial-Industrial Wiring II 2
EEM 218 AC DC Machines with Electrical Codes I 2
EEM 219 AC DC Machines with Electrical Codes II 2
EEM 251 Programmable Controllers 3

Total: 27

Secondary Technical Specialty Requirements

EEM 105 Basic Electricity 2
EEM 163 Residential Wiring I 2
EEM 164 Residential Wiring II 2
EEM 173 Electrical Installation I 2
EEM 174 Electrical Installation II 2
EEM 221 DC AC Drives 3

Total: 13

Additional Requirements

EEM 107 Industrial Computer Techniques 2
or
EGR 110 Introduction to Computer Environment 3
EEM 151 Motor Controls I 4

Total: 6-7

Admission into this program requires proof of high school graduation (or GED) and qualifying placement levels.

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General Technology - Engineering Design Graphics

Associate in Applied Science in General Technology

Engineering Design Graphics Career Path

62-63 Credit Hours

This career path prepares students for employment in the broad field of drafting with opportunities in both government and industry. Training emphasizes the development of computer- aided design and drafting skills. Graduates typically obtain drafting and technical illustration jobs in the architectural, civil, construction, electrical, or mechanical field.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

IDS 109 First Year Experience Seminar 3
MAT 170 Algebra, Geometry and Trigonometry I 3

REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty Requirements

EGT 130 Geometric Dimensioning and Tolerancing Applications 3
EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3
EGT 220 Structural and Piping Application 4
EGT 245 Principles of Parametric CAD 3
EGT 251 Principles of CAD 3
EGT 252 Advanced CAD 3
EGT 258 Applications of CAD 3
EGT 261 Model Design and Simulation 4
EGT 265 CAD/CAM Applications 3

Total: 32

Secondary Technical Specialty Requirements

AET 111 Architectural Computer Graphics I 3
AET 221 Architectural Computer Graphics II 4

EGT 172 Electronic Drafting 2

*Choose one of the Drafting Options listed below to meet he Secondary Specialty Requirements (6/7 credits).

Total: 7

***Additional Requirements - Architectural Drafting Option**

AET 202 History of Architecture 3
CET 120 Construction Materials 3

Total: 6

***Additional Requirements - Civil Drafting Option**

CET 204 Fundamentals of Surveying 4
EGT 257 Advanced Civil CAD 3

Total: 7

***Additional Requirements - Electrical Drafting Option**

EGR 104 Engineering Technology Foundations 3
EET 113 Electrical Circuits I 4

Total: 7

***Additional Requirements - Mechanical Drafting Option**

EGR 170 Engineering Materials 3
or
EGR 175 Manufacturing Processes 3
EGT 115 Engineering Graphics II 4

Total: 7

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

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General Technology - Mechatronics

Associate in Applied Science in General Technology

Mechatronics Career Path

63 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

Graduates of this career path are employed as automated controls technicians, electrical and instrumentation technicians, or robotics and automation technicians at manufacturing plants, chemical plants, food and beverage plants, water systems, and energy generation facilities. Job duties include installing, maintaining and repairing various types of electro-mechanical automation equipment.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

MAT 170 Algebra, Geometry and Trigonometry I 3

REQ GEN	Select from General Education	3
REQ COM	Select from Communication	3
REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty

AMT 105 Robotics and Automated Control I 3
AMT 205 Robotics and Automated Control II 3
EEM 221 DC AC Drives 3
EEM 251 Programmable Controllers 3
EEM 252 Programmable Controllers Applications 3
EET 113 Electrical Circuits I 4
EIT 110 Principles of Instrumentation 3
EIT 244 Computers and PLCs in Instrumentation 3

IMT 132 Hydraulics 2
IMT 133 Pneumatics 2
IMT 161 Mechanical Power Applications 4

Total: 33

Secondary Technical Specialty

EEM 107 Industrial Computer Techniques 2
EEM 151 Motor Controls I 4
EGR 104 Engineering Technology Foundations 3
IMT 115 Industrial Schematics 3
IMT 163 Problem Solving for Mechanical Applications 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

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Golf Course Maintenance

Certificate in Applied Science
23 Credit Hours

The Golf Course Maintenance certificate program provides short-term training for individuals employed in golf course maintenance and those wishing to enter the field. The program is structured so that novice students can develop basic skills, and those individuals currently employed at golf courses can upgrade their skills through formal course work combined with on-the-job training. This on-the-job training consists of supervised work experience in which students are placed at a golf course for hands-on practice with chemical and fertilizer application equipment as well as training in routine maintenance practices. Students must see the Horticulture faculty for more information.

Major Requirements

CWE 112 Cooperative Work Experience 2
HRT 110 Plant Form and Function 4
HRT 121 Commercial Irrigation 3
HRT 125 Soils 4
HRT 144 Plant Pests 3
HRT 240 Pesticides 4
HRT 241 Turf Management 3

Total: 23

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Horticulture Technology

Associate in Applied Science in Horticulture Technology

65-66 Credit Hours

The Horticulture Technology program prepares students for positions in landscape design and construction, turf supervision, horticultural sales, nursery plant production and landscape maintenance. Students in horticulture must see an advisor for specific scheduling needs. Classes are taught in the Horticulture Technology building, the greenhouse and horticulture gardens. Some courses will transfer to Clemson University's horticulture program. See your advisor for more information.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

HRT 106 Ornamentals 2
HRT 107 Woody Ornamentals 2
HRT 110 Plant Form and Function 4
HRT 121 Commercial Irrigation 3
HRT 125 Soils 4
HRT 139 Plant Propagation 3
HRT 144 Plant Pests 3
HRT 171 Landscape Business Techniques 3
HRT 212 Commercial Landscape Design 3 *
HRT 240 Pesticides 4

*May substitute SPC 205 or SPC 209 for HRT 212.

Total: 31

Electives

Select seven courses from Horticulture electives.

AGR 201 Introduction to Sustainable Agriculture 3
HRT 101 Introduction to Horticulture 3
HRT 102 Landscape Design 4
HRT 108 Annuals and Perennials 2
HRT 130 Greenhouse Production 3
HRT 132 Nursery Operations 3
HRT 150 Arboriculture I 3
HRT 153 Landscape Construction 3
HRT 169 Sustainability in Horticulture 3
HRT 241 Turf Management 3
HRT 254 Landscape Maintenance 2
HRT 269 Edible Landscaping 3

Total: 19-22

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Landscape Design

Certificate in Applied Science
16 Credit Hours

The Landscape Design certificate program provides training for individuals involved in landscape design and installation. The program is useful for those with practical experience in landscape installation, but with little or no formal training in plant arrangements and plant selection. Students must see the Horticulture faculty for advising.

Major Requirements

HRT 102 Landscape Design 4
HRT 106 Ornamentals 2
HRT 107 Woody Ornamentals 2
HRT 108 Annuals and Perennials 2
HRT 153 Landscape Construction 3
HRT 212 Commercial Landscape Design 3

Total: 16

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Landscape Management

Certificate in Applied Science
17 Credit Hours

The Landscape Management certificate is ideal if you want to take courses in a specific area of landscape maintenance and management. The objective of this certificate is to create confidence and professionalism in the landscaper and nursery worker by broadening his or her horticultural knowledge and increasing exposure to modern techniques and materials used in landscape management.

Major Requirement

HRT 101 Introduction to Horticulture 3
HRT 106 Ornamentals 2
HRT 107 Woody Ornamentals 2
HRT 108 Annuals and Perennials 2
HRT 241 Turf Management 3
HRT 254 Landscape Maintenance 2
HRT 171 Landscape Business Techniques 3

Total: 17

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

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Mechanical Drafting

Certificate in Applied Science

16 Credit Hours

This certificate is designed for students with little or no drafting experience who want to work with mechanical drawings. The certificate also includes a study of engineering materials or manufacturing processes.

Major Requirements

EGR 170 Engineering Materials 3
or
EGR 175 Manufacturing Processes 3
EGT 115 Engineering Graphics II 4
EGT 130 Geometric Dimensioning and Tolerancing Applications 3
EGT 151 Introduction to CAD 3
EGT 152 Fundamentals of CAD 3

Total: 16

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Mechanical Engineering Technology

Associate in Applied Science in Mechanical Engineering Technology

62 Credit Hours

The Mechanical Engineering Technology program prepares students for employment as engineering technicians with industry, consulting engineering firms, public utilities and governmental agencies. Graduates typically obtain jobs as heating, ventilation and air conditioning technicians, machine parts and marine drafters, engineering assistants, field engineer technicians, quality control technicians, mechanical design technicians, and product development technicians.

General Education Core Requirements

ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

EEM 251 Programmable Controllers 3
EET 113 Electrical Circuits I 4
EET 210 Digital Integrated Circuits 4
EGR 104 Engineering Technology Foundations 3
EGR 110 Introduction to Computer Environment 3
EGR 170 Engineering Materials 3
EGR 175 Manufacturing Processes 3
EGR 194 Statics and Strength of Materials 4
EGR 234 Control Principles 3
EGR 290 Numerical Applications in Engineering Technology 3
EGT 151 Introduction to CAD 3
MET 233 Applied Thermal Principles 4
MET 237 Fluids: Principles and Application 4

Total: 44

Electives

Select one course from the following.

ACR 210 Heat Pumps 4
AMT 105 Robotics and Automated Control I 3
EEM 252 Programmable Controllers Applications 3
EGT 152 Fundamentals of CAD 3

Total: 3-4

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

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Mechanical Engineering Transfer - The Citadel

Certificate in Applied Science
36 Credit Hours

This certificate allows you to select course work to transfer into The Citadel's Bachelor of Science in mechanical engineering curriculum. Please see an advisor for actual course offering times, scheduling and prerequisites.

Major Requirements

ECE 205 Electrical and Computer Lab I 3
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 260 Engineering Statics 3
EGR 262 Engineering Dynamics 3
EGR 269 Engineering Disciplines and Skills 2
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

Total: 33

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Students must also have completed the prerequisites for all required courses.

2024-2025 TTC Catalog

Surveying

Certificate in Applied Science
17 Credit Hours

This certificate prepares you for a career in the land surveying job market. It is designed for those individuals having little or no surveying experience and for those who presently hold a position with a surveying firm and desire to move into another position.

Major Requirements

CET 204 Fundamentals of Surveying 4
CET 205 Surveying II 4
EGT 151 Introduction to CAD 3 *
EGT 152 Fundamentals of CAD 3
MAT 170 Algebra, Geometry and Trigonometry I 3

Total: 17

*Allowable alternate: EGR 275

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Sustainable Agriculture

Certificate in Applied Science

25 Credit Hours

The Sustainable Agriculture certificate addresses large and small-scale food production from seed to sales with an emphasis on farms and food markets. The coursework covers sustainable agricultural practices, organic farming, and post-harvest handling. Graduates will have the skills to network businesses that comprise the local food system, including wholesalers, farmers market managers, equipment providers, farm-to-school operations, and urban agriculture.

Major Requirements

AGR 201 Introduction to Sustainable Agriculture 3
CUL 178 Farm to Plate 3
CWE 113 Cooperative Work Experience 3
HRT 125 Soils 4
HRT 130 Greenhouse Production 3
HRT 139 Plant Propagation 3
HRT 144 Plant Pests 3
HRT 269 Edible Landscaping 3

Total: 25

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

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Sustainable Horticulture and Landscaping

Certificate in Applied Science

17 Credit Hours

The Sustainable Horticulture and Landscaping certificate addresses current environmental issues. The coursework stresses the conservation of resources to maintain a sustainable urban and suburban landscape. Graduates will be well versed in new developments in landscape construction and current horticultural practices that minimize the impact on the environment and foster healthy habitats.

Major Requirements

HRT 106 Ornamentals 2
HRT 107 Woody Ornamentals 2
HRT 125 Soils 4
HRT 144 Plant Pests 3
HRT 153 Landscape Construction 3
HRT 169 Sustainability in Horticulture 3

Total: 17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog - Film, Media and Visual Arts

The Film, Media and Visual Arts programs are designed to prepare students for entry-level positions in broadcasting, radio production, film production, graphic design, computer graphics, digital media, photography, website design, illustration, multimedia, post production and animation. The various associate degree and certificate programs combine academic theory with hands-on training using state-of-the-art equipment.

Associate Degree

Commercial Graphics - Animation

Commercial Graphics - Digital Media

Commercial Graphics - Graphic Design

Commercial Graphics - Photography

Media Arts Production - Film Production

Media Arts Production - Post Production

Media Arts Production - TV and Media Production

Certificate

Art Foundations

Basic Digital Production

Cinematography

Computer Animation

Computer Graphics

Design Basics

Digital Media Software

Digital Photography

Film Production

Illustration

Multimedia Design

Online Media Production

Photography

Radio Production

Social Media Design

Storytelling for the Screen

Website Design

2024-2025 TTC Catalog

Art Foundations

Certificate in Applied Science

30 Credit Hours

This certificate is designed for students who are currently enrolled in either the Associate in Arts or Associate in Science program and who want to create an academic placement portfolio that demonstrates a variety of advanced skills to be competitive for admission to a four-year college art program.

Major Requirements

ART 105 Film as Art 3
or
ART 107 History of Early Western Art 3
ART 108 History of Western Art 3
or
ART 210 History of Graphic Design 3
ART 111 Basic Drawing I 3
ART 112 Basic Drawing II 3
ART 211 Introduction to Painting 3
ARV 114 Photography I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 205 Graphic Illustration 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Basic Digital Production

Certificate in Applied Science
15 Credit Hours

This certificate program provides training in basic lighting, video, audio and editing. It is designed for students who wish to acquire the fundamental skills of digital production. Graduates will be able to produce program material for the web and small non-broadcast productions.

Major Requirements

MAP 101 Audio Techniques I 3
MAP 110 Editing I 3
MAP 120 Image Production I 3
MAP 130 Lighting Fundamentals 3
MAP 140 Writing for Media Production 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Cinematography

Certificate in Applied Science

15 Credit Hours

This certificate focuses coursework on specific skills that are required for cinematographers in the industry. Graduates from this program will be able to demonstrate visual storytelling through the use of documentary, narrative, drone photography and image post-processing.

Major Requirements

ARV 275 Aerial Photography 3
FLM 138 Film Editing I 3
FLM 239 Color Grading 3
FLM 252 Cinematography 3
FLM 265 Documentary Filmmaking 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Commercial Graphics - Animation

Associate in Applied Science in Commercial Graphics

Animation Career Path

60 Credit Hours

The Animation program provides training in animation, modeling, character rigging, texture painting, camera tracking, compositing and other artistry skills necessary for working in the electronic arts industry. Students will build a knowledge base necessary for creating work for special effects productions within the defense, education, game, commercial and film industries.

Students can earn only one Commercial Graphics degree in a single career path.

General Education Core Requirements

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
or
ART 210 History of Graphic Design 3
ENG 101 English Composition I 3

REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ART 111 Basic Drawing I 3
or
ARV 124 Sequential Drawing I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 125 Drawing for Animators 3
ARV 136 Motion Graphics I 3
ARV 217 Computer Imagery 3
ARV 280 Visual Arts Exit Portfolio 3
MAP 110 Editing I 3
or
ARV 219 Multimedia Techniques 3
MAP 190 Introduction to Animation 3
MAP 191 3D Modeling 3

MAP 192 Character Animation 3
MAP 193 Animation Workflow 3
or
MAP 213 Motion Graphics II 3
MAP 194 Gaming Animation 3
MAP 195 Visual Effects 3
MAP 198 Animation Projects l 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Commercial Graphics - Digital Media

Associate in Applied Science in Commercial Graphics

Digital Media Career Path

60 Credit Hours

The Digital Media career path is the convergence of art, science, technology, and business. Digital Media students go beyond a single profession. Digital Media students learn the cutting-edge skills necessary in multi-media, animation, digital video, photography and image editing, for creating and managing social media sites, websites, and online communities. They also develop fluency and expertise in the theory, practices and strategies that are essential for success in today's rapidly changing, powerfully influential digital media landscape.

Students can earn only one Commercial Graphics degree in a single career path.

General Education Core Requirements

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
or
ART 107 History of Early Western Art 3
or
ART 108 History of Western Art 3
or
ART 210 History of Graphic Design 3
ENG 101 English Composition I 3

REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ARV 110 Computer Graphics I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
or
ARV 212 Digital Photography 3
ARV 136 Motion Graphics I 3
or
MAP 110 Editing I 3

ARV 211 Digital Media Design 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 227 Website Design I 3
ARV 228 Website Design II 3
or
ARV 275 Aerial Photography 3
ARV 229 Advanced Multimedia 3
or
ART 290 Photojournalism 3
ARV 230 Visual Arts Business Procedures 3
or
ENG 263 Writing for Social Media 3
ARV 232 Digital Photography II 3
or
MAP 120 Image Production I 3
ARV 242 Design Thinking 3
ARV 280 Visual Arts Exit Portfolio 3
CGC 106 Typography I 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Commercial Graphics - Graphic Design

Associate in Applied Science in Commercial Graphics

Graphic Design Career Path

60 Credit Hours

Graphic Design has surpassed its role as a commercial art practice to play an essential role in how the world communicates today. It has become an indispensable tool for communicating the wide array of experiences of place, product, service or personality in every imaginable context. Students enrolled in the Graphic Design career path are challenged to develop design solutions to all of the above by experimenting with various tools including advertising, logo design, type design, books and digital magazine production, packaging, photography, motion graphics, and apps to create compelling graphic identities and branded experiences across a wide range of perpetually evolving media.

Students can earn only one Commercial Graphics degree in a single career path.

General Education Core Requirements

ART 101 Art History and Appreciation 3
ART 210 History of Graphic Design 3
ENG 101 English Composition I 3

REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ART 111 Basic Drawing I 3
ARV 110 Computer Graphics I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 136 Motion Graphics I 3
or
ARV 230 Visual Arts Business Procedures 3
ARV 162 Graphic Reproduction I 3
ARV 210 Computer Graphics II 3
ARV 212 Digital Photography 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3

ARV 261 Advertising Design I 3
ARV 280 Visual Arts Exit Portfolio 3
CGC 106 Typography I 3
CGC 110 Electronic Publishing 3
CGC 210 Advanced Electronic Publishing 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Commercial Graphics - Photography

Associate in Applied Science in Commercial Graphics

Photography Career Path

60 Credit Hours

The Photography program prepares students for a wide range of careers in the field of professional photography. Employment opportunities include event, portrait, product and food photography as well as positions in studios, magazines, ad agencies or stock photo houses. Students in this career path will study various types of cameras, composition, lighting, darkroom processes and digital imaging. The program will emphasize both the artistry and technical requirements necessary to be successful in this highly creative and competitive field.

Students can earn only one Commercial Graphics degree in a single career path.

General Education Requirements

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
or
ART 107 History of Early Western Art 3
or
ART 108 History of Western Art 3
or
ART 210 History of Graphic Design 3
ENG 101 English Composition I 3

REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ART 106 History of Photography 3
ART 290 Photojournalism 3
or
ARV 229 Advanced Multimedia 3
ARV 114 Photography I 3
ARV 116 Food Photography I 3
or
ARV 275 Aerial Photography 3

ARV 121 Design 3
ARV 164 Digital Print Production 3
ARV 212 Digital Photography 3
ARV 213 Lighting 3
ARV 216 Lighting II 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 230 Visual Arts Business Procedures 3
ARV 232 Digital Photography II 3
ARV 233 Portrait Photography 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 45

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Computer Animation

Certificate in Applied Science
36 Credit Hours

This certificate is designed to provide training in basic design principles and theories, animation techniques, 2D and 3D computer animation, image manipulation and digital video editing.

Major Requirements

ART 111 Basic Drawing I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 125 Drawing for Animators 3
ARV 217 Computer Imagery 3
ARV 280 Visual Arts Exit Portfolio 3
MAP 110 Editing I 3
MAP 190 Introduction to Animation 3
MAP 191 3D Modeling 3
MAP 192 Character Animation 3
MAP 193 Animation Workflow 3
MAP 194 Gaming Animation 3

Total: 36

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Computer Graphics

Certificate in Applied Science
36 Credit Hours
This certificate provides an opportunity for those working or desiring to work in electronic publishing to acquire the skills necessary for employment in the publishing industry. Students are trained on a wide variety of software packages running on both PC and Macintosh platforms.

Major Requirements

ARV 110 Computer Graphics I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 162 Graphic Reproduction I 3
ARV 210 Computer Graphics II 3
or
ARV 212 Digital Photography 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 261 Advertising Design I 3
ARV 280 Visual Arts Exit Portfolio 3
CGC 106 Typography I 3
CGC 110 Electronic Publishing 3
CGC 210 Advanced Electronic Publishing 3

Total: 36

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Design Basics

Certificate in Applied Science
12 Credit Hours

Design is one of the most important tools of visual communication. To design is to create with intent, or to assign visual order to conceptual abstractions. The Design Basics certificate is intended to give students the basics for becoming successful visual communicators. Students will demonstrate a working knowledge of visual design and composition principles, through successful creation and implementation of design techniques and principles.

ART 111 Basic Drawing I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 205 Graphic Illustration 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Digital Media Software

Certificate in Applied Science
18 Credit Hours

This certificate provides training in basic vector and raster graphics, electronic publishing and presentation software. It is designed for students who wish to pursue a career in the graphic arts and marketing industries or professionals working in the field who are required to update their current skills.

Major Requirements

ARV 110 Computer Graphics I 3
ARV 136 Motion Graphics I 3
ARV 211 Digital Media Design 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 227 Website Design I 3

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Digital Photography

Certificate in Applied Science
33 Credit Hours

This certificate is designed for students who want to pursue a career in digital photography. The purpose of the program is to provide training in digital image capture and production.

Major Requirements

ART 290 Photojournalism 3
ARV 121 Design 3
ARV 116 Food Photography I 3
or
ARV 275 Aerial Photography 3
ARV 164 Digital Print Production 3
ARV 212 Digital Photography 3
ARV 213 Lighting 3
ARV 216 Lighting II 3
ARV 217 Computer Imagery 3
ARV 230 Visual Arts Business Procedures 3
ARV 232 Digital Photography II 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 33

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Film Production

Certificate in Applied Science
30 Credit Hours

This certificate program provides instruction in a broad spectrum of film production skills including lighting, cinematography, sound and equipment maintenance and handling. These courses will be combined with practical experience to enhance the learning process.

Major Requirements

FLM 152 Film Equipment 3
FLM 153 Film Lighting 3
FLM 155 Film Production I 3
FLM 156 Film Production II 3
FLM 269 Film Production Practicum 6
MAP 101 Audio Techniques I 3
MAP 110 Editing I 3
MAP 120 Image Production I 3
MAP 130 Lighting Fundamentals 3

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Illustration

Certificate in Applied Science
24 Credit Hours

This certificate is for students who would like to work in the field of graphic illustration. It allows the students to learn both traditional and digital illustration techniques that can be used to create imagery for business, advertising, entertainment and educational applications.

Major Requirements

ART 111 Basic Drawing I 3
ART 112 Basic Drawing II 3
or
ARV 218 Computer Imagery II 3
ART 211 Introduction to Painting 3
or
ARV 205 Graphic Illustration 3
ARV 110 Computer Graphics I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 217 Computer Imagery 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 24

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Media Arts Production - Film Production

Associate in Applied Science in Media Arts Production

Film Production Career Path

60 Credit Hours

The Film Production career path provides students with a general education experience as well as operational training in the use of industry-standard cameras, lighting equipment, sound equipment and editing software. The program trains students in various filmmaking and production techniques so that they possess the skills needed to compete in this growing field.

Students can earn only one Media Arts Production degree in a single career path.

General Education Core Requirements

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
ENG 101 English Composition I 3

REQ SSC	Select from Behavioral/Social Sciences	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

FLM 152 Film Equipment 3
FLM 153 Film Lighting 3
FLM 155 Film Production I 3
FLM 156 Film Production II 3
FLM 157 Set Construction-Props-Art 3
FLM 269 Film Production Practicum 6
MAP 101 Audio Techniques I 3
MAP 110 Editing I 3
MAP 120 Image Production I 3
MAP 126 Media Arts Photography 3
MAP 130 Lighting Fundamentals 3
MAP 140 Writing for Media Production 3
or
MAP 243 Scriptwriting 3

Total: 39

Electives

Select two courses from any FLM or MAP course not used to meet other requirements for the degree.

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Media Arts Production - Post Production

Associate in Applied Science in Media Arts Production

Post Production Career Path

60 Credit Hours

The Post Production career path provides students with a general education experience as well as training in editing software, motion graphics, special effects, sound and animation. Students can pursue careers in film and television post- production, including editing, sound design, motion graphic design and color grading.

Students can earn only one Media Arts Production degree in a single career path.

General Education Core Requirements

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
ENG 101 English Composition I 3

REQ SSC	Select from Behavioral/Social Sciences	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

FLM 138 Film Editing I 3
FLM 238 Film Editing II 3
FLM 239 Color Grading 3
MAP 101 Audio Techniques I 3
MAP 110 Editing I 3
MAP 112 Media Graphics I 3
MAP 120 Image Production I 3
MAP 130 Lighting Fundamentals 3
MAP 140 Writing for Media Production 3
or
MAP 243 Scriptwriting 3
MAP 190 Introduction to Animation 3
MAP 207 Sound for Picture 3
MAP 210 Editing II 3
MAP 212 Motion Graphics I 3
MAP 265 Media Arts Business Procedures 3
or

MAP 280 Media Arts Exit Portfolio 3

Total: 42

Electives

Select one course from any FLM or MAP courses not used to meet requirements for the degree.

Total: 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Media Arts Production - TV and Media Production

Associate in Applied Science in Media Arts Production

TV and Media Production Career Path

60 Credit Hours

This program provides educational opportunities for students who will pursue careers in radio and television, online media production, and corporate video production, as audio technicians, board operators, videographers, video editors, studio production assistants, and freelance media producers. The program provides instruction in audio production, studio camera operation, field camera operation, studio and field lighting, moving image editing, and writing for media.

Students can earn only one Media Arts Production degree in a single career path.

General Education Core Requirements

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
ENG 101 English Composition I 3

REQ SSC	Select from Behavioral/Social Sciences	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

MAP 101 Audio Techniques I 3
MAP 104 Radio Production I 3
or
MAP 207 Sound for Picture 3
MAP 110 Editing I 3
MAP 112 Media Graphics I 3
MAP 120 Image Production I 3
MAP 122 Field Production I 3
MAP 130 Lighting Fundamentals 3
MAP 140 Writing for Media Production 3
MAP 150 Studio Production I 3
MAP 210 Editing II 3
MAP 222 Field Production II 3
MAP 250 Studio Production II 3

MAP 271 SCWE in Media Arts Production I 3
MAP 272 SCWE in Media Arts Production II 3

Total: 42

Electives

Select one course from any FLM or MAP course not used to meet other requirements of the degree.

Total: 3

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Multimedia Design

Certificate in Applied Science
33 Credit Hours

This certificate provides training for teachers, media technicians and those desiring work in the field of interactive media. Courses cover the design, development and production of educational and business interactive multimedia applications.

Major Requirements

ARV 110 Computer Graphics I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 136 Motion Graphics I 3
ARV 211 Digital Media Design 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 227 Website Design I 3
ARV 229 Advanced Multimedia 3
ARV 242 Design Thinking 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 33

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Online Media Production

Certificate in Applied Science
36 Credit Hours

This certificate is designed for students who wish to pursue a career in conceiving, writing and producing video and audio program material primarily for web-based applications.

Major Requirements

ARV 212 Digital Photography 3
ARV 227 Website Design I 3
MAP 101 Audio Techniques I 3
MAP 110 Editing I 3
MAP 112 Media Graphics I 3
MAP 120 Image Production I 3
MAP 122 Field Production I 3
MAP 130 Lighting Fundamentals 3
MAP 140 Writing for Media Production 3
MAP 210 Editing II 3
MAP 222 Field Production II 3
MAP 265 Media Arts Business Procedures 3
or
ARV 230 Visual Arts Business Procedures 3

Total: 36

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Photography

Certificate in Applied Science
33 Credit Hours

This certificate is designed to provide students with basic skills in traditional camera and darkroom techniques as well as lighting and image manipulation. The purpose of the program is to provide educational opportunities for students wishing to obtain entry-level positions at portrait studios, media production facilities or photo finishing establishments.

Major Requirements

ART 106 History of Photography 3
ARV 114 Photography I 3
ARV 121 Design 3
ARV 164 Digital Print Production 3
ARV 212 Digital Photography 3
ARV 213 Lighting 3
ARV 216 Lighting II 3
ARV 217 Computer Imagery 3
ARV 230 Visual Arts Business Procedures 3
ARV 233 Portrait Photography 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 33

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Radio Production

Certificate in Applied Science
21 Credit Hours

This certificate is designed for students who wish to pursue a career in radio production primarily as board operators and production assistants but also in some cases as on-the-air talent.

Major Requirements

MAP 101 Audio Techniques I 3
MAP 104 Radio Production I 3
MAP 140 Writing for Media Production 3
MAP 204 Radio Production II 3
MAP 205 Radio Production III 3
MAP 271 SCWE in Media Arts Production I 3
MAP 280 Media Arts Exit Portfolio 3

Total: 21

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Social Media Design

Certificate in Applied Science
15 Credit Hours

This certificate prepares students for careers in social media communication. Students learn how to identify, engage, and communicate with target markets and online communities, and to design graphics and create photos and videos to promote business. Using digital technologies, including social media, content creation, digital advertising and mobile marketing techniques, students will provide services to business owners and professionals.

Major Requirements

ARV 211 Digital Media Design 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 229 Advanced Multimedia 3
ARV 242 Design Thinking 3

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Storytelling for the Screen

Certificate in Applied Science

15 Credit Hours

This certificate provides students who have previous film production experience with advanced training in storytelling for the screen. Graduates from this program will be able to identify narrative content from multiple perspectives, culminating in the creation of a short narrative.

Major Requirements

FLM 138 Film Editing I 3
FLM 272 Directing for the Camera 3
FLM 275 The Camera and the Actor 3
MAP 243 Scriptwriting 3

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Website Design

Certificate in Applied Science
33 Credit Hours

This certificate provides training for teachers, media technicians and those desiring work in the field of Internet design. Courses cover the design, development, and production of interactive websites for distribution on the Internet.

Major Requirements

ARV 110 Computer Graphics I 3
ARV 121 Design 3
ARV 123 Composition and Color 3
ARV 136 Motion Graphics I 3
ARV 211 Digital Media Design 3
ARV 217 Computer Imagery 3
ARV 219 Multimedia Techniques 3
ARV 227 Website Design I 3
ARV 228 Website Design II 3
ARV 242 Design Thinking 3
ARV 280 Visual Arts Exit Portfolio 3

Total: 33

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog - Health Sciences

To meet the ever-expanding demand for qualified health sciences professionals, TTC's Division of Health Sciences offers a wide array of associate degree, diploma and certificate programs.

These programs combine classroom instruction, laboratory experience and clinical practice to assure that students obtain the most current and the highest- level skills in their chosen health professions.

Students interested in Health Sciences programs may obtain admission requirements information, course sequences, class schedules, program costs and job opportunities by consulting a faculty advisor or by accessing the Health Sciences webpage at www.tridenttech.edu/academics/divisions/hlthsc/index.htm. Contact your assigned academic advisor for an appointment. Academic advisors are assigned as part of the college orientation process conducted in the Student Success Centers on each campus through a walk-in service.

General Information

Professional courses for Health Sciences programs are offered in sequence and require up to two years for completion.

Applicants who meet college and program requirements will be considered qualified and will be admitted on a first-qualified, first-admitted basis. Qualified applicants will be notified via my.tridenttech.edu email indicating the year and semester that they have been admitted. Note: when the number of applicants qualifying at the same time exceeds the number of spaces available in the program, admission will be prioritized according to the date and time the Health Sciences application was received by the Health Sciences Admissions Coordinator.

Students may be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and/or titers, TB (PPD or Quantiferon TB Gold) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend may result in forfeiture of seat in the program.

Health Sciences students are required to follow stringent safety procedures, including, but not limited to, OSHA's Standard Precautions for handling potentially infectious materials.

Students are required to purchase uniforms in most programs and laboratory supplies and materials in some programs.

Students will be assigned to off-campus clinics and must have reliable transportation.

Course Progression

For all Health Sciences programs, students must earn a C or better in all required courses to progress through the program.

Criminal Background Check / Drug Screening
Students enrolled in most Health Sciences programs will be required to complete a criminal background check and will be subjected to a random drug screening. Results of the criminal background check and/or drug screening may affect the student's ability to complete program requirements and/or become credentialed. (Conviction of a felony could make a student ineligible to take the licensing exam(s) required by the profession upon graduation. Early notification to the appropriate board may be required. Faculty advisors will provide information about this procedure). Only criminal background checks and drug screenings conducted through the college-approved agency will be accepted. Information about the criminal background check and drug screening procedure will be discussed at program information and orientation sessions.

Readmission to a Program
A student who receives a U, W, D or F in any required curriculum course, or who receives an unacceptable/unsatisfactory professional development evaluation in a Health Sciences course cannot progress in the Health Sciences program. Students who are unable to progress in the program will also have their program of study (major) closed through the Registrar's office. This could result in a change in the students' financial aid status as well as the ability to register for further classes. A student may request to be considered for readmission by submitting a Readmission Application to the program coordinator; however, readmission is not automatic.

Associate Degrees

- Dental Hygiene
- General Technology - Expanded Duty Dental Assisting
- General Technology - Medical Assisting
- Health Information Management
- Medical Laboratory Technology
- Occupational Therapy Assistant
- Physical Therapist Assistant
- Radiologic Technology
- Respiratory Care
- Surgical Technology
- Veterinary Technology

Diplomas

- Expanded Duty Dental Assisting
- Medical Assisting

Certificates

- Health Sciences Preparation

2024-2025 TTC Catalog

Dental Hygiene

Associate in Applied Science in Dental Hygiene

81 Credit Hours

The dental hygienist is a licensed primary health care professional, oral health educator and clinician who, as co-therapist with the dentist, provides preventive, educational and therapeutic services supporting total health for the control of oral diseases and the promotion of oral health. Dental hygiene positions are available in general and specialty dental practices, community health centers and hospitals, as well as federal programs, the armed services and dental product promotion.

The curriculum, which includes both general education and professional dental hygiene courses, is accredited by the Commission on Dental Accreditation of the American Dental Association. Graduates are eligible to sit for the Dental Hygiene National Board Exam and individual state board examinations for licensure.

Accreditation

Commission on Dental Accreditation of the American Dental Association
211 East Chicago Ave.
Chicago, IL 60611-2678

General Education Core Curriculum

ENG 101 English Composition I 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

AHS 113 Head and Neck Anatomy 1
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
CHM 105 General Organic and Biochemistry 4
DHG 115 Medical and Dental Emergencies 2
DHG 121 Dental Radiography 3

DHG 125 Tooth Morphology and Histology 2
DHG 140 General and Oral Pathology 2
DHG 141 Periodontology 2
DHG 143 Dental Pharmacology 2
DHG 154 Pre-Clinical Dental Hygiene 4
DHG 165 Clinical Dental Hygiene I 5
DHG 175 Clinical Dental Hygiene II 5
DHG 230 Public Health Dentistry 3
DHG 231 Dental Health Education 1
DHG 239 Dental Assisting for the DHG 2
DHG 241 Integrated Dental Hygiene I 1
DHG 243 Nutrition and Dental Health 2
DHG 255 Clinical Dental Hygiene III 5
DHG 265 Clinical Dental Hygiene IV 5
SOC 101 Introduction to Sociology 3

Total: 66

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes for the full-time format begin each Fall Semester.

In addition to meeting the college's general education admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE DHG PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete BIO 210 Anatomy and Physiology I, BIO 211 Anatomy and Physiology II, BIO 225 Microbiology, and CHM 105 General Organic and Biochemistry.
   a. These courses must be completed with a minimum grade of C.
   b. These courses must have been taken within 5 years of acceptance into the program.
   c. The applicant must achieve a minimum cumulative 2.5 GPA in the four required science courses listed.
3. After submitting the Health Sciences Application, the student will receive details in their Trident Tech. email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
4. Submit an Observation form to HealthSciencesAdmissions@tridenttech.edu documenting a minimum of 15 hours of observation of a licensed dental hygienist working in a dental practice. The applicant is responsible for the observation experience. Forms may be found on the TTC Health Sciences webpage.
5. Submit a Statement of Completion form online. The link can be found on the Health Sciences webpage.

General Admission Procedures for the Dental Hygiene Program

1. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the Dental Hygiene program.
2. Students will be required to provide a complete, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Dental Hygiene program.

Course Progression

To progress to the next Dental Hygiene term/semester, the student must complete all courses required in the Dental Hygiene program with a grade of C or better. Student must earn a C or better in professional development for each course.

2024-2025 TTC Catalog

Expanded Duty Dental Assisting

Diploma in Applied Science in Expanded Duty Dental Assisting

43 Credit Hours

The Expanded Duty Dental Assisting program prepares students for dental assisting procedures under the direct supervision of a licensed dentist. The program is accredited by the Commission on Dental Accreditation of the American Dental Association. Graduates are eligible for certification in monitoring nitrous oxide sedation by the South Carolina State Board of Dentistry. Upon satisfactory completion of the Dental Assisting National Board examinations, graduates are designated certified dental assistants.

Accreditation

Commission on Dental Accreditation of the American Dental Association
211 East Chicago Ave.
Chicago, IL 60611-2678

General Education Core Requirements

ENG 101 English Composition I 3
PSY 201 General Psychology 3
IDS 109 First Year Experience Seminar 3
or

REQ GEN	Select from General Education	3

Total: 9

Major Requirements

DAT 113 Dental Materials 4
DAT 115 Ethics and Professionalism 1
DAT 118 Dental Morphology 2
DAT 121 Dental Health Education 2
DAT 122 Dental Office Management 2
DAT 123 Oral Medicine-Oral Biology 3
DAT 127 Dental Radiography 4
DAT 154 Clinical Procedures I 4
DAT 177 Dental Office Experience 7
DAT 185 Dental Specialties 5

Total: 34

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes for the program begin each Summer Semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE EXPANDED DUTY DENTAL ASSISTING PROGRAM MUST COMPLETE ALL REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
3. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
4. Submit an Observation Form to HealthSciencesAdmissions@tridenttech.edu documenting a minimum of 5 hours of observation in General Dentistry of a Certified Dental Assistant, graduate of an ADA accredited Dental Assisting Program, or an Expanded Duty Dental Assistant. The applicant is responsible for the observation experience. Forms may be found on the TTC Health Sciences webpage.
5. Submit a Statement of Completion form online. The link to the form can be found on
the Health Sciences webpage the Health Sciences webpage.

General Admission Procedures for the Expanded Duty Dental Assisting Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Expanded Duty Dental Assisting program.

Course Progression

To progress to the next Expanded Duty Dental Assisting term/semester, the student must earn a grade of C or better in all courses required for the program. Student must earn a C or better in professional development for each course.

2024-2025 TTC Catalog

General Technology - Expanded Duty Dental Assisting

Associate in Applied Science in General Technology

Expanded Duty Dental Assisting Career Path

61 Credit Hours

The associate degree in General Technology - Expanded Duty Dental Assisting is a completion program for students who hold a diploma in Dental Assisting. Students who already hold this diploma should consult with the program advisor.

Students can earn only one degree in General Technology in a single career path.

Accreditation

Commission on Dental Accreditation of the American Dental Association
211 East Chicago Ave.
Chicago, IL 60611-2678

General Education Core Requirements

ENG 101 English Composition I 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3
IDS 109 First Year Experience Seminar 3
or

REQ GEN	Select from General Education	3
REQ HUM	Select from Humanities	3

Total: 15

Primary Technical Speciality

DAT 113 Dental Materials 4
DAT 115 Ethics and Professionalism 1
DAT 118 Dental Morphology 2
DAT 121 Dental Health Education 2
DAT 122 Dental Office Management 2
DAT 123 Oral Medicine-Oral Biology 3
DAT 127 Dental Radiography 4
DAT 154 Clinical Procedures I 4
DAT 177 Dental Office Experience 7
DAT 185 Dental Specialties 5

Total: 34

Secondary Technical Specialty

Students must select a minimum of 12 hours from the following courses to meet career goals.

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
ECO 210 Macroeconomics 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3
PSY 203 Human Growth and Development 3
SOC 101 Introduction to Sociology 3
SPA 101 Elementary Spanish I 4
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

Total: 12

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes for the program begin each Summer Semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE GENERAL TECHNOLOGY - EXPANDED DUTY DENTAL ASSISTING PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**. Application link can be found on the TTC Health Sciences webpage.
2. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
3. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
4. Submit an Observation Form to HealthSciencesAdmissions@tridenttech.edu documenting a minimum of 5 hours of observation in General Dentistry of a Certified Dental Assistant, graduate of an

ADA accredited Dental Assisting Program, or an Expanded Duty Dental Assistant. The applicant is responsible for the observation experience. Forms may be found on the TTC Health Sciences webpage.

5. Submit a Statement of Completion form online. The link to the form can be found on
the Health Sciences webpage.

General Admission Procedures for the Expanded Duty Dental Assisting Program

1. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.
2. Students will be required to provide a completed, current Health Sciences–Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Expanded Duty Dental Assisting program.

Course Progression

To progress to the next Expanded Duty Dental Assisting term/semester, the student must earn a grade of C or better in all courses required for the program. Student must earn a C or better in professional development for each EDDA course.

2024-2025 TTC Catalog

General Technology - Medical Assisting

Associate in Applied Science in General Technology

Medical Assisting Career Path

60 Credit Hours

This associate degree in General Technology – Medical Assisting is a completion program for students who hold a diploma in Medical Assisting. Students may complete this degree concurrently with the Medical Assisting Diploma.Students who already hold this diploma should consult with the program advisor.

Students can earn only one degree in General Technology in a single career path.

General Education Requirements

ENG 101 English Composition I 3
MAT 155 Contemporary Mathematics 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
AHS 121 Basic Pharmacology 2
AHS 142 Phlebotomy 2
AHS 170 Fundamentals of Disease 3
MED 103 Medical Assisting Introduction 3
MED 122 Medical Assisting Lab Procedures I 2
MED 125 Medical Assisting Advanced Laboratory 2
MED 131 Administrative Skills of Medical Office I 2
MED 134 Medical Assisting Financial Management 2
MED 135 Medical Office Insurance I 2
MED 136 Medical Office Insurance II 2
MED 141 Medical Office Clinical Skills I 2
MED 142 Medical Office Clinical Skills II 2
MED 151 Medical Assisting Clinical I 4
MED 152 Medical Assisting Clinical II 4

Total: 37

Other Requirements

Select a minimum of 8 credit hours from the following:

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BUS 101 Introduction to Business 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MKT 101 Marketing 3
PSY 212 Abnormal Psychology 3
PSY 203 Human Growth and Development 3
SOC 101 Introduction to Sociology 3

Total: 8

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. The program begins Summer Semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE GENERAL TECHNOLOGY - MEDICAL ASSISTING PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete AOT 105 Keyboarding or high school keyboarding with a minimum grade of C. Contact the Medical Assisting Program faculty regarding keyboarding options.
3. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
5. Submit the Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

1.

General Admission Procedures for the Medical Assisting Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as

well as current Healthcare Provider BLS CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Medical Assisting program.

Course Progression

In order to progress to the next term/semester once accepted into the program, students must:

1. Earn a grade of C or better in all courses required for the program.
2. Earn a satisfactory grade of S on professional development evaluation.
3. Maintain a minimum 2.0 cumulative GPA throughout the program.
4. Successfully meet a stringent clinical attendance policy.

2024-2025 TTC Catalog

Health Information Management

Associate in Applied Science in Health Information Management

71 Credit Hours

Health Information Management is a health care profession that ensures the quality of health records by verifying their completeness, accuracy, and proper entry into computer systems; uses computer applications to collect and analyze patient data for the purpose of improving patient care, controlling costs, ensuring legal and ethical compliance and mitigating risk associated with inaccurate data. Students develop competencies in diagnosis and procedure coding for reimbursement and research; health information privacy and security and healthcare quality and performance improvement.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
BIO 112 Basic Anatomy and Physiology 4
HIM 101 Introduction to Health Information 1
HIM 110 Health Information Science I 3
HIM 120 Health Information Science II 3
HIM 130 Billing and Reimbursement 3
HIM 135 Medical Pathology 3
HIM 140 Current Procedural Terminology I 3
HIM 141 Current Procedural Terminology II 3
HIM 163 Supervised Clinical Practice I 3
HIM 164 Supervised Clinical Practice II 3
HIM 200 Fundamentals of Data Analytics and Reporting 3
HIM 215 Registries and Statistics 3
HIM 216 Coding and Classification I 3
HIM 225 Coding and Classification II 3
HIM 227 Senior Professional Competencies 3
HIM 235 Law and Ethics in Health Informatics and Information Management 3
HIM 265 Supervisory Principles 3

HIM 266 Computers in Health Care 3

Total: 56

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted Classes for the full-time format begin each Fall semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE HIM PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application.**
2. Complete PSY 201 General Psychology, MAT 120 Probability and Statistics, and IDS 109 First Year Experience Seminar. These courses must be completed with a minimum grade of C.
3. The applicant must possess the ability to keyboard 30 words a minute. Students can demonstrate this level of competency in a variety of ways, including passing the keyboarding skills test offered by the Business Department, completing AOT 105 Keyboarding, or providing proof of high school keyboarding with a minimum grade of C. (Please see HIM faculty for more details).
4. The applicant must achieve a minimum 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
5. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
6. Submit a Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Health Information Management Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Health Information Management program.

Course Progression

In order to progress to the next semester once accepted into the program, students must:

1. Earn a grade of C or better in all courses required for the program.
2. Maintain a minimum 2.0 cumulative GPA throughout the program.
3. Earn a satisfactory grade of S on all professional development evaluations.
4. Successfully meet the clinical attendance policy.

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Health Sciences Preparation

Certificate in Applied Science

26-34 Credit Hours

This certificate assists students in preparing for careers in Health Sciences professions and strengthens the academic skills of students seeking admission to a Health Sciences degree program at the college. The certificate will provide students structured guidance on the prerequisite and requisite courses for the Health Sciences programs.

Health Science degree applicants complete one of the following options.

Pathway 1: For Associate Degree in Dental Hygiene applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
CHM 105 General Organic and Biochemistry 4
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3
SOC 101 Introduction to Sociology 3

REQ HUM	Select from Humanities	3

Total: 34

Pathway 2: For Associate Degree in Emergency Medical Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 2:

Students work with academic advisor to choose 3 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 3: For Associate Degree in General Technology Expanded Duty Dental Assisting applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
IDS 109 First Year Experience Seminar 3
or

REQ GEN	Select from General Education	3
REQ HUM	Select from Humanities	3

Other Requirements for Pathway 3:

Students must also select a minimum of 11 hours from the below listed courses to meet career goals. Students who intend to seek a management position in the dental services field should select the management and/or marketing courses.

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
ECO 210 Macroeconomics 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MGT 270 Managerial Communication 3
MKT 101 Marketing 3
PSY 203 Human Growth and Development 3
SOC 101 Introduction to Sociology 3
SPA 101 Elementary Spanish I 4
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

Total: 26

Pathway 4: For Associate Degree in Health Information Management applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
AHS 104 Medical Vocabulary-Anatomy 3
BIO 112 Basic Anatomy and Physiology 4

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 4:
Students work with academic advisor to choose a minimum of 4 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 5: For Associate Degree in General Technology Medical Assisting applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
AHS 104 Medical Vocabulary-Anatomy 3
AHS 121 Basic Pharmacology 2
AHS 142 Phlebotomy 2
AHS 170 Fundamentals of Disease 3
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 5:

These students must also select a minimum of 8 hours from the below listed courses to meet career goals.

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BUS 101 Introduction to Business 3
MGT 101 Principles of Management 3
MGT 120 Small Business Management 3
MKT 101 Marketing 3
PSY 203 Human Growth and Development 3
PSY 212 Abnormal Psychology 3
SOC 101 Introduction to Sociology 3

Total: 33

Pathway 6: For Associate Degree in Medical Laboratory Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
AHS 104 Medical Vocabulary-Anatomy 3
AHS 142 Phlebotomy 2

BIO 112 Basic Anatomy and Physiology 4
CHM 110 College Chemistry I 4
MAT 110 College Algebra 3

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 6:
Students work with academic advisor to choose a minimum of 1 credit hour of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 7: For Associate Degree Occupational Therapy Assistant applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
PHI 101 Introduction to Philosophy 3
AHS 104 Medical Vocabulary-Anatomy 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
ENG 102 English Composition II 3
MAT 120 Probability and Statistics 3
PSY 203 Human Growth and Development 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

Total: 32

Pathway 8: For Associate Degree Physical Therapist Assistant applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 8:
Students work with academic advisor to choose a minimum of 6 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 9: For Associate Degree Radiologic Technology applicants only

ENG 101 English Composition I 3

PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
MAT 110 College Algebra 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 9:
Students work with academic advisor to choose a minimum of 3 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 10: For Associate Degree Respiratory Care applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
AHS 104 Medical Vocabulary-Anatomy 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4

REQ HUM	Select from Humanities	3

Other Requirements for Pathway 10:
Students work with academic advisor to choose a minimum of 2 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Pathway 11: For Associate Degree Surgical Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
AHS 104 Medical Vocabulary-Anatomy 3
AHS 130 Surgical Environment for Health Professionals 3
MAT 120 Probability and Statistics 3
or
MAT 110 College Algebra 3

REQ HUM	Select from Humanities	3

Total: 26

Pathway 12: For Associate Degree Veterinary Technology applicants only

ENG 101 English Composition I 3
PSY 201 General Psychology 3
PHI 110 Ethics 3
BIO 101 Biological Science I 4
BIO 225 Microbiology 4
MAT 120 Probability and Statistics 3

Other Requirements for Pathway 12:
Students work with academic advisor to choose a minimum of 6 credit hours of appropriate courses required for designated Health Sciences degree.

Total: 26

Admission into this program requires proof of high school graduation or GED and qualifying placement levels. Students must meet with a Health Sciences academic advisor in their desired program of study to discuss their academic plan.

Note: Completion of the Health Science Preparation certificate does not automatically admit a student into their chosen career path. Students must complete all courses in their chosen career path with a grade of C or better and meet all other admission requirements according to their program of study. Please see the specific Health Sciences program webpage for additional information regarding admission.

2024-2025 TTC Catalog

Medical Assisting

Diploma in Applied Science in Medical Assisting

46 Credit Hours

The Medical Assisting program prepares students to help other health care providers examine and treat patients and perform routine tasks needed to keep offices running smoothly. Duties may be administrative, clinical or both. Graduates who work in a small office or health care facility may handle both clinical and clerical duties. Graduates working in larger medical practices will probably specialize in either the clinical or administrative aspects of the job.

Graduates of the program are eligible to take the national CMA (AAMA) certification examination.

Accreditation

Commission on Accreditation of Allied Health Education Programs
9355 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org

General Education Core Requirements

ENG 101 English Composition I 3
PSY 201 General Psychology 3
MAT 155 Contemporary Mathematics 3
or
MAT 120 Probability and Statistics 3
or
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

Total: 9

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
AHS 121 Basic Pharmacology 2
AHS 142 Phlebotomy 2
AHS 170 Fundamentals of Disease 3
MED 103 Medical Assisting Introduction 3
MED 122 Medical Assisting Lab Procedures I 2
MED 125 Medical Assisting Advanced Laboratory 2
MED 131 Administrative Skills of Medical Office I 2

MED 134 Medical Assisting Financial Management 2
MED 135 Medical Office Insurance I 2
MED 136 Medical Office Insurance II 2
MED 141 Medical Office Clinical Skills I 2
MED 142 Medical Office Clinical Skills II 2
MED 151 Medical Assisting Clinical I 4
MED 152 Medical Assisting Clinical II 4

Total: 37

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. The program begins Summer Semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE GENERAL TECHNOLOGY MEDICAL ASSISTING PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete AOT 105 Keyboarding or high school keyboarding with a minimum grade of C. Contact the Medical Assisting Program faculty regarding keyboarding options.
3. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
5. Submit a Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Medical Assisting Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider BLS CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Medical Assisting program.

Course Progression

In order to progress to the next term/semester once accepted into the program, students must:

1. Earn a grade of C or better in all courses required for the program.
2. Earn a satisfactory grade of S on professional development evaluation.
3. Maintain a minimum 2.0 cumulative GPA throughout the program.
4. Successfully meet a stringent clinical attendance policy.

2024-2025 TTC Catalog

Medical Laboratory Technology

Associate in Applied Science in Medical Laboratory Technology

68 Credit Hours

The Medical Laboratory Technology program prepares students for entry-level positions in the field of medical laboratory science. Typical jobs include medical laboratory technician in a hospital laboratory setting.
The degree prepares students to take the ASCP (American Society for Clinical Pathology) Board of Certification or the AMT (American Medical Technology) Certification exams. These exams are the nationally recognized credentialing exams for the majority of the medical laboratory employers in accordance with the CLIA'88 personnel standards. The students are also eligible to sit for state licensure boards in all states with the exception of California upon completion of this program. The credential the students earn upon certification by either exam is Medical Laboratory Technician.

Accreditation

National Accrediting Agency for Clinical Laboratory Sciences
5600 N. River Road, Suite 720
Rosemont, IL 60018-5119

General Education Core Requirements

ENG 101 English Composition I 3
CHM 110 College Chemistry I 4
MAT 110 College Algebra 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 16

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
AHS 142 Phlebotomy 2
BIO 112 Basic Anatomy and Physiology 4 *
MLT 101 Introduction to Medical Laboratory Technology 2
MLT 103 Introductory Topics in Medical Microbiology 4
MLT 106 Urinalysis and Body Fluids 2
MLT 107 Clinical Experience in Urinalysis and Body Fluids 1
MLT 109 Hematology I 2
MLT 111 Hematology II 2
MLT 115 Immunology 3
MLT 116 Basic Concepts of Blood Banking 2

MLT 135 Clinical Chemistry and Instrumentation 3
MLT 206 Advanced Microbiology I 2
MLT 207 Advanced Microbiology II 2
MLT 211 Advanced Hematology I 2
MLT 212 Advanced Hematology II 2
MLT 216 Advanced Skills in Blood Banking 2
MLT 271 Clinical Applications I 3
MLT 272 Clinical Applications II 3
MLT 273 Clinical Applications III 3
MLT 274 Clinical Applications IV 3

*May substitute BIO 210 and 211 for BIO 112.

Total: 52

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes for the full-time format begin each Spring semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE MLT PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete MAT 110 College Algebra, CHM 110 College Chemistry, BIO 112 Basic Anatomy and Physiology, AHS 104 Medical Vocabulary/Anatomy, and AHS 142 Phlebotomy.
    a. These courses must be completed with a minimum grade of C.
    b. Laboratory science courses, AHS 104 and AHS 142, must have been taken within five years of acceptance into the program. AHS 142 Phlebotomy may be substituted by submitting proof of current ASCP Certification and current work experience (showing minimum of 20 hours per week) using the ASCP Board of Certification Work Experience Documentation form for Phlebotomy Technician found on the ASCP website.
    c. The applicant must achieve a minimum 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
3. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
4. Submit the Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Medical Laboratory Technology Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Medical Laboratory Technology Program.

Course Progression

In order to progress to the next semester once accepted into the program, students must earn a grade of C or better in each course and earn a grade of satisfactory on professional development evaluations in order to progress to the next semester.

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Occupational Therapy Assistant

Associate in Applied Science in Occupational Therapy Assistant

76 Credit Hours

The program prepares students to sit for the national certification examination for occupational therapy assistants. Successful completion of this examination entitles the individual to practice as a Certified Occupational Therapy Assistant.

Accreditation

ACOTE c/o American Occupational Therapy Association
7501 Wisconsin Avenue, Suite 510E
Bethesda, MD 20814
301.652.6611
www.acoteonline.org

General Education Core Requirements

ENG 101 English Composition I 3
ENG 102 English Composition II 3
MAT 120 Probability and Statistics 3
PHI 101 Introduction to Philosophy 3
PSY 201 General Psychology 3

Total: 15

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
OTA 101 Fundamentals of Occupational Therapy 3
OTA 102 Therapeutic Processes 2
OTA 105 Therapeutic Analysis in Occupational Therapy 3
OTA 142 OTA Clinical Introduction I 1
OTA 144 OTA Clinical Introduction II 1
OTA 155 Gerontology 2
OTA 162 Psychosocial Dysfunction 3
OTA 164 Physical Dysfunction 6
OTA 176 Pediatric Development and Dysfunction 4
OTA 203 Kinesiology for Occupational Therapy 3
OTA 245 Occupational Therapy Departmental Management 2
OTA 262 OTA Clinical Application I 7
OTA 264 OTA Clinical Application II 7
PSY 203 Human Growth and Development 3
SPC 205 Public Speaking 3

or
SPC 209 Interpersonal Communication 3

Total: 61

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and OTA program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes begin Summer Semester of each year.
In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE OCCUPATIONAL THERAPY ASSISTANT PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Provide proof that all prerequisite courses (AHS 104, BIO 210, BIO 211, PSY 203, SPC [205 or 209], and the General Education courses) required in the Occupational Therapy Assistant program have been completed.
    a. These courses must be completed with a minimum grade of C.
    b. Achieve a minimum cumulative 2.5 GPA in the two required science (BIO 210 and BIO 211) and math (MAT 120) courses.
3. Laboratory science courses and AHS 104 Medical Vocabulary/Anatomy must have been taken within five years of acceptance into the program.
4. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the OTA Information Session and quiz as well as the OTA Observation Video and quiz. Students must achieve a 100% score on each of the quizzes to verify the information was reviewed and understood.
5. Submit a Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Occupational Therapy Assistant Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Occupational Therapy Assistant program.

Course Progression

To progress to the next Occupational Therapy Assistant term/semester, the student must complete all Occupational Therapy Assistant courses with a grade of C or better. The student must earn a grade of satisfactory on the final professional development evaluation each semester of the program.
Note: Students are responsible for transportation, meals and housing expenses during field work.

2024-2025 TTC Catalog

Physical Therapist Assistant

Associate in Applied Science in Physical Therapist Assistant

69 Credit Hours

The Physical Therapist Assistant program prepares students to implement physical therapy interventions, including therapeutic exercises, functional training and physical modalities such as electrotherapy and ultrasound, as well as providing instruction in exercise, proper body mechanics and other injury prevention and wellness topics. Additional duties include reimbursement responsibilities, documentation and continuing education. PTAs work under the direction and supervision of a physical therapist. Graduates become licensed by passing the National Physical Therapy Exam for Physical Therapist Assistants.

Accreditation

Commission on Accreditation in Physical Therapy Education (CAPTE)
3030 Potomac Ave.
Suite 100
Alexandria, VA 22305-3085
703.706.3245
accreditation@apta.org
www.capteonline.org

General Education Core Requirements

BIO 210 Anatomy and Physiology I 4
ENG 101 English Composition I 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 16

Major Requirements

BIO 211 Anatomy and Physiology II 4
PTH 101 Physical Therapy Professional Preparation 2
PTH 118 Physical Agents and Modalities 4
PTH 205 Physical Therapy Functional Anatomy 4
PTH 210 Patient Care Techniques 4
PTH 221 Pathology I 2
PTH 222 Pathology II 2
PTH 235 Interpersonal Dynamics 2

PTH 240 Therapeutic Exercises/Applications 5
PTH 242 Orthopedic Management 4
PTH 244 Rehabilitation 4
PTH 250 Special Topics in Physical Therapy 1
PTH 252 Clinical Practice 2
PTH 266 Physical Therapy Practicum I 6
PTH 275 Advanced Professional Preparation 1
PTH 276 Physical Therapy Practicum II 6

Total: 53

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes in this program begin Summer Semester.
In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE PHYSICAL THERAPIST ASSISTANT PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the online **Health Sciences Application**.
2. Provide proof that all prerequisite courses (the General Education courses and BIO 211) required in the Physical Therapist Assistant program have been completed.
   a. These courses must be completed with a minimum grade of C.
   b. Achieve a minimum cumulative 2.75 GPA in the required science (BIO 210 and BIO 211), math (either MAT 120 or MAT 110), and English (ENG 101) courses.
3. Laboratory science courses must have been taken within five years of acceptance into the program.
4. The PTA Program has a Repeat Rule regarding admissions: No more than four of the six prerequisite courses may be attempted more than two times.
5. After submitting a Health Sciences Application, the student will receive details in their Trident Technical College email from the Health Sciences Admissions Coordinator regarding the Online Information Session and Quiz. Students must score 100% on the quiz to verify the information was received and understood.
6. Submit Observation Forms to HealthSciencesAdmissions@tridenttech.edu documenting a minimum of 40 hours spent in a physical therapy facility. A minimum of 20 hours must be in an inpatient acute care or acute rehab hospital. The applicant is responsible for the observation experience. Forms may be found on the TTC Health Sciences and PTA webpage.
7. Submit a Statement of Completion form online. The link to the form can be found on
   the Health Sciences webpage.

General Admission Procedures for the Physical Therapist Assistant Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.
   Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Physical Therapist Assistant program.

Course Progression

To progress to the next Physical Therapist Assistant term/semester, the student must complete all Physical Therapist Assistant courses with a grade of C or better. The student must earn a grade of satisfactory on the final professional development evaluation each semester of the program.

Note: Students are responsible for transportation, meals and housing expenses during clinical rotations.

2024-2025 TTC Catalog

Radiologic Technology

Associate in Applied Science in Radiologic Technology

83 Credit Hours

The Radiologic Technology program prepares students to provide patient services using imaging modalities, as directed by physicians in order to perform radiologic procedures. Graduates are eligible to apply to take the National Certification Examination offered by the American Registry of Radiologic Technologists.

Accreditation

Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182
312.704.5300
mail@jrcert.org
www.jrcert.org

General Education Core Requirements

ENG 101 English Composition I 3
MAT 110 College Algebra 3
PSY 201 General Psychology 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
RAD 101 Introduction to Radiography 2
RAD 102 Radiology Patient Care Procedures 2
RAD 121 Radiographic Physics 4
RAD 127 Procedures in Radiography I 2
RAD 128 Procedures in Radiography II 1
RAD 129 Radiographic Positioning I 2
RAD 139 Radiographic Positioning II 1
RAD 150 Clinical Applications I 4
RAD 155 Applied Radiography I 5
RAD 165 Applied Radiography II 5
RAD 180 Introduction to Radiographic Imaging I 1

RAD 181 Imaging Principles I 1
RAD 201 Radiation Biology 2
RAD 205 Radiographic Pathology 2
RAD 225 Selected Radiographic Topics 2
RAD 230 Radiographic Procedures III 3
RAD 235 Radiographic Seminar I 1
RAD 236 Radiography Seminar II 2
RAD 257 Advanced Radiography I 7
RAD 267 Advanced Radiography II 7
RAD 280 Advanced Imaging I 2
RAD 281 Advanced Imagining II 2

Total: 68

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes for the program begin each Summer semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE RADIOLOGIC TECHNOLOGY PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete MAT 110 College Algebra, BIO 210 Anatomy and Physiology I and BIO 211 Anatomy and Physiology II.
   a. These courses must be completed with a with minimum grade of C**.**
   b. Laboratory science courses must be completed within five years of the program start date.
   c. The applicant must achieve a minimum cumulative 2.5 GPA in the above required science (BIO 210 and BIO 211) and math (MAT 110) courses.
3. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
4. Submit the Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Radiologic Technology Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as

well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Radiologic Technology program.

Course Progression

In order to progress to the next term/semester once accepted into the program, students must do the following:

1. Earn a grade of C or better in all courses required for the program.
2. Earn a satisfactory grade of S on professional development evaluation.
3. Maintain a minimum 2.0 cumulative GPA throughout the program.
4. Successfully meet a stringent clinical attendance policy.

2024-2025 TTC Catalog

Respiratory Care

Associate in Applied Science in Respiratory Care

81 Credit Hours

Respiratory care is a health sciences specialty that focuses on the treatment, management, control, diagnostic evaluation and care of patients with deficiencies and abnormalities associated with the cardiopulmonary system.

TTC's Respiratory Care program prepares students for employment as advanced-level respiratory care practitioners. The Respiratory Care program is housed on Thornley Campus.
The program prepares students to sit for the National Board for Respiratory Care's registry examinations. Upon successful completion of these exams, graduates are designated as Registered Respiratory Therapists.

Accreditation

Commission on Accreditation for Respiratory Care
264 Precision Blvd
Telford, TN 37690
817.283.2835
www.coarc.com

General Education Core Requirements

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
ENG 101 English Composition I 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 17

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
BIO 225 Microbiology 4
RES 110 Cardiopulmonary Science I 2
RES 111 Pathophysiology 2
RES 112 Cardiopulmonary Pathophysiology 3
RES 121 Respiratory Skills I 4
RES 131 Respiratory Skills II 4
RES 140 Introduction to Mechanical Ventilation 2
RES 142 Basic Pediatric Care 2
RES 150 Clinical Applications I 4

RES 152 Clinical Applications II 3
RES 205 Neonatal Respiratory Care 2
RES 210 Cardiopulmonary Science II 3
RES 220 Hemodynamic Monitoring 1
RES 235 Respiratory Diagnostics 4
RES 243 Mechanical Ventilation II 2
RES 246 Respiratory Pharmacology 2
RES 247 Advanced Respiratory Pharmacology 2
RES 249 Comprehensive Applications 2
RES 253 Advanced Clinical Studies I 6
RES 254 Advanced Clinical Studies II 7

Total: 64

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes in this program begin Summer Semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE RESPIRATORY CARE PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete the following courses with a minimum grade of C.
    a. MAT 102 Intermediate Algebra or higher (or achieve a qualifying equivalent math placement)
    b. BIO 210 Anatomy and Physiology I. This course must have been taken within five years of acceptance into the program.
3. Achieve a minimum cumulative 2.75 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
5. Submit the Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Respiratory Care Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Respiratory Care program.

Course Progression

To progress to the next Respiratory Care term/semester, students must do the following:

1. Earn a C or better in all courses required for the program.
2. Earn a satisfactory grade of S on all professional development evaluations.

2024-2025 TTC Catalog

Surgical Technology

Associate in Applied Science in Surgical Technology

69 Credit Hours

The Surgical Technology program prepares students to enter the workforce with skills required in surgical technology. Graduates of this program will be skilled in providing proficient care to individuals in the surgical arena.

General Education Core Requirements

BIO 210 Anatomy and Physiology I 4
ENG 101 English Composition I 3
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 16

Major Requirements

AHS 104 Medical Vocabulary-Anatomy 3
AHS 130 Surgical Environment for Health Professionals 3
BIO 211 Anatomy and Physiology II 4
SUR 101 Introduction to Surgical Technology 5
SUR 102 Applied Surgical Technology 5
SUR 103 Surgical Procedures I 4
SUR 104 Surgical Procedures II 4
SUR 105 Surgical Procedures III 4
SUR 110 Introduction to Surgical Practicum 5
SUR 112 Surgical Practicum I 4
SUR 113 Advanced Surgical Practicum 6
SUR 120 Surgical Seminar 2
SUR 123 Sterile Processing Technology 3
SUR 130 Biomedical Science for the Surgical Technologist 1

Total: 53

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. The program begins Fall Semester of each year.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, applicants to the surgical technology program must complete all of the following requirements.

1. Complete the Health Sciences Application.
2. Complete BIO 210 Anatomy and Physiology I and AHS 104 Medical Vocabulary/ Anatomy with a minimum grade of C. Potential students must complete both courses within the previous five years of the program acceptance date.
3. Achieve a minimum cumulative 2.5 GPA in the above-required prerequisite courses (BIO 210 and AHS 104).
4. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
5. Submit a Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Surgical Technology Program:

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider BLS CPR certification, major medical insurance and medical professional liability coverage.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program Failure to attend will result in forfeiture of seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Surgical Technology program.

Course Progression

To progress to the next Surgical Technology term/semester, the student must complete all courses required in the Surgical Technology program with a grade of C or better.

2024-2025 TTC Catalog

Veterinary Technology

Associate in Applied Science in Veterinary Technology

71 Credit Hours

The Veterinary Technology curriculum prepares graduates to assist large and small animal veterinarians and provides opportunities for careers in research laboratories and pharmaceutical and veterinary supply businesses.

Veterinary technicians assist by obtaining and recording information about cases, preparing animals for medical and surgical procedures, obtaining specimens, performing laboratory procedures, applying bandages and splints, assisting with anesthesia and surgery, and many other challenging tasks.

Upon graduation, students are eligible to take the Veterinary Technician National Exam and the South Carolina licensing exam. Successful completion of both of these examinations will earn the graduate the opportunity to be recognized officially as a licensed veterinary technician.

Accreditation

Committee on Veterinary Technician Education and Activities
American Veterinary Medical Association
1931 N. Meacham Road, Suite 100
Schaumburg, IL 60173-4630

General Education Core Requirements

BIO 101 Biological Science I 4
ENG 101 English Composition I 3
MAT 120 Probability and Statistics 3
PHI 110 Ethics 3
PSY 201 General Psychology 3

Total: 16

Major Requirements

BIO 225 Microbiology 4
VET 101 Animal Breeds and Husbandry 3
VET 104 Veterinary Anatomy and Physiology 3
VET 105 Orientation to Veterinary Technology 1
VET 112 Veterinary Terminology and Calculations 2
VET 117 Animal Nutrition 2
VET 119 Veterinary Diagnostic Imaging and Dentistry 3
VET 140 Veterinary Pharmacology 2
VET 142 Veterinary Anesthesia 3
VET 152 Clinical Pathology 4

VET 160 Clinical Techniques II 3
VET 170 Veterinary Technician Externship 6
VET 203 Small Animal Diseases, Zoonosis and Client Education 3
VET 207 Large Animal Clinical Practice 3
VET 216 Veterinary Parasitology and Laboratory Animal Medicine 3
VET 240 Office Management and Client Education 3
VET 250 Clinical Techniques III 3
VET 260 Clinical Techniques IV 3
VET 280 Senior Seminar 1

Total: 55

Applicants will be admitted to this program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year that they have been admitted. Classes for the program begin each Fall Semester.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE VETERINARY TECHNOLOGY PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete BIO 101 Biological Science I, BIO 225 Microbiology, and VET 105 Orientation to Veterinary Technology.
    a. These courses must be completed with a minimum grade of C.
    b. Laboratory sciences must have been completed within five years of acceptance into the program.
    c. The applicant must achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
3. After submitting the Health Sciences Application, the student will receive details in their Trident Tech email from the Health Sciences Admissions Coordinator regarding the Information Session and quiz. Students must achieve a 100% score on the online quiz following the session to verify the information was reviewed and understood.
4. Submit an Observation Form to HealthSciencesAdmissions@tridenttech.edu documenting a minimum of 20 hours of observation in an animal care facility with a veterinarian present. Contact the program faculty at 843-899-8011 or 843-899-8086 for assistance in meeting this requirement. Forms may be found on the TTC Health Sciences webpage.
5. Submit a Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.
6. Complete a rabies pre-exposure rabies vaccination series prior to the start of the VET 160 class which is offered in the program's second (Spring) semester.

General Admission Procedures for the Veterinary Technology Program

1. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, Rabies vaccinations, as well as major medical insurance. Please see Program Webpage for further information.
2. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of one's seat in the program.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Veterinary Technology Program.

Course Progression

To progress to the next Veterinary Technology term/semester, the student must do the following:

1. Earn a C or better in all courses required for the program.
2. Earn a satisfactory grade of S on all professional development evaluations.

2024-2025 TTC Catalog - Humanities and Social Sciences

The Humanities and Social Sciences Division provides an Associate in Arts (University Transfer) degree and Associate in Applied Science degrees and certificates to prepare students to meet the demand for qualified professionals. The division also provides support courses for other academic programs.

Associate Degree

Early Care and Education - Child Care Professional

Early Care and Education - Inclusive Care

Early Care and Education - School-Age and Youth Development

Human Services

University Transfer - Associate in Arts

Certificate

American Sign Language

Child Care Management

Early Childhood Development

Infant and Toddler Development

Introductory University Studies

Special Education

University Studies

2024-2025 TTC Catalog

American Sign Language

Certificate in Applied Science

25 Credit Hours

This certificate assists American Sign Language students with developing fluent skills in the communicative use of this language. Topics will include linguistics, as well as a study of the history and culture of Deaf people. This certificate will also enhance the skills of paraeducators and the medical/public service personnel working with the deaf and hard of hearing.

Major Requirements

ASL 101 American Sign Language I 4
ASL 102 American Sign Language II 4
ASL 110 Careers in American Sign Language 2
ASL 201 American Sign Language III 3
ASL 202 American Sign Language IV 3
ECD 107 Exceptional Children 3
ITP 106 Linguistics of American Sign Language 3
ITP 201 Deaf History and Culture 3

Total: 25

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Associate in Arts

60 Credit Hours

This University Transfer (Associate in Arts) degree is designed for students who plan to transfer to four-year programs to major or broaden their general knowledge in the areas of communication, humanities, and social sciences.

Transfer Recommendations:

Students who plan to transfer to a four-year program should select courses that also meet the program requirements at the transfer institution. Students should review the online transfer course guides and meet with their advisor to select appropriate courses.

REACH Act Statement:

Students who plan to transfer to a four-year program at a public institution in South Carolina should consider completing HIS 201 or PSC 201 to fulfill the REACH Act requirement at the transfer institution.

General Education Core Requirements (15 credits)

ENG 101 English Composition I 3
ENG 102 English Composition II 3

REQ SSC	Select from Behavioral/Social Sciences	3
REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

Communication or Literature

Select three semester credit hours from the following.

ENG 203 American Literature Survey 3
ENG 205 English Literature I 3
ENG 206 English Literature II 3
ENG 208 World Literature I 3
ENG 209 World Literature II 3

ENG 236 African-American Literature 3
ENG 260 Advanced Technical Communications 3
ENG 263 Writing for Social Media 3
ENG 265 Advanced Professional Communications 3
SPC 205 Public Speaking 3
SPC 209 Interpersonal Communication 3
THE 101 Introduction to Theater 3

Total: 3

Mathematics or Natural Sciences

Select a minimum of six semester hours from the following.

AST 101 Solar System Astronomy 4
AST 102 Stellar Astronomy 4
BIO 101 Biological Science I 4
BIO 102 Biological Science II 4
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
CHM 110 College Chemistry I 4
CHM 111 College Chemistry II 4
MAT 110 College Algebra 3
MAT 111 College Trigonometry 3
MAT 112 Precalculus 5
MAT 115 Analytical Foundations for Calculus 4
MAT 120 Probability and Statistics 3
MAT 123 Contemporary College Mathematics 3
MAT 130 Elementary Calculus 3
MAT 140 Analytic Geometry and Calculus I 4
MAT 155 Contemporary Mathematics 3
PHY 201 Physics I 4
PHY 202 Physics II 4

Total: 6-8

Communication, Humanities, and Social Sciences

Select 21 semester credit hours from the following. Additional courses from the Communication or Literature category above may also be used.

ANT 101 General Anthropology 3
ART 101 Art History and Appreciation 3
ART 107 History of Early Western Art 3
ART 108 History of Western Art 3
ECO 210 Macroeconomics 3
ECO 211 Microeconomics 3
ENG 203 American Literature Survey 3
ENG 205 English Literature I 3
ENG 206 English Literature II 3
ENG 208 World Literature I 3

ENG 209 World Literature II 3
ENG 236 African-American Literature 3
ENG 238 Creative Writing 3
ENG 242 Advanced Creative Writing 3
ENG 299 Special Topics in English 3
FRE 101 Elementary French I 4
FRE 102 Elementary French II 4
FRE 201 Intermediate French I 3
FRE 202 Intermediate French II 3
GEO 102 World Geography 3
HIS 101 Western Civilization to 1689 3
HIS 102 Western Civilization Post 1689 3
HIS 104 World History I 3
HIS 105 World History II 3
HIS 106 Introduction to African History 3
HIS 130 African-American History to 1877 3
HIS 131 African-American History: 1877 to Present 3
HIS 201 American History: Discovery to 1877 3
HIS 202 American History - 1877 to Present 3
HIS 226 Black History and Culture of the South Carolina 3
HSS 110 History of Ideas 3
JOU 101 Journalism 3
MUS 105 Music Appreciation 3
MUS 110 Music Fundamentals 3
PHI 101 Introduction to Philosophy 3
PHI 105 Introduction to Logic 3
PHI 110 Ethics 3
PSC 201 American Government 3
PSC 215 State and Local Government 3
PSC 220 Introduction to International Relations 3
PSY 201 General Psychology 3
PSY 203 Human Growth and Development 3
PSY 212 Abnormal Psychology 3
REL 101 Introduction to Religion 3
SOC 101 Introduction to Sociology 3
SOC 102 Marriage and the Family 3
SOC 205 Social Problems 3
SOC 210 Juvenile Delinquency 3
SPA 101 Elementary Spanish I 4
SPA 102 Elementary Spanish II 4
SPA 201 Intermediate Spanish I 3
SPA 202 Intermediate Spanish II 3
SPC 205 Public Speaking 3
SPC 209 Interpersonal Communication 3
SPC 225 Introduction to Communication Theory 3
THE 101 Introduction to Theater 3

Total: 21

Electives

Select fifteen (15) hours of college-level credit from the current catalog. Contact your advisor to move excess credits from any other requirement to electives. Non-equivalent transfer credit (e.g., SCS-001, HUM-001) may also be eligible for credit.

Total: 15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Other Degree Information

Students may earn transfer credit towards the degree from other regionally accredited colleges, but at least 25% of the total hours for the AA program (i.e., a minimum of 15 credits) must be taken at TTC.

Students should not complete more than 15 hours of courses with the same prefix.

2024-2025 TTC Catalog

Child Care Management

Certificate in Applied Science
36 Credit Hours

This certificate prepares students to work in supervisory, management, or administrative positions in early childhood development.

Major Requirements

ECD 101 Introduction to Early Childhood 3
ECD 102 Growth and Development I 3
ECD 105 Guidance-Classroom Management 3
ECD 106 Observation of Young Children 3
ECD 107 Exceptional Children 3
ECD 108 Family and Community Relations 3
ECD 109 Administration and Supervision 3
ECD 135 Health, Safety and Nutrition 3
ECD 201 Principles of Ethics and Leadership in Early Care 3
ECD 203 Growth and Development II 3
ECD 237 Methods and Materials 3
MGT 101 Principles of Management 3
or
MGT 120 Small Business Management 3

Total: 36

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Program admission requires a health assessment denoting good health, a negative tuberculosis skin test, and compliance with technical standards. A clear criminal background check by the South Carolina Law Enforcement Division (SLED) is also required. In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering these laboratory courses may opt to be fingerprinted. Fingerprinting and a SLED background check are required for the early care and education workforce.

2024-2025 TTC Catalog

Early Care and Education - Child Care Professional

Associate in Applied Science in Early Care and Education

Child Care Professional Career Path

66 Credit Hours

The Early Care and Education program provides a solid foundation for graduates so that they may use developmentally appropriate, research-based and current knowledge in early care and education to build intentional teaching skills. Students gain quality intentional early learning experiences as well as understanding the responsibility of the professional in the field of early care and education. Students also construct a professional pedagogy that they will be able to use in the classroom with young children. In the process of developing their own pedagogy, students will create a disposition of collaboration that recognizes the diversity of families and the larger community. Off-campus observation and field experiences are provided in diverse settings that allow for quality practical and hands-on experiences. Upon successful completion of the program, each student will have the tools that will make them intentional teachers and caregivers.

The Child Care Professional career path prepares students to work as teachers in child care centers or as teacher assistants in a public school early childhood program. Students learn to teach children birth through age five and develop knowledge and skills required to promote optimal development for all children, including all backgrounds and abilities. This career path also prepares students to operate child care centers or to work in supervisory, management or administrative positions in the early care and education field. This career path does not lead to teacher certification for public school teachers.

Students can earn only one ECD degree in a single career path.

Accreditation

National Association for the Education of Young Children (NAEYC) Commission on the Accreditation of Early Childhood Higher Education Programs.
1401 H Street NW, Suite 600
Washington, DC 20005-4101
(800) 424-2460

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3

REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ECD 101 Introduction to Early Childhood 3
ECD 102 Growth and Development I 3
ECD 105 Guidance-Classroom Management 3
ECD 107 Exceptional Children 3
ECD 108 Family and Community Relations 3
ECD 109 Administration and Supervision 3
ECD 131 Language Arts 3
ECD 132 Creative Experiences 3
ECD 133 Science and Math Concepts 3
ECD 135 Health, Safety and Nutrition 3
ECD 140 Early Childhood Practicum I 2
ECD 201 Principles of Ethics and Leadership in Early Care 3
ECD 203 Growth and Development II 3
ECD 237 Methods and Materials 3
ECD 243 Supervised Field Experience I 3
ECD 252 Diversity Issues in Early Care and Education 3
EDU 241 Learners and Diversity 4

Total: 51

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: The Early Care and Education associate degree also requires the following requirements as prerequisites to labs in licensed child care centers and/or public schools: a health assessment denoting good heath, a negative tuberculosis skin test, compliance with technical standards, and a clear criminal background check by the South Carolina Law Enforcement Division (SLED). In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering these laboratory or off campus observation courses may opt to be fingerprinted. Fingerprinting and a SLED background check are required for the Early Care and Education workforce.

2024-2025 TTC Catalog

Early Care and Education - Inclusive Care

Associate in Applied Science in Early Care and Education

Inclusive Care

66 Credit Hours

The Early Care and Education program provides a solid foundation for graduates so that they may use developmentally appropriate, research-based and current knowledge in early care and education to build intentional teaching skills. Students gain quality intentional early learning experiences as well as understanding the responsibility of the professional in the field of early care and education. Students also construct a professional pedagogy that they will be able to use in the classroom with young children. In the process of developing their own pedagogy, students will create a disposition of collaboration that recognizes the diversity of families and the larger community. Off-campus observation and field experiences are provided in diverse settings that allow for quality practical and hands-on experiences. Upon successful completion of the program, each student will have the tools that will make them intentional teachers and caregivers.

The Inclusive Care career path prepares students to work with children from birth to two years of age as well as children with special needs. Topics include growth and development, curriculum issues, guidance, exceptionalities and early intervention, creative experiences, safety, health and nutrition, and socialization. This career path does not lead to teacher certification for public school teachers.

Students can earn only one ECD degree in a single career path.

Accreditation

National Association for the Education of Young Children (NAEYC) Commission on the Accreditation of Early Childhood Higher Education Programs.
1401 H Street NW, Suite 600
Washington, DC 20005-4101
(800) 424-2460

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ECD 101 Introduction to Early Childhood 3
ECD 102 Growth and Development I 3
ECD 107 Exceptional Children 3
ECD 108 Family and Community Relations 3
ECD 131 Language Arts 3
ECD 132 Creative Experiences 3
or
EDU 205 Play and Early Learning 3
ECD 133 Science and Math Concepts 3
or
ECD 255 Activity Therapy for Early Childhood Special Education 3
ECD 135 Health, Safety and Nutrition 3
ECD 140 Early Childhood Practicum I 2
ECD 200 Curriculum Issues in Infant and Toddler Development 3
or
ECD 260 Methods of Teaching Special Needs Students 3
ECD 201 Principles of Ethics and Leadership in Early Care 3
ECD 203 Growth and Development II 3
ECD 205 Socialization and Group Care of Infants and Toddlers 3
or
ECD 259 Behavior Management for Special Needs 3
ECD 207 Inclusive Care for Infants and Toddlers 3
ECD 243 Supervised Field Experience I 3
ECD 246 Designing Quality Infant and Toddler Environments 3
or
ECD 254 Facilitation and Environmental Management for Early Childhood Special Education 3
EDU 241 Learners and Diversity 4

Total: 51

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: The Early Care and Education associate degree also requires the following additional requirements as prerequisites to labs in licensed child care centers and/or public schools: a health assessment denoting good heath, a negative tuberculosis skin test, compliance with technical standards and a clear criminal background check by the South Carolina Law Enforcement Division (SLED). In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering these laboratory and off-campus observation courses may opt to be

fingerprinted. Fingerprinting and a SLED background check are required for the Early Care and Education workforce.

2024-2025 TTC Catalog

Early Care and Education - School-Age and Youth Development

Associate in Applied Science in Early Care and Education

School-Age and Youth Development Career Path

Credit Requirements: 66 semester credit hours

The Early Care and Education program provides a solid foundation for graduates so that they may use developmentally appropriate, research-based and current knowledge in early care and education to build intentional teaching skills. Students gain quality intentional early learning experiences as well as understanding the responsibility of the professional in the field of early care and education. Students also construct a professional pedagogy that they will be able to use in the classroom with young children. In the process of developing their own pedagogy, students will create a disposition of collaboration that recognizes the diversity of families and the larger community. Off-campus observation and field experiences are provided in diverse settings that allow for quality practical and hands-on experiences. Upon successful completion of the program, each student will have the tools that will make them intentional teachers and caregivers.

The School-Age and Youth Development career path prepares students to work with school-age youth ages five to 17 years, in before- and/or after-school settings as well as faith-based youth development programs and summer camps. This career path does not lead to teacher certification for public school teachers.

Students can earn only one ECD degree in a single career path.

Accreditation

National Association for the Education of Young Children (NAEYC) Commission on the Accreditation of Early Childhood Higher Education Programs.
1401 H Street NW, Suite 600
Washington, DC 20005-4101
(800) 424-2460

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ECD 101 Introduction to Early Childhood 3
ECD 102 Growth and Development I 3
ECD 105 Guidance-Classroom Management 3
ECD 140 Early Childhood Practicum I 2
ECD 203 Growth and Development II 3
EDU 241 Learners and Diversity 4
SAC 101 Best Practices in School-Age and Youth Care Skills 3
SAC 200 Introduction to School-Age and Youth Care 3
SAC 201 Development of the School-Age Child and Youth 3
SAC 202 Administration of School-Age and Youth 3
SAC 203 Designing Model Environments for School-Age Child Care 3
SAC 204 Safety, Health and Nutrition for School-Age Children and Youth 3
SAC 205 Guiding Behavior, Violence Prevention and Classroom Management Strategies 3
SAC 206 Human Relationships for Children, Staff and Families 3
SAC 207 Science, Technology and Cultural Arts in School-Age and Youth Programs 3
SAC 208 Supervised Field Experience for School-Age and Youth Care 3
SAC 209 Introduction to Special Education for School-Age Children and Youth 3

Total: 51

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: The Early Care and Education associate degree also requires the following requirements as prerequisites to labs in licensed child care centers and/or public schools: a health assessment denoting good heath, a negative tuberculosis skin test, compliance with technical standards, and a clear criminal background check by the South Carolina Law Enforcement Division (SLED). In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering these laboratory and off-campus observation courses may opt to be fingerprinted. Fingerprinting and a SLED background check are required for the Early Care and Education workforce.

2024-2025 TTC Catalog

Early Childhood Development

Certificate in Applied Science

27 Credit Hours

The Early Childhood Development certificate program prepares students to work primarily in federally funded programs such as Head Start. This certificate also is designed for those currently employed who desire to make a career move and parents who want to learn more about the development of young children. Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test. Students who have transfer credits of C or better from an approved, regionally accredited postsecondary institution may not need to take the placement test. Program admission requires that students have a health assessment denoting good health, a negative tuberculosis skin test and compliance with technical standards. A clear criminal background check by the South Carolina Law Enforcement Division (SLED) also is required. In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering these laboratory courses may opt to be fingerprinted. Fingerprinting and a SLED background check are required for the early care and education workforce.

Major Requirements

ECD 101 Introduction to Early Childhood 3
ECD 102 Growth and Development I 3
ECD 105 Guidance-Classroom Management 3
ECD 107 Exceptional Children 3
ECD 131 Language Arts 3
ECD 132 Creative Experiences 3
ECD 133 Science and Math Concepts 3
ECD 135 Health, Safety and Nutrition 3
ECD 203 Growth and Development II 3

Total: 27

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Human Services

Associate in Applied Science in Human Services

60 Credit Hours

Human Services is an umbrella term covering a variety of professional activities that provide critical helping services to vulnerable populations and communities. Within the Human Services field, there is a need for highly skilled professionals to work with families, elders, people with disabilities, the unemployed, veterans and those dealing with substance abuse and others in need of services. Human Services professionals hold jobs in such diverse settings as group homes and halfway houses; correctional and community mental health centers; family, child and youth service agencies; and programs concerned with family violence and aging, and an array of organizations that support vulnerable populations across all communities. Depending on the employment setting and the types of clients served, the job titles and duties vary a great deal. The primary purpose of the human services worker is to assist individuals, families or communities to function as effectively as possible in the major domains of living.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

HUS 101 Introduction to Human Services 3
HUS 102 Personal and Professional Development in Helping Professions 3
HUS 116 Orientation to the Fieldwork Experience 2
HUS 208 Alcohol and Drug Abuse 3
HUS 209 Case Management 3
HUS 220 Diversity Issues in Human Services Practice 3
HUS 230 Interviewing Techniques 3
HUS 231 Counseling Techniques 3
HUS 235 Group Dynamics 3
HUS 250 Supervised Field Placement I 4
HUS 270 Personal and Professional Development II 3

Total: 33

Electives

Select from any college-level course in the current catalog. Courses labeled non-degree credit are not eligible.

Total: 12

Other Information

In order to graduate, students must complete a 150 hour field placement covering one semester. Assignments for the field placement exist in mental health, youth services, social services, eldercare, corrections, disabilities, rehabilitation, addiction, and other human services.

Students must meet the receiving field placement agency screening requirements, such as the South Carolina Law Enforcement Division (SLED) background check, prior to field placement assignment. Requirements will differ based on specific site policies.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Infant and Toddler Development

Certificate in Applied Science
21 Credit Hours

This certificate enhances the skills of infant and toddler child care professionals and also is open to those with no experience. This certificate is organized with standards from the National Association for the Education of Young Children (NAEYC). Professionals working with children birth through two years old are provided with adequate training related to experiences in growth and development; curriculum issues; guidance; exceptionality and early intervention; creative experiences; safety, health and nutrition; and socialization.

Major Requirements

ECD 101 Introduction to Early Childhood 3
ECD 102 Growth and Development I 3
ECD 200 Curriculum Issues in Infant and Toddler Development 3
ECD 205 Socialization and Group Care of Infants and Toddlers 3
ECD 207 Inclusive Care for Infants and Toddlers 3
ECD 243 Supervised Field Experience I 3
ECD 246 Designing Quality Infant and Toddler Environments 3

Total: 21

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Program admission requires that students have a health assessment denoting good health, a negative tuberculosis skin test, and compliance with technical standards. A clear criminal background check by the South Carolina Law Enforcement Division (SLED) is also required. In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering laboratory courses may opt to be fingerprinted. Fingerprinting and a SLED background check are required for the early care and education workforce.

2024-2025 TTC Catalog

Introductory University Studies

Certificate in Arts

12-13 Credit Hours

This program is designed for students in a one-semester transfer program who need to select general education courses to meet freshman requirements at their target college or university and for other students whose academic plans require only one semester of freshman-level coursework.

Required Courses

ENG 101 English Composition I 3
or
ENG 111 Advanced Freshman Composition 4
HIS 101 Western Civilization to 1689 3
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

Total: 12-13

The required courses listed are **examples**. Students will work with transfer advisors to select transfer courses from the following general education categories: communication, humanities, mathematics/natural sciences, and behavioral/social sciences.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Special Education

Certificate in Applied Science
29 Credit Hours

This certificate helps enhance the skills of special education paraeducators and is open to those with no experience. This certificate is organized with standards from the Council for Exceptional Children (CEC) and the National Association for the Education of Young Children (NAEYC). Paraeducators working with children from birth through age eight will be provided adequate training related to experiences in typical growth and development; curriculum issues; exceptionality and early intervention; communication systems; activity therapy; facilitation and environmental management for special education; counseling techniques; creative experiences; and safety, health and nutrition.

Major Requirements

ASL 101 American Sign Language I 4
ASL 102 American Sign Language II 4
ECD 107 Exceptional Children 3
ECD 207 Inclusive Care for Infants and Toddlers 3
ECD 243 Supervised Field Experience I 3
ECD 255 Activity Therapy for Early Childhood Special Education 3
ECD 256 Counseling Techniques for Early Childhood Special Education 3
ECD 259 Behavior Management for Special Needs 3
ECD 260 Methods of Teaching Special Needs Students 3

Total: 29

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Note: Program admission requires that students have a health assessment denoting good health, a negative tuberculosis skin test, and compliance with technical standards. A clear criminal background check by the South Carolina Law Enforcement Division (SLED) is also required. In addition to SLED background checks, some child development centers and schools may require fingerprinting. Students entering these laboratory courses may opt to be fingerprinted. Fingerprinting and a SLED background check are required for the early care and education workforce.

2024-2025 TTC Catalog

University Studies

24-25 Credit Hours

This program is designed for students who plan to transfer to a four-year college or university upon completion of one year of transferable coursework.

ENG 101 English Composition I 3
or
ENG 111 Advanced Freshman Composition 4
ENG 102 English Composition II 3
HIS 101 Western Civilization to 1689 3
HIS 102 Western Civilization Post 1689 3
MAT 110 College Algebra 3
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3
PSY 203 Human Growth and Development 3

Total: 24-25

The required courses listed are **examples**. Students will work with faculty advisors to select transfer courses from the following general education categories: communication, humanities, mathematics/natural sciences, and behavioral/social sciences.

2024-2025 TTC Catalog - Law Related Studies

The Division of Law Related Studies offers students the education needed to enter the criminal justice, homeland security and paralegal professions. For example, the Criminal Justice associate degree program is for students who desire to begin careers in law enforcement, upgrade their skills or transfer to a four-year institution to obtain a bachelor's degree in criminal justice, criminology or sociology. The division also offers Police Pre-Academy Training to prepare students for entrance into the S.C. Criminal Justice Academy. TTC's Paralegal associate degree and related certificate programs are designed for students who want careers as paralegals. The Homeland Security Management associate degree prepares students for jobs in Homeland Security and provides information and a depth of understanding in security that will be useful in many career opportunities.

Associate Degree

Criminal Justice

Emergency Medical Technology

Homeland Security Management

Paralegal

Certificate

Advanced Emergency Medical Technician

Emergency Medical Technician

Paralegal Certificate

Paramedic

Police Pre-Academy Training

2024-2025 TTC Catalog

Advanced Emergency Medical Technician

Certificate in Applied Science
12 Credit Hours

This certificate is designed for students who want to expand their knowledge and skills in pre-hospital medicine in the professions of EMS or the fire services.
Upon successful completion of the program , the student is eligible to attempt the applicable psychomotor evaluation and cognitive testing for the National Registry of Emergency Medical Technicians (NREMT).

Accreditation
Commission on Accreditation of Allied Health Education Programs
9355 – 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org

Commission on Accreditation of Educational Programs for the Emergency Medical Services Programs
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
Phone: 241.703.8445
Fax: 214.703.8992
www.coaemsp.org

Major Requirements

BIO 211 Anatomy and Physiology II 4
EMS 107 Advanced Emergency Care I 2
EMS 108 Advanced Emergency Care II 3
EMS 115 International Trauma Life Support 1
EMS 219 Advanced EMS Field Internship II 2

Total: 12

Applicants will be admitted to the Emergency Medical Technician Certificate on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year and term that they have been admitted.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE ADVANCED EMERGENCY MEDICAL TECHNICIAN PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application.**
2. Complete MAT 101 Beginning Algebra or higher with a minimum grade of C (or achieve qualifying equivalent math placement).
3. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. Submit proof of attendance of a mandatory advising session with full-time EMT faculty.
5. Provide proof of CPR, completion of Emergency Medical Technician Certificate program within the past year with scheduled practical and cognitive test dates, or be a current certified Emergency Medical Technician, minimum National Registry and State of South Carolina.
6. Submit a statement of completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Emergency Medical Technology Program

Students will be required to provide a complete, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the AEMT certificate.

Course Progression

To progress to the next EMT course, the student must achieve a grade of C or better in all courses required for the program.

2024-2025 TTC Catalog

Criminal Justice

Associate in Applied Science in Criminal Justice
60 Credit Hours

The Criminal Justice associate degree prepares students for entry-level positions in law enforcement agencies as police officers and civilian support staff; in corrections and detention facilities as corrections officers and jailers; in prosecutors' offices and criminal defense firms as investigators, clerks, and support staff; in private security agencies as security officers and investigators; and in homeland and corporate security departments as investigators, risk analysis officers, and loss prevention and emergency planners where a degree is required. The degree also positions employees for pay raises and promotion eligibility. Some courses offered in the training curriculum at the S.C. Criminal justice Academy may be eligible for credit toward the Criminal Justice associate degree at TTC. Courses taken at TTC may be transferrable to the S.C. Criminal Justice Academy for recertification credit for certified police and detention officers. The program has a 2+2 agreement with The Citadel; some credit may transfer to other public and private colleges as well.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

CRJ 101 Introduction to Criminal Justice 3
CRJ 115 Criminal Law I 3
CRJ 125 Criminology 3
CRJ 126 Criminal Justice Research Methods 3
CRJ 130 Police Administration 3
CRJ 220 The Judicial Process 3
or
BUS 121 Business Law I 3
CRJ 222 Ethics in Criminal Justice 3

CRJ 230 Criminal Investigation I 3
CRJ 236 Criminal Evidence 3
CRJ 242 Correctional Systems 3
ENG 102 English Composition II 3

Total: 33

Criminal Justice Electives

Select four courses from the list below. At least two courses must have CRJ prefix.

CRJ 110 Police Patrol 3
CRJ 120 Constitutional Law 3
CRJ 202 Criminalistics 3
CRJ 224 Police Community Relations 3
CRJ 232 White Collar Crime Investigation 3
CRJ 233 Cyber Crimes and the Law 3
CRJ 235 Practical Crime Scene Investigations 3
CRJ 243 Criminal Profiling 3
CRJ 244 Probation, Pardon and Parole 3
CRJ 246 Special Problems in Criminal Justice 3
CRJ 250 Criminal Justice Internship I 3
HSM 104 Terrorism and Homeland Security 3
HSM 202 Transportation and Border Security 3
HSM 203 Intelligence Analysis and Security Management 3
CWE 113 Cooperative Work Experience 3
CWE 123 Cooperative Work Experience 3

Any additional three-hour college-level course from the Catalog except ENG 150, COL 103 and courses labeled nondegree credit in the course description can be used as a criminal justice general elective.

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Emergency Medical Technician

Certificate in Applied Science
11 Credit Hours

This certificate is designed for students who want to begin their careers in EMS or expand their skills in the fire services.
Upon successful completion of the program, the student is eligible to attempt the applicable psychomotor evaluation and cognitive testing for the National Registry of Emergency Medical Technicians (NREMT).

Accreditation

Commission on Accreditation of Allied Health Education Programs
9355 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org
Commission on Accreditation of Educational Programs for the Emergency Medical Services Programs
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
Phone: 241.703.8445 Fax: 214.703.8992
www.coaemsp.org

Major Requirements

BIO 210 Anatomy and Physiology I 4
EMS 102 Principles of Emergency Medical Care I 2
EMS 103 Principles of Emergency Medical Care II 3
EMS 212 EMS Field Internship 2

Total: 11

Applicants will be admitted to the Emergency Medical Technician Certificate on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year and term that they have been admitted.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE EMERGENCY MEDICAL TECHNICIAN PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete MAT 101 Beginning Algebra or higher with a minimum grade of C (or achieve qualifying equivalent math placement).
3. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. Submit proof of attendance of a mandatory advising session with full-time EMT faculty.
5. Submit an Observation Form to HealthSciencesAdmissions@tridenttech.edu documenting a **minimum of twelve hours of observation** work of an EMT-Paramedic employed by an emergency service agency. The applicant is responsible for arranging the observation experience. Forms can be found on the TTC EMT webpage.
6. Submit a Statement of Completion form found online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Emergency Medical Technician Certificate

Students will be required to provide a complete, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the EMT certificate.

Course Progression

To progress to the next EMT course, the student must achieve a grade of C or better in all courses required for the program.

2024-2025 TTC Catalog

Emergency Medical Technology

Associate in Applied Science in Emergency Medical Technology

70 Credit Hours

The Emergency Medical Technology program prepares students to practice in the complex and dynamic profession of the EMT. The curriculum is structured to allow the beginning student to test and practice as a basic or intermediate EMT while continuing in the advanced program. Internship and clinical experiences strengthen learned material and prepare the student for the reality of practice.

Accreditation

Commission on Accreditation of Allied Health Education Programs
9355 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org
Commission on Accreditation of Educational Programs for the Emergency Medical Services Programs
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
Phone: 241.703.8445 Fax: 214.703.8992
www.coaemsp.org

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
EMS 102 Principles of Emergency Medical Care I 2
EMS 103 Principles of Emergency Medical Care II 3
EMS 107 Advanced Emergency Care I 2
EMS 108 Advanced Emergency Care II 3
EMS 115 International Trauma Life Support 1
EMS 116 Advanced Cardiac Life Support 1
EMS 117 Pediatric Advanced Life Support 1

EMS 120 Pharmacology 3
EMS 211 Advanced Clinical Experience I 3
EMS 212 EMS Field Internship 2
EMS 214 Advanced Clinical Experience II 3
EMS 217 Introduction to Electrocardiography 2
EMS 219 Advanced EMS Field Internship II 2
EMS 220 Paramedic Internship I 3
EMS 221 Paramedic Internship II 3
EMS 222 Paramedic Internship III 3
EMS 233 Paramedic Emergency Medical Care I 2
EMS 234 Paramedic Emergency Medical Care II 3
EMS 235 Paramedic Emergency Medical Care III 2
EMS 236 Paramedic Emergency Medical Care IV 3

Total: 55

Applicants will be admitted to the Emergency Medical Technology program on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year and term that they have been admitted.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE EMERGENCY MEDICAL TECHNOLOGY PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete MAT 101 Beginning Algebra or higher with a minimum grade of C (or achieve a qualifying equivalent math placement).
3. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. Submit proof of attendance of a mandatory advising session with full-time EMT faculty
5. Submit an Observation Form to HealthSciencesAdmissions@tridenttech.edu documenting a minimum of twelve hours of observation work of an EMT-Paramedic employed by an emergency service agency. The applicant is responsible for arranging the observation experience. Forms can be found on the TTC EMT webpage.
6. Submit a Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Emergency Medical Technology Program

1. Students will be notified by my.tridenttech.edu email the date and time of the mandatory program orientation. Failure to attend will result in forfeiture of seat in the program
2. Students will be required to provide a completed, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.

Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the Emergency Medical Technology program.

Course Progression

To progress to the next EMT term/semester, the student must achieve a grade of C or better in all courses required for the program.

2024-2025 TTC Catalog

Homeland Security Management

Associate in Applied Science in Homeland Security Management
60 Credit Hours

Homeland Security is about protecting people, property and infrastructure while minimizing economic impacts of natural and man-made crises.The Homeland Security associate in applied science prepares students for an education in homeland security through the development of the knowledge, skills and abilities needed for leadership in homeland security including international and domestic terrorism, infrastructure protection, strategic planning for security, international relations, intelligence operations and evaluation and program management. These disciplines include but are not limited to police, fire, emergency medical, public health and emergency management. These positions can include but are not limited to the following: transportation security officer, mission support specialist, information technology specialist, border patrol agent, program analyst, contract specialist, supervisory transportation officer, security officer screener, program analyst, human resources specialist and lead transportation security officer screener.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
PSC 201 American Government 3
or
PSC 215 State and Local Government 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3

Total: 15

Major Requirements

CRJ 120 Constitutional Law 3
CRJ 126 Criminal Justice Research Methods 3
CRJ 222 Ethics in Criminal Justice 3
ENG 102 English Composition II 3
HSM 101 Introduction to Homeland Security 3
HSM 103 Introduction to Emergency Management 3
HSM 104 Terrorism and Homeland Security 3
HSM 201 Critical Incident Management 3
HSM 202 Transportation and Border Security 3
HSM 203 Intelligence Analysis and Security Management 3

HSM 204 Terrorism and Weapons of Mass Destruction 3
HSM 205 Public Health Emergency Preparedness 3
HSM 206 Critical Infrastructure Protection 3

Total: 39

Electives

Select two courses from any additional CRJ, EMT or Fire Service track.

Total: 6

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Paralegal Certificate

Certificate in Applied Science
39 Credit Hours

The Paralegal certificate program prepares students to work under the direct supervision of an attorney to prepare legal documents, recommend solutions for procedural problems, and create and implement detailed office procedures for the efficient handling of specialized fields of law. It is an excellent first step for students whose ultimate goal is law school, especially if they want to work in the field first. Also, to be successful in this field, students should possess strong communication and computer/word processing skills.

This program is approved by the American Bar Association (ABA) and is an institutional member of the American Association for Paralegal Education (AAFPE). In accordance with ABA Guideline G-302.J.3, students must complete at least 9 credit hours or equivalent of legal specialty courses through synchronous instruction.

Accreditation

American Bar Association
Standing Committee on Paralegals
321 N. Clark St.
Chicago, IL 60654

Major Requirements

BUS 121 Business Law I 3
LEG 120 Torts 3
LEG 132 Legal Bibliography 3
LEG 135 Introduction to Law and Ethics 3
LEG 201 Civil Litigation I 3
LEG 213 Family Law 3
LEG 214 Property Law 3
LEG 230 Legal Writing 3
LEG 232 Law Office Management 3
LEG 233 Wills, Trusts and Probate 3
LEG 234 Title Examination Procedures I 3
or
CRJ 115 Criminal Law I 3
LEG 240 Claims Investigation 3
LEG 242 Law Practice Workshop 3

*Students may elect to take either CRJ 115 Criminal Law or LEG 234 Title Examination Procedures. However, LEG 234 Title Examination Procedures is offered only in Spring Semester. Students are not required to take both LEG 234 and CRJ 115 and should discuss this choice with their advisors.

Total: 39

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE PARALEGAL CERTIFICATE PROGRAM MUST HAVE COMPLETED THE FOLLOWING:

1. 27 semester hours of college credit at a C or better from an approved, accredited postsecondary institution of which 18 hours must be general education courses spread across three disciplines with six of those 18 hours being comprised of ENG 101 and SPC 205 or SPC 209, **or**
2. Associate of Arts or Associate of Science Degree or higher from an approved, accredited postsecondary institution.

Program Goals

1. Provide a well-rounded program of education for students who wish to seek employment as paralegals in a variety of settings.
2. Provide students with the knowledge, skills and understanding of legal ethics necessary to work under the supervision of attorneys to assist in the delivery of legal services.

Program Objectives

1. Prepare students to apply principles of legal ethics
2. Prepare students to draft legal documents
3. Prepare students to perform legal research
4. Prepare students to enter legal profession as entry level paralegals

UNAUTHORIZED PRACTICE OF LAW (UPL) STATEMENT

S.C. Code Ann. § 40-5-310

Paralegals work under the supervision of a licensed attorney and are not authorized to practice law in South Carolina.

2024-2025 TTC Catalog

Paralegal Degree

Associate in Applied Science in Paralegal

63 Credit Hours

The Paralegal associate degree program prepares students to work under the direct supervision of an attorney to prepare legal documents, recommend solutions for procedural problems, and create and implement detailed office procedures for the efficient handling of specialized fields of law. It is also an excellent first step for students whose ultimate goal is law school, especially for those who want to work in the field first. TTC also offers a certificate program for students who already have some college credit.

This program is approved by the American Bar Association (ABA) and is an institutional member of the American Association for Paralegal Education (AAFPE). In accordance with ABA Guideline G-302.J.3, students must complete at least 9 credit hours or equivalent of legal specialty courses through synchronous instruction.

Accreditation

American Bar Association
Standing Committee on Paralegals
321 N. Clark St.
Chicago, IL 60654

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
or
MAT 155 Contemporary Mathematics 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

BUS 121 Business Law I 3
CRJ 101 Introduction to Criminal Justice 3
or

LEG 270 Paralegal Certification Preparation 3
or
LEG 244 Special Projects for Paralegals 3
CRJ 115 Criminal Law I 3
or
LEG 234 Title Examination Procedures I 3
ENG 102 English Composition II 3
LEG 120 Torts 3
LEG 132 Legal Bibliography 3
LEG 135 Introduction to Law and Ethics 3
LEG 201 Civil Litigation I 3
LEG 213 Family Law 3
LEG 214 Property Law 3
LEG 230 Legal Writing 3
LEG 232 Law Office Management 3
LEG 233 Wills, Trusts and Probate 3
LEG 240 Claims Investigation 3
LEG 242 Law Practice Workshop 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

Total: 48

Program Goals

1. Provide a well-rounded program of education for students who wish to seek employment as paralegals in a variety of settings.
2. Provide students with the knowledge, skills and understanding of legal ethics necessary to work under the supervision of attorneys to assist in the delivery of legal services.

Program Objectives

1. Prepare students to apply principles of legal ethics
2. Prepare students to draft legal documents
3. Prepare students to perform legal research
4. Prepare students to enter legal profession as entry level paralegals

UNAUTHORIZED PRACTICE OF LAW (UPL) STATEMENT

S.C. Code Ann. § 40-5-310

Paralegals work under the supervision of a licensed attorney and are not authorized to practice law in South Carolina.

Students transferring credits into the Paralegal programs may transfer only four courses from ABA-approved Paralegal programs for LEG-prefix course credit.

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying placement levels.

2024-2025 TTC Catalog

Paramedic

Certificate in Applied Science
32 Credit Hours

This certificate is designed for students who want to expand their knowledge and skills in pre-hospital medicine in the professions of EMS or the fire services.

Upon successful completion of the program, the student is eligible to attempt the applicable psychomotor evaluation and cognitive testing for the National Registry of Emergency Medical Technicians (NREMT).

Accreditation

Commission on Accreditation of Allied Health Education Programs
9355 113th St. N, #7709
Seminole, FL 33775
727.210.2350
www.caahep.org
Commission on Accreditation of Educational Programs for the Emergency Medical Services Programs
8301 Lakeview Parkway, Suite 111-312
Rowlett, TX 75088
Phone: 241.703.8445 Fax: 214.703.8992
www.coaemsp.org

Major Requirements

EMS 116 Advanced Cardiac Life Support 1
EMS 117 Pediatric Advanced Life Support 1
EMS 120 Pharmacology 3
EMS 211 Advanced Clinical Experience I 3
EMS 214 Advanced Clinical Experience II 3
EMS 217 Introduction to Electrocardiography 2
EMS 220 Paramedic Internship I 3
EMS 221 Paramedic Internship II 3
EMS 222 Paramedic Internship III 3
EMS 233 Paramedic Emergency Medical Care I 2
EMS 234 Paramedic Emergency Medical Care II 3
EMS 235 Paramedic Emergency Medical Care III 2
EMS 236 Paramedic Emergency Medical Care IV 3

Total: 32

Applicants will be admitted to the Paramedic Certificate on a first-qualified, first-admitted basis. Applicants are considered to be qualified for admission to the next available

class when they meet all college and program requirements. Qualified applicants will be notified via my.tridenttech.edu email indicating the year and term that they have been admitted.

In addition to meeting the college's general admission requirements, including submission of official high school and college transcripts, APPLICANTS TO THE PARAMEDIC PROGRAM MUST COMPLETE ALL OF THE FOLLOWING REQUIREMENTS:

1. Complete the **Health Sciences Application**.
2. Complete MAT 101 Beginning Algebra or higher with a minimum grade of C (or achieve qualifying equivalent math placement).
3. Achieve a minimum cumulative 2.0 GPA at the time of acceptance and at date of entry into the program based on classes taken within five years of acceptance into the program.
4. Submit proof of attendance of a mandatory advising session with full-time EMT faculty.
5. Provide proof of CPR, completion of Advanced Emergency Medical Technician Certificate program within the past year with scheduled practical and cognitive test dates, or be a current certified Advanced Emergency Medical Technician, minimum National Registry and State of South Carolina.
6. Submit the Statement of Completion form online. The link to the form can be found on the Health Sciences webpage.

General Admission Procedures for the Emergency Medical Technology Program

Students will be required to provide a complete, current Health Sciences – Student Health Record including all immunizations and titers, TB (PPD) tests, as well as current Healthcare Provider CPR certification, major medical insurance and medical professional liability coverage.
Note: Falsification of any information submitted will make a student ineligible for admission to or continuation in the paramedic certificate.

Course Progression

To progress to the next EMT term/semester, the student must achieve a grade of C or better in all courses required for the program.

2024-2025 TTC Catalog

Police Pre-Academy Training

The Police Pre-Academy Training (PPAT) certification is for individuals who seek to become employed as a law enforcement officer in South Carolina and become Class-1 Certified Law Enforcement Officers (LEO) through the South Carolina Criminal Justice Academy (SCCJA) and the Law Enforcement Training Council (LETC) pursuant to South Carolina Code of Laws Chapter 23.

Major Requirements

CRJ 281 Police Science I 3
CRJ 282 Police Science II 3
CRJ 283 Police Science III 3
CRJ 284 Police Science IV 3

Total: 12

Admission Requirements*

Entry into the program requires the following:

1. Must be a U.S. Citizen.
2. Must be a high school graduate or have an equivalency.
3. Must successfully pass a criminal background check.
4. Must be at least 20 years of age to enter program.

*Individual does not have to be currently employed with a law enforcement agency to enter the PPAT program but will have to become employed with a SC Law Enforcement Agency prior to attending the 8-week academy program in Columbia. The individual does not have to be 21 years old to enter the program but should not be more than a year away from turning 21 when entering the program. Agencies will still have the option to hire someone and put them through their own pre-academy certification process incurring their own time and costs, if they choose.

2024-2025 TTC Catalog - Manufacturing and Maintenance

TTC’s Division of Manufacturing and Maintenance provides programs addressing the needs of the advanced manufacturing and the building and automotive maintenance industries. Also, the division satisfies the need for trained aerospace workers in the fields of aircraft maintenance, aircraft avionics and aircraft manufacturing.

Not only are jobs in these sectors considered high demand, they are also high wage positions. Associate degrees and certificates are offered in the areas of Automotive technology, Machine Tool technology, Industrial Maintenance, Welding technology and Air Conditioning and Refrigeration Mechanics. Students interested in any of the division’s programs should enjoy learning how machines operate and creating components from drawings, and should have a curious and logical mind. Students will learn from experienced professionals in an industrial environment where hands-on skill development and safety are emphasized.

The Aircraft Maintenance programs are designed to lead toward Federal Aviation Administration (FAA) licensing or certification for airframe and powerplant while the Avionics Maintenance program is designed to lead toward Federal Communications Commission (FCC) and National Center for Aerospace and Transportation Technologies (NCATT) certification. Both programs offer either an associate degree or certificates that will lead toward certification by their respective certifying agencies. Classes for the Aircraft Assembly program are offered as a two-semester certificate program. Students may enter any program at the start of any semester upon approval of an academic advisor.

Associate Degree

Aircraft Maintenance Technology

General Technology - Air Conditioning and Refrigeration Mechanics

General Technology - Automotive Technology

General Technology - Avionics Maintenance Technology

General Technology - Industrial Maintenance

General Technology - Machine Tool Technology

General Technology - Marine Engineering Technology

General Technology - Welding

Certificate

3D Printing Additive Manufacturing

Advanced Air Conditioning and Refrigeration Mechanics

Advanced CNC Operations

Air Conditioning - Refrigeration Mechanics

Aircraft Assembly Technology

Aircraft Maintenance Airframe

Aircraft Maintenance General

Aircraft Maintenance Powerplant

Automotive Servicing

Avionics Maintenance Technology

Basic CNC Operations

Basic Industrial Work Skills

Commercial and Industrial ACR Systems

Commercial Truck Driving

Computer Numeric Control Machinist

Facilities Maintenance

Gas Metal Arc Welding Fundamentals

Industrial Mechanic

Introduction to Arc Welding

Technology Core

Welding Gas Metal Arc and Flux Cored Arc

Welding Gas Tungsten Arc

Welding Shielded Metal Arc

2024-2025 TTC Catalog

3D Printing Additive Manufacturing

Certificate in Applied Science

12 Credit Hours

This certificate prepares students for entry-level employment in the machinist operations career field. This program teaches the fundamental skills needed to operate and set up printers through classroom theory and hands-on laboratory instruction.

Major Requirements

CPT 114 Computers and Programming 3
MTT 114 3D Printing Theory and Operations 4
MTT 120 Machine Tool Print Reading 3
MTT 143 Precision Measurements 2

Total: 12

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Advanced Air Conditioning and Refrigeration Mechanics Program

Certificate in Applied Science
14 Credit Hours

The Advanced ACR certificate prepares students for employment in the field of commercial refrigeration and commercial HVAC maintenance. Through classroom theory and hands on learning, students will gain skills required to install, maintain and repair commercial refrigeration equipment and perform maintenance and repair of commercial air conditioning equipment.

Major Requirements

ACR 131 Commercial Refrigeration 4
CPT 174 Microcomputer Spreadsheets 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4

Total: 14

Admission Requirements

Admission requires completion of ACR 106, 108, and 109. Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Advanced CNC Operations

Certificate in Applied Science

13 Credit Hours

This certificate prepares students for employment in the CNC machine programming career field. Graduates gain the skills needed to program solid models and set-up multi-axis machines through classroom theory and hands-on laboratory instruction.

Major Requirements

MTT 243 Advanced Dimensional Metrology for Machinists 3
MTT 255 CNC Programming II 3
MTT 258 CNC Machine Tool Cam 3
MTT 260 Advanced Multi-Axis Programming and Ops I 4

Total: 13

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Air Conditioning - Refrigeration Mechanics

Certificate in Applied Science
24 Credit Hours

The Air Conditioning and Refrigeration Mechanics program prepares students for an entry- level position in the residential and light commercial heating and air conditioning field.

Major Requirements

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
ACR 111 Gas Heating Principles 3
ACR 120 Basic Air Conditioning 4
ACR 150 Basic Sheet Metal 2
ACR 210 Heat Pumps 4
ACR 224 Codes and Ordinances 2

Total: 24

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Aircraft Assembly Technology

Certificate in Applied Science
26 Credit Hours

This program prepares students for employment in the aviation manufacturing field by providing instruction in the basic theory of aircraft design and construction, aircraft materials and tools utilized in aircraft assembly.

Major Requirements

AMF 103 Introduction to Aviation 3
AMF 104 Basic Aviation Sciences 3
AMF 109 Aircraft Materials and Hand Tools 3
AMF 110 Corrosion Control and Sealing Applications 2
AMF 116 Aircraft Fluid Lines 2
AMF 132 Aircraft Sheet Metal Assembly 3
AMF 137 Aircraft Composite Structures 3
AMF 142 Airframe Auxiliary Systems 2
AMF 147 Aviation Electrical Systems 3
AMF 152 Aircraft Flight Control Systems 2

Total: 26

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying placement levels.

2024-2025 TTC Catalog

Aircraft Maintenance Airframe

Certificate in Applied Science
29 Credit Hours

This certificate, along with the General and Powerplant certificates, prepares the student to sit for the certification exams required by the Federal Aviation Administration to become certified airframe and powerplant maintenance technicians. Students are prepared for employment repairing aircraft, engines and related systems with airlines, government agencies, aircraft manufacturers and aircraft service companies.

Major Requirements

ACM 125 Wood Structures, Coverings and Finishes 2
ACM 135 Sheet Metal and Non-metallic Structures 4
ACM 145 Aircraft Welding 2
ACM 150 Assembly and Rigging 3
ACM 155 Aircraft Environmental Systems 3
ACM 160 Utility and Warning Systems 3
ACM 165 Hydraulic and Pneumatic Systems 3
ACM 167 Landing Gear Systems 3
ACM 170 Aircraft Electrical Systems 4
ACM 172 Aircraft Fuel Systems 1
ACM 174 Airframe Inspection 1

Total: 29

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Aircraft Maintenance General

Certificate in Applied Science
18 Credit Hours

This certificate, along with the Airframe and Powerplant certificates, prepares the student to sit for the certification exams required by the Federal Aviation Administration to become certified airframe and powerplant maintenance technicians. Students are prepared for employment repairing aircraft, engines and related systems with airlines, government agencies, aircraft manufacturers and aircraft service companies.

Major Requirements

ACM 101 General Regulations 2
ACM 102 Aviation Sciences 3
ACM 105 Basic Aircraft Electricity 4
ACM 110 Aircraft Drawings 1
ACM 114 Fluid Lines and Fittings 1
ACM 115 Ground Handling and Servicing 3
ACM 120 Materials and Corrosion Control 4

Total: 18

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Aircraft Maintenance Powerplant

Certificate in Applied Science
30 Credit Hours

This certificate, along with the General and Airframe certificates, prepares the student to sit for the certification exams required by the Federal Aviation Administration to become certified airframe and powerplant maintenance technicians. Students are prepared for employment repairing aircraft, engines and related systems with airlines, government agencies, aircraft manufacturers and aircraft service companies.

Major Requirements

ACM 201 Lubricating Systems 2
ACM 205 Ignition and Starting Systems 3
ACM 210 Reciprocating Engine Overhaul 4
ACM 212 Engine Installation 3
ACM 220 Turbine Engines 3
ACM 226 Engine Inspection 1
ACM 234 Propellers and Components 4
ACM 240 Engine Electrical Instrumentation and Fire Protection 3
ACM 245 Powerplant Fuel Systems 4
ACM 250 Induction Cooling and Exhaust 3

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Aircraft Maintenance Technology

Associate in Applied Science in Aircraft Maintenance Technology

92 Credit Hours

The Aircraft Maintenance Technology program prepares students to sit for the certification exam of the Federal Aviation Administration as airframe and/or powerplant technicians. Students also are prepared for employment repairing aircraft, engines and related systems with airlines, government agencies, aircraft manufacturers and aircraft service companies. Opportunities for career advancement include lead technician, authorized inspector, shop supervisor, maintenance director or business owner. The program is licensed by the Federal Aviation Administration.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Major Requirements

ACM 101 General Regulations 2
ACM 102 Aviation Sciences 3
ACM 105 Basic Aircraft Electricity 4
ACM 110 Aircraft Drawings 1
ACM 114 Fluid Lines and Fittings 1
ACM 115 Ground Handling and Servicing 3
ACM 120 Materials and Corrosion Control 4
ACM 125 Wood Structures, Coverings and Finishes 2
ACM 135 Sheet Metal and Non-metallic Structures 4
ACM 145 Aircraft Welding 2
ACM 150 Assembly and Rigging 3
ACM 155 Aircraft Environmental Systems 3
ACM 160 Utility and Warning Systems 3
ACM 165 Hydraulic and Pneumatic Systems 3
ACM 167 Landing Gear Systems 3

ACM 170 Aircraft Electrical Systems 4
ACM 172 Aircraft Fuel Systems 1
ACM 174 Airframe Inspection 1
ACM 201 Lubricating Systems 2
ACM 205 Ignition and Starting Systems 3
ACM 210 Reciprocating Engine Overhaul 4
ACM 212 Engine Installation 3
ACM 220 Turbine Engines 3
ACM 226 Engine Inspection 1
ACM 234 Propellers and Components 4
ACM 240 Engine Electrical Instrumentation and Fire Protection 3
ACM 245 Powerplant Fuel Systems 4
ACM 250 Induction Cooling and Exhaust 3

Total: 77

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Automotive Servicing

Certificate in Applied Science
36 Credit Hours

The Automotive Servicing program prepares students for employment in the automotive servicing industry. This program teaches the basic skills required for the diagnosis, maintenance and repair of passenger cars and light trucks through theory and shop instruction.

Major Requirements

AUT 103 Engine Reconditioning 4
AUT 111 Brakes 3
AUT 116 Manual Transmission and Axle 4
AUT 122 Suspension and Alignment 4
AUT 131 Electrical Systems 3
AUT 133 Electrical Fundamentals 3
AUT 149 Ignition and Fuel Systems 4
AUT 152 Automatic Transmission 4
AUT 159 Tools, Equipment and Reference Manuals 3
AUT 241 Automotive Air Conditioning 4

Total: 36

Admission Requirements

Admission into this program requires a valid driver’s license and qualifying scores on SAT, ACT or TTC’s placement test. High school graduation is not required if you are at least 18 years old.

2024-2025 TTC Catalog

Avionics Maintenance Technology

Certificate in Applied Science
40 Credit Hours

This certificate prepares the student to sit for the certification exams required by the Federal Communications Commission (FCC) and National Center for Aerospace and Transportation Technologies (NCATT) to become certified avionics maintenance technicians. Students will gain the skills needed to exceed employer expectations.

Instruction includes installation, maintenance, troubleshooting and calibration of systems related to navigation, communication, power generation and other critical electrical, electronic and ancillary systems required to keep aircraft flying safely.

Major Requirements

AVT 101 Basic Electricity for Avionics 4
AVT 105 Aircraft Electricity for Avionics 4
AVT 110 Aircraft Electronic Circuits 4
AVT 115 Aircraft Digital Circuits 3
AVT 120 Aviation Electronic Communications 4
AVT 125 Aviation Data Communications 3
AVT 140 Avionics Standard Practices 3
AVT 145 Avionics Circuit Repair 3
AVT 150 Aircraft Navigation Systems 3
AVT 155 Aircraft Pulse Systems 3
AVT 160 Aircraft Radar Systems 3
AVT 165 Avionics General Regulations 2
AVT 170 Avionics Program and Test Review 1

Total: 40

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Basic CNC Operations

Certificate in Applied Science

14 Credit Hours

The Basic CNC Operations certificate program prepares students for entry-level employment in the CNC machine operations career field. This program teaches the fundamental skills needed to operate and set up through classroom theory and hands-on laboratory instruction.

Major Requirements

IET 223 Industrial Safety 3
MTT 111 Machine Tool Theory and Practice I 5
MTT 120 Machine Tool Print Reading 3
MTT 250 Principles of CNC 3

Total: 14

Admission to this program requires qualifying scores on SAT, ACT or appropriate placement. High school graduation is not required if you are at least 18 years old.

2024-2025 TTC Catalog

Basic Industrial Work Skills

Certificate in Applied Science
25 Credit Hours

This certificate is designed to offer employability skills for the industrial environment and prepare the student for various entry-level positions at industrial and manufacturing work sites. Topics such as safety, communication, problem solving and computer use are introduced.

Major Requirements

IDS 109 First Year Experience Seminar 3
IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
IMT 115 Industrial Schematics 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4
MTT 120 Machine Tool Print Reading 3
QAT 110 Manufacturing Methods 3

Total: 25

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Commercial and Industrial ACR Systems

Certificate in Applied Science

36 Credit Hours

This certificate prepares students for employment in the field of commercial refrigeration, commercial and industrial HVAC maintenance, diagnostics, and repair. Through classroom theory and hands on learning, students will gain skills required to install, maintain and repair commercial refrigeration equipment, and perform maintenance and repair of commercial and industrial air conditioning equipment.

Major Requirement

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
ACR 131 Commercial Refrigeration 4
EEM 221 DC AC Drives 3
EEM 251 Programmable Controllers 3
IMT 140 Industrial Electricity 5
IMT 151 Piping Systems 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4

and

a minimum of two credit hours in an IMT course with faculty advisor approval.

Total: 36

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Commercial Truck Driving

Certificate in Applied Science

16 Credit hours

This certificate provides the training necessary to prepare to obtain a Class A CDL for the purpose of entering the field of professional truck driving.

Major Requirements

TDR 101 Introduction to Truck Driver Training 5
TDR 102 Fundamentals of Truck Driver Training 4
TDR 103 Preparation for CDL Examination 3
TDR 104 Electronic Logging 1
TDR 105 The Business of Truck Driving 3

Total: 16

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED. Students must hold a valid SC driver’s license, be able to pass a DOT physical and drug screen, and not have any CDL disqualifying violations. South Carolina CDL skills testing will be administered by a South Carolina Department of Motor Vehicle (SCDMV) examiner or by TTC’s state certified CDL examiner at the Berkeley Campus.

2024-2025 TTC Catalog

Computer Numeric Control Machinist

Certificate in Applied Science
32 Credit Hours

This program introduces students to workplace safety, blueprint reading, precision measuring, basic conventional machining and CNC operations including set-up and programming. Students are prepared for entry-level employment in the metal- working industry.

Major Requirements

IET 223 Industrial Safety 3
MTT 101 Introduction to Machine Tool 2
MTT 111 Machine Tool Theory and Practice I 5
MTT 112 Machine Tool Theory and Practice II 5
MTT 120 Machine Tool Print Reading 3
MTT 143 Precision Measurements 2
MTT 175 Innovations in Machining Technology 3
MTT 250 Principles of CNC 3
MTT 251 CNC Operations 3
MTT 253 CNC Programming and Operations 3

Total: 32

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Facilities Maintenance

Certificate in Applied Science
39 Credit Hours

The Facilities Maintenance program prepares students for entry-level employment in the facilities maintenance career field. This program teaches the fundamental skills needed to maintain commercial and industrial buildings through classroom theory and hands-on laboratory instruction.

Major Requirements

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
EEM 167 Commercial-Industrial Wiring I 2
EEM 173 Electrical Installation I 2
EEM 174 Electrical Installation II 2
IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
IMT 115 Industrial Schematics 3
IMT 127 Industrial Pumps 3
IMT 151 Piping Systems 3
IMT 160 Preventive Maintenance 3
or
CWE 113 Cooperative Work Experience 3
IMT 161 Mechanical Power Applications 4
MTT 143 Precision Measurements 2

Total: 39

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

FST 001 Fire Science Technology Non-equivalent

Lec: 0 Lab: 0 Credit: *

Indicates credit given for fire and science technology course work transferred from another college for which there is no equivalent course at TTC.

*Hours vary depending on external course.

Division

Manufacturing and Maintenance

2024-2025 TTC Catalog

Gas Metal Arc Welding Fundamentals

Certificate in Applied Science

14 Credit Hours

The Gas Metal ARc Welding fundamentals certificate prepares students for entry-level welding employment. This certificate is designed to provide basic structural welding learning experiences for beginning and intermediate students. Students will take foundation courses in industrial safety, blueprint reading, Gas Metal Arc Welding (MIG) and multi-position welding on plate steel and structural shapes.

Major Requirements

IET 223 Industrial Safety 3
WLD 118 Gas Metal Arc Welding Ferrous I 4
WLD 150 Specialized Welding 4
WLD 127 Structural Blueprints I 3

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

Total: 14

2024-2025 TTC Catalog

General Technology - Air Conditioning and Refrigeration Mechanics

Associate in Applied Science in General Technology

Air Conditioning/Refrigeration Career Path

60-64 Credit hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path prepares students for entry-level positions in the residential and light commercial heating and air conditioning field. Students are taught refrigeration fundamentals, tools and service, gas and electric heat, heat pumps, air conditioning, and basic sheet metal skills for duct fabrication.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

First Year Experience

IDS 109 First Year Experience Seminar 3
or
EGR 110 Introduction to Computer Environment 3

Total: 3

Primary Technical Specialty

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
ACR 111 Gas Heating Principles 3
ACR 120 Basic Air Conditioning 4
ACR 150 Basic Sheet Metal 2
ACR 210 Heat Pumps 4
ACR 224 Codes and Ordinances 2
IMT 151 Piping Systems 3

and

a minimum of two credit hours in an IMT course with faculty advisor approval.

Total: 29

Secondary Technical Specialty

Take 13 - 17 additional credit hours from the following subject areas to meet the requirements for an associate degree. Twelve credit hours can be applied to a secondary technical specialty and five credit hours can be applied to a third specialty, if applicable. All secondary studies must be approved by your academic advisor.

Secondary Technical Specialty Programs

Automotive Technology
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Industrial Maintenance
Machine Tool Technology
Mechatronics
Welding Technology

Total: 13-17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Automotive Technology

Associate in Applied Science in General Technology

Automotive Technology career path

66-71 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path introduces students to the highly technical automotive industry. Employers today are looking for technicians with strong mechanical, analytical and reading comprehension skills. Students develop the basic skills required for the diagnosis, maintenance and repair of passenger cars and light trucks through theory and shop instruction. In addition, they are introduced to essential management and customer service principles.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

First-Year Experience Requirement

EGR 110 Introduction to Computer Environment 3
or
IDS 109 First Year Experience Seminar 3

Total: 3

Primary Technical Specialty

AUT 103 Engine Reconditioning 4
AUT 111 Brakes 3
AUT 116 Manual Transmission and Axle 4
AUT 122 Suspension and Alignment 4
AUT 131 Electrical Systems 3
AUT 133 Electrical Fundamentals 3
AUT 149 Ignition and Fuel Systems 4
AUT 152 Automatic Transmission 4
AUT 159 Tools, Equipment and Reference Manuals 3
AUT 241 Automotive Air Conditioning 4

Total: 36

Take 12 - 17 additional credit hours from the following subject areas to meet the requirements for an associate degree. Twelve credit hours can be applied to a secondary technical specialty and five credit hours can be applied to a third specialty, if applicable. All secondary studies must be approved by your academic advisor.

Secondary Technical Specialty Programs

Air Conditioning and Refrigeration
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Industrial Maintenance
Machine Tool Technology
Mechatronics
Welding Technology

Total: 12-17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Avionics Maintenance Technology

Associate in Applied Science

68 Credit Hours

This program allows students to select course work necessary to become multi-skilled technicians in the field of avionics maintenance. All students develop skills that include installation and maintenance of aviation electrical and electronic systems needed to keep aircraft flying safely. In addition, students choose a secondary specialty focused either on aircraft assembly or aircraft maintenance.

General Education Core Requirements

ENG 101 English Composition I 3
IDS 109 First Year Experience Seminar 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty

AVT 101 Basic Electricity for Avionics 4
AVT 105 Aircraft Electricity for Avionics 4
AVT 110 Aircraft Electronic Circuits 4
AVT 115 Aircraft Digital Circuits 3
AVT 120 Aviation Electronic Communications 4
AVT 125 Aviation Data Communications 3
AVT 140 Avionics Standard Practices 3
AVT 145 Avionics Circuit Repair 3
AVT 150 Aircraft Navigation Systems 3
AVT 155 Aircraft Pulse Systems 3
AVT 160 Aircraft Radar Systems 3
AVT 165 Avionics General Regulations 2
AVT 170 Avionics Program and Test Review 1

Total: 40

Secondary Technical Specialty - Option One Aircraft Maintenance

These are suggested courses; Other courses may be substituted from other primary technical specialties. See your program advisor.

ACM 101 General Regulations 2
ACM 102 Aviation Sciences 3
ACM 110 Aircraft Drawings 1
ACM 115 Ground Handling and Servicing 3
ACM 120 Materials and Corrosion Control 4

Total: 13

Secondary Technical Specialty - Option Two Aircraft Assembly

AMF 109 Aircraft Materials and Hand Tools 3
AMF 110 Corrosion Control and Sealing Applications 2
AMF 132 Aircraft Sheet Metal Assembly 3
AMF 137 Aircraft Composite Structures 3
AMF 142 Airframe Auxiliary Systems 2

Total: 13

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Industrial Maintenance

Associate in Applied Science in General Technology

Industrial Maintenance Career Path

67-72 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This program prepares students for a broad range of employment within the industrial maintenance field. The program is designed to develop multi- skilled technicians who install, maintain and repair commercial or industrial machinery in buildings, process plants or manufacturing settings. The mechanical primary path provides a solid foundation in drive systems, hydraulics, pneumatics, pumps, piping systems, and machinery preventive and predictive maintenance. As part of the associate degree program students choose a secondary path in a technical field of study. Students can choose air conditioning and refrigeration, welding, industrial electrical and automation controls or machine tool technology. See your advisor for more information.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

First Year Experience Requirement

EGR 110 Introduction to Computer Environment 3
or

IDS 109 First Year Experience Seminar 3

Total: 3

Primary Technical Specialty Requirements

IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
IMT 115 Industrial Schematics 3
IMT 127 Industrial Pumps 3
IMT 131 Hydraulics and Pneumatics 4
IMT 140 Industrial Electricity 5
IMT 151 Piping Systems 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4
IMT 163 Problem Solving for Mechanical Applications 3
MGT 101 Principles of Management 3

Total: 37

Secondary Technical Specialty

Take 12 - 17 additional credit hours from the following subject areas to meet the requirements for an associate degree. Twelve credit hours can be applied to a secondary technical specialty and five credit hours can be applied to a third specialty, if applicable. All secondary studies must be approved by your academic advisor.

Secondary Technical Specialty Programs

Air Conditioning and Refrigeration
Automotive Technology
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Machine Tool Technology
Mechatronics
Welding Technology

Total: 12-17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Machine Tool Technology

Associate in Applied Science in General Technology

Machine Tool Technology Career Path

63-65 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This program introduces students to workplace safety, blueprint reading, precision measuring, basic conventional machining and CNC operations, including set-up and programming. Students are prepared for entry-level employment in the metal- working industry.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

First Year Experience Requirement

EGR 110 Introduction to Computer Environment 3
or
IDS 109 First Year Experience Seminar 3

Total: 3

Primary Technical Specialty Requirements

IET 223 Industrial Safety 3
MTT 101 Introduction to Machine Tool 2
MTT 111 Machine Tool Theory and Practice I 5
MTT 112 Machine Tool Theory and Practice II 5
MTT 120 Machine Tool Print Reading 3
MTT 143 Precision Measurements 2
MTT 175 Innovations in Machining Technology 3
MTT 250 Principles of CNC 3
MTT 251 CNC Operations 3
MTT 253 CNC Programming and Operations 3

Total: 32

Secondary Technical Specialty Requirements

Take 15 - 17 additional credit hours from the following subject areas to meet the requirements for an associate degree. Twelve credit hours can be applied to a secondary technical specialty and up to eleven credit hours can be applied to a third specialty, if applicable. All secondary studies must be approved by your academic advisor.

Secondary Technical Specialty Programs

Air Conditioning and Refrigeration
Automotive Technology
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Industrial Maintenance
Mechatronics
Welding Technology

Total: 15-17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Marine Engineering Technology

Associate in Applied Science in General Technology

Marine Engineering Technology Career Path

82 Credits

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

This career path provides students with the opportunity and fundamental knowledge to work aboard United States Merchant Mariner vessels with the engine department upon successful completion of TTC's initial course work in the General Education Core and Primary Technical Specialty requirements. Students receive a comprehensive knowledge of machinery theory as well as hands-on experience to install, repair and maintain various types of equipment.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty Requirements

IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
IMT 115 Industrial Schematics 3
IMT 127 Industrial Pumps 3
IMT 131 Hydraulics and Pneumatics 4
IMT 140 Industrial Electricity 5
IMT 151 Piping Systems 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4

IMT 163 Problem Solving for Mechanical Applications 3
MTT 120 Machine Tool Print Reading 3

Total: 37

Secondary Technical Specialty Requirements

ACR 106 Basic Electricity for HVAC-R 4
ACR 108 Refrigeration Fundamentals 3
ACR 109 Tools and Service Techniques II 2
MTT 111 Machine Tool Theory and Practice I 5
WLD 111 Arc Welding I 4

and
MNT 001 Marine and Nautical Technology Non-Equivalent *
*Students receive 12 hours of elective for marine and nautical technology course work transferred from another college for which there is no equivalent course at TTC.
(Total: 12)
or
Maritime Work Experience
CWE 113 Cooperative Work Experience 3 (1st Work Experience)
CWE 123 Cooperative Work Experience 3 (2nd Work Experience)
CWE 133 Cooperative Work Experience 3 (3rd Work Experience)
CWE 213 Cooperative Work Experience 3 (4th Work Experience)
(Total: 12)

Total: 30

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

General Technology - Welding

Associate in Applied Science in General Technology

Welding Career Path

69-74 Credit Hours

The General Technology major allows students to select course work necessary to become multi-skilled technicians. In addition to completing the college's core curriculum, students also complete course work in at least two technical areas. The following is an example of a career path available. The secondary paths may be substituted for courses in other programs' primary path. Interested students should talk with their advisors.

The welding career path prepares students for entry level employment in the welding career field, which includes manufacturing, construction, transportation, fabrication, inspection and sales. The program provides students with an overview of various welding processes and applications as well as knowledge in the areas of welding metallurgy, weld quality, print reading and welding safety.

Students can earn only one General Technology degree in a single career path.

General Education Core Requirements

ENG 101 English Composition I 3
SPC 205 Public Speaking 3
or
SPC 209 Interpersonal Communication 3

REQ HUM	Select from Humanities	3
REQ MAT	Select from Mathematics/ Natural Sciences	3
REQ SSC	Select from Behavioral/Social Sciences	3

Total: 15

Primary Technical Specialty - Shielded Metal Arc Concentration Group

Select any two concentration groups for the Primary Technical Specialty

WLD 111 Arc Welding I 4
WLD 114 Advanced Arc Welding 1
WLD 145 Field Welding 2
WLD 170 Qualification Welding 4

WLD 226 Arc Welding Pipe II 1
WLD 222 Advanced Fabrication Welding 4
or
WLD 225 Arc Welding Pipe I 4

Total: 16

Primary Technical Specialty - Gas Metal Arc & Flux Cored Arc Concentration Group

Select any two concentration groups for the Primary Technical Specialty.

WLD 118 Gas Metal Arc Welding Ferrous I 4
WLD 119 Gas Metal Arc Welding Ferrous II 1
WLD 120 Flux Cored Arc Welding I 4
WLD 123 Gas Metal Arc Welding Non-Ferrous II 1
WLD 232 Gas Metal Arc-Flux Cored Arc Welding Pipe II 2
WLD 150 Specialized Welding 4
or
WLD 231 Gas Metal Arc and Flux Cored Arc Welding Pipe I 4

Total: 16

Primary Technical Specialty - Gas Tungsten Arc Concentration

Select any two concentration groups for the Primary Technical Specialty.

WLD 132 Inert Gas Welding Ferrous 4
WLD 133 Inert Gas Welding Ferrous Tubing 1
WLD 137 Inert Gas Welding Aluminum Tubing 1
WLD 152 Tungsten Arc Welding 4
WLD 228 Inert Gas Welding Pipe I 4
WLD 229 Inert Gas Welding Pipe II 2

Total: 16

Additional Requirements

WLD 110 Welding Safety and Health 1
WLD 127 Structural Blueprints I 3
WLD 141 Weld Quality 2
WLD 201 Welding Metallurgy 2
WLD 203 Structural Blueprints II 2

Total: 10

Secondary Technical Specialty

Take 12 - 17 additional credit hours from the following subject areas to meet the requirements for an associate degree. Twelve credit hours can be applied to a secondary technical specialty and five credit hours can be applied to a third specialty, if applicable. All secondary studies must be approved by your academic advisor.

Secondary Technical Specialty Optional Course
WLD 240 Robotic Welding and Manufacturing 4

Secondary Technical Specialty Programs

Air Conditioning and Refrigeration
Automotive Technology
Business Administration
Commercial Truck Driving
Electrical Line Worker
Electrician: Automation, Construction and Industrial
Engineering Design Graphics
Industrial Maintenance
Machine Tool Technology
Mechatronics

Total: 12-17

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog

Industrial Mechanic

Certificate in Applied Science
34 Credit Hours

The Industrial Mechanic program prepares students for employment in industrial mechanics. This program teaches skills required for troubleshooting, maintenance and repair of mechanical systems.

IMT prefix courses are available based on demand. See your program advisor.

Major Requirements

IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
IMT 115 Industrial Schematics 3
IMT 127 Industrial Pumps 3
IMT 131 Hydraulics and Pneumatics 4
IMT 140 Industrial Electricity 5
IMT 151 Piping Systems 3
IMT 160 Preventive Maintenance 3
IMT 161 Mechanical Power Applications 4
IMT 163 Problem Solving for Mechanical Applications 3

Total: 34

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Introduction to Arc Welding

Certificate in Applied Science

14 Credit Hours

The Introduction to Arc Welding certificate prepares students for entry-level welding employment. This certificate is designed to provide a multi-disciplined learning experience for a beginning and intermediate welding student. Students will take foundation courses in industrial safety, blueprint reading, Shielded Metal Arc Welding (Stick) and Gas Tungsten Arc Welding (TIG). Welding will be performed in multiple positions on plate steel and sheet metal.

Major Requirements

IET 223 Industrial Safety 3
WLD 111 Arc Welding I 4
WLD 127 Structural Blueprints I 3
WLD 132 Inert Gas Welding Ferrous 4

Total: 14

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Technology Core

Certificate in Applied Science

12 Credit Hours

The Technology Core program prepares students for entry-level employment in the manufacturing production career field. This program teaches the fundamental interpersonal communication, mathematics, safety, and industrial skills needed for multiple positions within a manufacturing workplace.

Major Requirements

IET 223 Industrial Safety 3
IMT 106 Fundamentals of Industrial Technology 3
MAT 170 Algebra, Geometry and Trigonometry I 3
SPC 209 Interpersonal Communication 3

Total: 12

Admission into this program requires qualifying scores on placement. High school graduation is not required if you are at least 18 years old.

2024-2025 TTC Catalog

Welding Gas Metal Arc and Flux Cored Arc

Certificate in Applied Science
26 Credit Hours

This certificate teaches beginning and intermediate welding students the principles and practices of gas metal arc and flux cored arc welding in preparation for entry into the welding fields of manufacturing, construction, transportation and maintenance.

Major Requirements

WLD 110 Welding Safety and Health 1
WLD 118 Gas Metal Arc Welding Ferrous I 4
WLD 119 Gas Metal Arc Welding Ferrous II 1
WLD 120 Flux Cored Arc Welding I 4
WLD 123 Gas Metal Arc Welding Non-Ferrous II 1
WLD 127 Structural Blueprints I 3
WLD 141 Weld Quality 2
WLD 201 Welding Metallurgy 2
WLD 203 Structural Blueprints II 2
WLD 232 Gas Metal Arc-Flux Cored Arc Welding Pipe II 2
WLD 150 Specialized Welding 4
or
WLD 231 Gas Metal Arc and Flux Cored Arc Welding Pipe I 4

Total: 26

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Welding Gas Tungsten Arc

Certificate in Applied Science
26 Credit Hours

This certificate teaches beginning and intermediate welding students the principles and practices of gas tungsten arc welding carbon steel, aluminum and stainless steel sheet metal, plate and tubing.

Major Requirements

WLD 110 Welding Safety and Health 1
WLD 127 Structural Blueprints I 3
WLD 132 Inert Gas Welding Ferrous 4
WLD 133 Inert Gas Welding Ferrous Tubing 1
WLD 137 Inert Gas Welding Aluminum Tubing 1
WLD 141 Weld Quality 2
WLD 152 Tungsten Arc Welding 4
WLD 201 Welding Metallurgy 2
WLD 203 Structural Blueprints II 2
WLD 228 Inert Gas Welding Pipe I 4
WLD 229 Inert Gas Welding Pipe II 2

Total: 26

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog

Welding Shielded Metal Arc

Certificate in Applied Science
26 Credit Hours

This certificate teaches beginning and intermediate welding students the principles and practices of shielded metal arc welding in preparation for entry into the welding fields of construction, fabrication and maintenance.

Major Requirements

WLD 110 Welding Safety and Health 1
WLD 111 Arc Welding I 4
WLD 114 Advanced Arc Welding 1
WLD 127 Structural Blueprints I 3
WLD 141 Weld Quality 2
WLD 145 Field Welding 2
WLD 170 Qualification Welding 4
WLD 201 Welding Metallurgy 2
WLD 203 Structural Blueprints II 2
WLD 226 Arc Welding Pipe II 1
WLD 222 Advanced Fabrication Welding 4
or
WLD 225 Arc Welding Pipe I 4

Total: 26

Admission Requirements

Students who are at least 18 years old and have acceptable scores from the SAT, ACT or placement test can be admitted into this program without a high school diploma or GED.

2024-2025 TTC Catalog - Nursing

TTC's Division of Nursing offers a curriculum with multiple entry and exit points with options for students to earn a diploma and an associate degree. The Nursing curriculum incorporates course requirements for the Nursing programs into two levels. The sequential program levels prepare students for progressive roles of nursing practice: the practical nurse and the registered nurse. Students may successfully complete requirements for each program level and exit, or progress to the next level. Requirements for each program level of the curriculum are progressive and must be met before entering courses in the next program level.

All qualified students may enter the first program level (Practical Nursing [PN]) and exit with a Diploma in Applied Science or meet the progression requirements for the second program level and continue in the curriculum. Students who successfully complete the required courses of the second program level (Associate Degree Nursing [ADN]) exit with an Associate in Applied Science degree.

Qualified students who are Licensed Practical Nurses (LPN) may enter the second program level of the curriculum and follow the LPN-to-ADN option. The LPN students who successfully complete the second program level exit with an Associate in Applied Science degree.

The Nursing curriculum combines general education courses and clinical nursing courses and incorporates classroom instruction, laboratory simulation and clinical practice to ensure students obtain the most current knowledge and high-level skills available in the nursing profession.

Information may also be found on the Nursing Division's website at www.tridenttech.edu/academics/ divisions/nur/index.htm and the Student Nurses Portal at https://my.tridenttech.edu/academics/nursing.

General Information

The Associate Degree and Practical Nursing programs at Trident Technical College at the Thornley campus are accredited by the Accreditation Commission for Education in Nursing (ACEN, 3390 Peachtree Road NE, Suite 1400, Atlanta, GA 30326). The most recent accreditation decision made by the ACEN Board of Commissioners for the Associate Degree and Practical Nursing programs are continuing accreditation. The Associate Degree and Practical Nursing programs are approved by the South Carolina Department of Labor, Licensing and Regulation Board of Nursing (110 Centerview Dr., Columbia, SC 29210).

All clinical Nursing courses are seven-week terms. Clinical experiences may be scheduled Monday through Sunday on any shift. Professional courses for the Associate Degree Nursing level are offered in sequence and require two years for completion. Professional courses for the Practical Nursing level are offered in sequence and require three semesters for completion.

Prior to beginning clinical experiences in the Nursing programs, students must have current CPR certification, medical professional liability insurance, major medical insurance, and all required immunizations, titers and tests. In these programs,

students are required to purchase uniforms, laboratory supplies and other course materials. Since students will be assigned to clinical sites off campus, they must have reliable transportation. Trident Technical College (TTC) Nursing students must be eligible and able to attend all clinical rotations at sites the program utilizes for clinical practice. Therefore, students in the TTC nursing program must meet any and all eligibility requirements mandated by the clinical facilities, including vaccination requirements. When allowed, declinations are considered on a case-by-case basis by the clinical facility. If a declination is accepted, the student will be required to adhere to any and all policies set forth by the clinical agency. This is not a TTC initiative, but a requirement imposed by many of our clinical facilities. Nursing education programs are mandated by boards of nursing as well as accreditors to provide students with clinical experiences. Nursing programs are not obligated to provide substitute or alternate clinical experiences based on a student's request or preference. Boards of nursing have no obligation to waive their current rules/regulations regarding clinical experiences for unvaccinated students. To ensure equitable treatment of all students, the TTC nursing program does not customize student schedules for any reason other than a documented disability.

Please note: Clinical experiences are integral to nursing education. If a student cannot complete the clinical requirements for any reason, the student is not eligible to progress in the nursing program.

To be in compliance with affiliation agreements between TTC and clinical facilities, all students entering Nursing programs are required to have a completed drug screen and criminal background check. Students will complete a criminal background check and drug screen through an agency designated by the college within a time frame defined by the nursing division prior to enrolling in the nursing program. In addition, students will be assessed processing fees.

The results of the drug screen will be made available to the dean or the dean's designee. Students with positive drug screens will not be permitted to enroll in clinical nursing courses.

The results of the criminal background check will be securely shared with each clinical site prior to any clinical rotation. The clinical agency will review all adverse findings and determine whether or not the findings disqualify the student from clinical practice. Should a student be disqualified from clinical practice in a clinical agency, the student must meet with the clinical coordinator to review potential options. Students who cannot be placed in all clinical rotations because of adverse findings will have to choose another career path.

Students who have previous disciplinary actions and/or convictions may not be eligible to take the NCLEX examination and/or become licensed by the State Board of Nursing, even if a degree has been conferred. Students who have such disciplinary actions and/or convictions will not be reviewed by the Board of Nursing until their application to test is submitted. The Board of Nursing does its own criminal background check and then will make the determination if the student is eligible to take the NCLEX licensing exam. Conviction of a crime (other than a minor traffic violation) could make the student ineligible to take the licensing exam required by the profession upon graduation. Early

notification to the appropriate board is suggested. The contact to the South Carolina Labor, Licensing, and Review Board (LLR) is https://llr.sc.gov/nurse/.

Nursing Program Admission Requirement Changes
Admission requirements for the Nursing program are subject to change. Students should visit https://my.tridenttech.edu/academics/nursing at the beginning of each semester for changes in admission requirements.

Admission to the Nursing Programs
In order to apply for admission to the Nursing programs, students must first be accepted to TTC. Please note that admission to TTC does not guarantee admission to the Nursing programs.

Students are admitted to the Nursing programs on a first-qualified, first-admitted basis to the next- available space. Dates for the next-available spaces in the Nursing programs are posted on the Student Nurses Portal at https://my.tridenttech.edu/academics/nursing.

General Nursing Admission Requirements
All students applying to a Nursing program must meet the following General Nursing Admission Requirements:

1. Submit official transcripts from all post-secondary institutions, colleges and universities previously attended. Laboratory sciences must be taken within five years of the entry date to the program.
   a. Achieve a minimum cumulative GPA of a 2.0 on each transcript.
      or
   b. Complete ten (10) semester hours and achieve a grade of C or better in each course with at least one (1) of the courses being either BIO 210, BIO 211, BIO 225 or equivalent.
2. Meet the Program Specific Admission Requirements identified under each program.

Application Process
Students applying to one of the nursing programs must meet the General Nursing Admission Requirements prior to submitting an application. Once these requirements are complete students may submit an online *Nursing Application* to the Nursing Admissions Coordinator.

After acceptance, return the form accepting the seat (Seat Acceptance Form) electronically per the instructions on the form by the deadline stated in the acceptance letter.

Additional Requirements
Prior to enrolling in the first clinical nursing course, all students must:

1. Have a minimum cumulative GPA of 2.0 for courses taken at TTC and NOT be on academic or disciplinary suspension at the time of admission and date of entry into the program.

1. Show evidence of a criminal background check and drug screen completed within six months prior to starting the Nursing program. Only criminal background checks

and drug screens that are conducted through the agency designated by the college will be accepted.

Important Note: Instructions for obtaining criminal background checks and drug screens will be given to students the semester before the date of entry to the Nursing program. Students will be assessed a processing fee.

Important Note: Students initially admitted to the Practical Nursing program who wish to progress to the ADN program MUST provide proof of current South Carolina licensure as a practical nurse prior to applying for progression to the ADN program.

Reminder: Prerequisites for clinical courses may change based on clinical affiliation agreement requirements. Students are responsible for meeting all prerequisites to clinical courses throughout the program.

Falsification of any information submitted will make a student ineligible for admission to or continuation in the Nursing program.

Transfer to Specific Programs

Students seeking admission to a Nursing program at TTC who have been enrolled in (and not completed) another Nursing program must complete the following requirements to be considered for admission:
NOTE: Only students who have no more than one unsuccessful attempt in a clinical nursing course are considered for admission. Attempts are a W, D, F, U, or as defined by the previous nursing program attended as an unsuccessful attempt. Student's who have more than one unsuccessful attempt in another nursing program can request an exception based on extenuating circumstances as defined by the college. The Request for Exception Form can be found on the Student Nurses Portal at https://my.tridenttech.edu/academics/nursing.

1. Meet the college's admission requirements.
2. Meet the Nursing program's admission
3. Meet the college's requirements for 25 percent of the curriculum credit hours to be taken at TTC.
4. Meet all prerequisite and corequisite courses applicable to the semester for which the student is seeking entry. Laboratory sciences must be taken within five years of the date of entry into the program.
5. Once the student is eligible for admission, he/she may request consideration for transfer credit for nursing courses taken within the last two years by submitting a written request to the associate dean.

Course Sequence and Progression

To progress in the program, students must achieve a minimum grade of C in all courses. These courses must be successfully completed before or during the term in which they appear as a corequisite in the recommended sequence of courses for the program and semester of entry. Laboratory sciences must be taken within five years of the date of entry into the program.

Dosage Proficiency

Prior to progressing to Nursing Care Management I (NUR 104), students must successfully demonstrate proficiency in dosage calculations by registering for Health

Calculations (AHS 126) and either successfully completing the PN Dosage Proficiency Placement Exam with a minimum grade of 95 percent or successfully completing the course.

Prior to progressing to ADN level course Complex Health Problems (NUR 210), students must successfully demonstrate proficiency in dosage calculations by registering for Health Calculations II (AHS 129) and either successfully completing the ADN Dosage Proficiency Placement Exam with a grade of 100 percent or successfully completing the course.

As nondegree courses, Health Calculations (AHS 126) and Health Calculations II (AHS 129) may not qualify for some forms of financial aid. Students should speak with a financial aid counselor if they have any questions.

Repeat Policy and Termination
Practical Nursing and Associate Degree Nursing students may have no more than two unsuccessful attempts in clinical nursing courses. LPN-ADN students may have no more than one unsuccessful attempt in clinical nursing courses. Students enrolled in the following non-clinical courses may have no more than three unsuccessful attempts: Health Calculations (AHS 126), Health Calculations II (AHS 129), Transition Nursing (NUR 201), Nursing Seminar (NUR 216), Pharmacology for Nurses (NUR 105) and Basic Concepts of Pharmacology (NUR 161). An unsuccessful attempt is defined as receiving a W, D, F or U. Please note, if a student has had an unsuccessful attempt in a clinical nursing course in another nursing program, this will count as an attempt in the TTC nursing program. The progression and readmission policy is in the Student Nurses Handbook, https://my.tridenttech.edu/academics/nursing.

Readmission
Students enrolled in any Nursing program who do not progress in the curriculum sequence for any reason (academic or personal) must seek readmission to progress to another clinical course. Readmission is not automatic. Criteria for readmission are outlined in the *Student Nurses Handbook*.

Graduation Requirements
All general education requirements must be completed prior to or during the final semester to ensure eligibility to take the National Council Licensure Examination (NCLEX) upon graduation. Prior to graduation, students are required to demonstrate proficiency on a standardized national examination.

Associate Degree

Nursing - ADN

Nursing - ADN - LPN to ADN

Diploma

>

Practical Nursing

Certificate

Pre-Nursing

2024-2025 TTC Catalog

Nursing - ADN - LPN to ADN

Associate in Applied Science in Nursing (ADN)

LPN to ADN Option Career Path

68 Credit Hours

Applicants who are Licensed Practical Nurses from another program or who have been out of TTC's PN program two or more years are eligible to be considered for admission to the LPN-to-ADN Option. Students in this option will be required to complete a transition course with a grade of C or better before entering the second program level Nursing courses.

Note: Spring Semester includes non-nursing courses only. These courses are prerequisites for Transition Nursing (NUR 201) and must be completed prior to enrolling in NUR 201.

Students who have completed these non-nursing courses, may enter and enroll in NUR 201 in the second semester, which is the Summer term.

Applicants who have graduated from TTC's PN program less than two years before application must meet Associate Degree Nursing Admission Requirements. These students are not required to take the transition course.

Accreditation

Accreditation Commission for Education in Nursing
3390 Peachtree Road NE
Suite 1400
Atlanta, GA 30326

General Education Core Requirements

BIO 210 Anatomy and Physiology I 4
ENG 101 English Composition I 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 16

Major Requirements

BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
NUR 201 Transition Nursing 3

NUR 206 Clinical Skills Application 2
NUR 208 Health Promotion for Families II 4
NUR 210 Complex Health Problems 5 **
NUR 219 Nursing Management and Leadership 4 ***
PSY 203 Human Growth and Development 3

+Automatic credit for courses in the Practical Nursing program will be awarded after successful completion of the first clinical nursing course. These include the following: Basic Nursing Care Skills (NUR 102), Nursing Care Management I (NUR 104), Pharmacology for Nurses (NUR 105), Health Promotion for Families I (NUR 158), Patient Centered Nursing Care I (NUR 195), Basic Concepts of Pharmacology (NUR 161), Patient Centered Nursing Care II (NUR 205).

*** Prior to enrolling in NUR 210, students must successfully complete the Associate Degree Nursing (ADN) Level Dosage Proficiency Placement Exam or Health Calculations II (AHS 129).*

****Prior to enrolling in NUR 219, students will be required to demonstrate proficiency on a standardized national examination or enroll in Nursing Seminar (NUR 216) as a corequisite to NUR 219.*

Total: 29

General Nursing Admission Requirements

All students applying to a Nursing program must meet the following General Nursing Admission Requirements:

1. Submit official transcripts from all post- secondary institutions, colleges and universities previously attended. Laboratory sciences must be taken within five years of the entry date to the program.
   a. Achieve a minimum cumulative GPA of a 2.0 on each transcript
      or
   b. Complete ten (10) semester hours and achieve a grade of C or better in each course with at least one (1) of the courses being either BIO 210, BIO 211, BIO 225 or equivalent.
2. Meet the Program Specific Admission Requirements.

Program-Specific Admission Requirements

1. Earn a minimum of eight (8) points from the following categories:
   a. ADN admission option
   b. BIO 210 grade (within 5 years)
   c. BIO 211 grade (within 5 years)
   d. PN Comprehensive Predictor Score
      To see the points for each category, visit the Student Nurse Portal at https://my.tridenttech.edu/academics/nursing/Pages/default.aspx.
2. Provide proof of graduation from a practical nursing program by submitting official transcripts.
3. Verify that name appears on the S.C. Board of Nursing website as having a current, unencumbered S.C. license as a practical nurse.

4. LPNs from another program or who have been out of TTC's PN program for two years or more must provide an *Employment Verification* form validating a minimum of 960 hours employment as a LPN within three years prior to admission to the program.

2024-2025 TTC Catalog

Nursing - ADN

Associate in Applied Science in Nursing (ADN)

65 Credit Hours

The Associate Degree Nursing program requires a minimum of two years to complete. A graduate of the ADN program is eligible to apply to take the National Council Licensure Examination-RN (NCLEX-RN). Upon satisfactory completion of the examination, graduates are titled Registered Nurses (RN).

The ADN program has two options for student completion: the Generic Option and the LPN-to-ADN Option.

Accreditation

Accreditation Commission for Education in Nursing
3390 Peachtree Road NE
Suite 1400
Atlanta, GA 30326

General Education Core Requirements

BIO 210 Anatomy and Physiology I 4
ENG 101 English Composition I 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3

REQ HUM	Select from Humanities	3

Total: 16

Major Requirements

BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
NUR 102 Basic Nursing Care Skills 4
NUR 104 Nursing Care Management I 4 *
NUR 105 Pharmacology for Nurses 1
NUR 158 Health Promotion for Families I 4
NUR 161 Basic Concepts of Pharmacology 2
NUR 195 Patient-Centered Nursing Care I 4
NUR 205 Patient-Centered Nursing Care II 4
NUR 206 Clinical Skills Application 2
NUR 208 Health Promotion for Families II 4
NUR 210 Complex Health Problems 5 **

NUR 219 Nursing Management and Leadership 4 ***
PSY 203 Human Growth and Development 3

**Prior to enrolling in NUR 104, students must successfully complete the Practical Nursing (PN) Level Dosage Proficiency Placement Exam or Health Calculations I (AHS 126).*

***Prior to enrolling in NUR 210, students must successfully complete the Associate Degree Nursing (ADN) Level Dosage Proficiency Placement Exam or Health Calculations II (AHS 129).*

****Prior to enrolling in NUR 219, students will be required to demonstrate proficiency on a standardized national examination or enroll in Nursing Seminar (NUR 216) as a corequisite to NUR 219.*

Total: 49

General Nursing Admission Requirements

All students applying to a Nursing program must meet the following General Nursing Admission Requirements:

1. Submit official transcripts from all post-secondary institutions, colleges and universities previously attended. Laboratory sciences must be taken within five years of the entry date to the program.
   a. Achieve a minimum cumulative GPA of a 2.0 on each transcript
      or
   b. Complete ten (10) semester hours and achieve a grade of C or better in each course with at least one (1) of the courses being either BIO 210, BIO 211, BIO 225 or equivalent.
2. Meet the Program Specific Admission Requirements.

Program-Specific Admission Requirements

1. Meet *one* of the following three admission options.
   a. Hold an associate degree or higher from a regionally accredited school with a minimum cumulative GPA of 2.75. Students must have a minimum cumulative GPA of 2.0 at TTC at time of admission.
      or
   b. Achieve the required score on the National League for Nursing Pre-Admission Exam (PAX). Scores are valid for two years from date of testing. All student inquiries about PAX testing should be directed to Testing Services. Students must have a minimum cumulative GPA of 2.0 at TTC at time of admission.
      or
   c. Complete the Pre-Nursing certificate with a minimum GPA for the certificate of 2.75. No more than three of the six courses required for the Pre-Nursing certificate may be repeated to meet this admission option, and all courses must be completed with a minimum grade of C. Students must have a minimum cumulative GPA of 2.0 at TTC at time of admission.

2024-2025 TTC Catalog

Practical Nursing

Diploma in Applied Science in Practical Nursing

43 Credit Hours

The Practical Nursing program is a three-semester program of study that prepares students to provide patient care under the supervision of professional registered nurses, physicians or dentists. A graduate of the Practical Nursing program is eligible to apply to take the National Council Licensure Examination-PN (NCLEX-PN). Upon satisfactory completion of the examination, graduates are titled Licensed Practical Nurses (LPN).

The PN program combines general education with clinical nursing courses and incorporates classroom instruction, laboratory simulation and clinical practice. Students who complete the Practical Nursing program may qualify to apply for progression and continue the Nursing curriculum to complete the Associate Degree Nursing program.

Accreditation

Accreditation Commission for Education in Nursing
3390 Peachtree Road NE
Suite 1400
Atlanta, GA 30326

General Education Core Requirements

ENG 101 English Composition I 3
PSY 201 General Psychology 3

REQ GEN	Select from General Education	3

Total: 9

Major Requirements

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
NUR 102 Basic Nursing Care Skills 4
NUR 104 Nursing Care Management I 4 *
NUR 105 Pharmacology for Nurses 1
NUR 158 Health Promotion for Families I 4
NUR 161 Basic Concepts of Pharmacology 2
NUR 195 Patient-Centered Nursing Care I 4
NUR 205 Patient-Centered Nursing Care II 4
PSY 203 Human Growth and Development 3

**Prior to enrolling in NUR 104, students must successfully complete the Practical Nursing (PN) Level Dosage Proficiency Placement Exam or Health Calculations (AHS 126).*

Total: 34

General Nursing Admission Requirements

All students applying to a Nursing program must meet the following General Nursing Admission Requirements:

1. Submit official transcripts from all post- secondary institutions, colleges and universities previously attended. Laboratory sciences must be taken within five years of the entry date to the program.
   a. Achieve a minimum cumulative GPA of a 2.0 on each transcript
      or
   b. Complete ten (10) semester hours and achieve a grade of C or better in each course with at least one (1) of the courses being either BIO 210, BIO 211, or equivalent.
2. Meet the Program Specific Admission Requirements.

Program-Specific Admission Requirements

1. Meet *one* of the following three admission options:
   a. Hold an associate degree or higher from a regionally accredited school with a minimum cumulative GPA of 2.75. Students must have a minimum cumulative GPA of 2.0 at TTC at time of admission.
      or
   b. Achieve the required score on the National League for Nursing Pre-Admission Exam (PAX). Scores are valid for two years from date of testing. All student inquiries about PAX testing should be directed to Testing Services. Students must have a minimum cumulative GPA of 2.0 at TTC at time of admission.
      or
   c. Complete the Pre-Nursing certificate with a minimum GPA for the certificate of 2.75. No more than three of the six courses required for the Pre-Nursing certificate may be repeated to meet this admission option, and all courses must be completed with a minimum grade of C. Students must have a minimum cumulative GPA of 2.0 at TTC at time of admission.

Important Notes:

Students initially admitted to the Practical Nursing program who wish to progress to the ADN program MUST provide proof of current unencumbered S.C. licensure as a Practical Nurse prior to applying for progression to the ADN program.

Admission to this program does not require proof of high school graduation. Students progressing to the ADN program will be required to submit proof of high school graduation.

2024-2025 TTC Catalog

Pre-Nursing

Certificate in Applied Science
20 Credit Hours

The Pre-Nursing Certificate is a curriculum program, which offers 20 hours of college credit. Pending admission to one of the Nursing programs, students may complete the certificate program. While completion of this certificate may not be the selected admission option, it will provide the student with knowledge prior to entering one of the Nursing programs. The curriculum incorporates classroom and laboratory instruction.

Major Requirements

BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
ENG 101 English Composition I 3
MAT 110 College Algebra 3
or
MAT 120 Probability and Statistics 3
PSY 201 General Psychology 3
PSY 203 Human Growth and Development 3

Total: 20

Note: Completion of the Pre-Nursing certificate alone does not meet the Pre-Nursing Certificate option for admission to the Nursing program. Students using the Pre-Nursing Certificate as their admission option must complete all courses in the Pre-Nursing Certificate with a grade of C or better and minimum GPA of 2.75. No more than three of the six courses required for the Pre-Nursing certificate may be repeated to meet this admission option.

2024-2025 TTC Catalog - Science and Mathematics

TTC’s Division of Science and Mathematics provides the first two years of a four-year degree as well as general education and support courses for TTC programs. Students who plan to earn a degree from a four-year college or university can take freshman- and sophomore-level transfer courses through the Associate in Science degree program or through one of the specialty 2+2 programs.

Students who are fulfilling requirements for admission into one of TTC’s Health Sciences or Nursing programs should work closely with their Pre-Nursing or Pre-Health Sciences advisor before selecting courses.

For more information, call the Division of Science and Mathematics at 843.574.6015.

General Information
The Associate in Science program is designed to prepare students for four-year (baccalaureate) majors in such fields as:

- Engineering
- Biology
- Mathematics
- Chemistry
- Physics
- Education
- Environmental Science
- Pre-Med
- Pre-Veterinary
- Physician’s Assistant
- Veterinary Medicine
- Forensic Science
- Chiropractic
- Radiation Therapy
- Industrial Management
- Medical Technology
- Cytotechnology
- Communication Sciences and Disorders
- Extracorporeal Circulation
- Health Information Administration
- Occupational Therapy
- Pharmacy
- Physical Therapy
- Other Health-Related Fields

Associate Degree

University Transfer - Associate in Science

2024-2025 TTC Catalog

Associate in Science

Associate in Science

60 Credit Hours

This University Transfer (Associate in Science) degree is designed for students planning to transfer to four-year programs and for students who wish to broaden their general knowledge. The degree stresses mathematics and natural and physical sciences.

REACH Act Statement:
Students who plan to transfer to a four-year program at a public institution in South Carolina should consider completing HIS 201 or PSC 201 to fulfill the REACH Act requirement at the transfer institution.

General Education Core Requirements (15 credits)

ENG 101 English Composition I 3
ENG 102 English Composition II 3
MAT 110 College Algebra 3
or
MAT 115 Analytical Foundations for Calculus 4
or
MAT 120 Probability and Statistics 3
or
MAT 123 Contemporary College Mathematics 3
or
MAT 155 Contemporary Mathematics 3
or
MAT 170 Algebra, Geometry and Trigonometry I 3

REQ SSC	Select from Behavioral/Social Sciences	3
REQ HUM	Select from Humanities	3

Total: 15

Major Requirements

Communication or Literature

Select one course from the following.

ENG 203 American Literature Survey 3

ENG 205 English Literature I 3
ENG 206 English Literature II 3
ENG 208 World Literature I 3
ENG 209 World Literature II 3
ENG 236 African-American Literature 3
SPC 205 Public Speaking 3
SPC 209 Interpersonal Communication 3
SPC 210 Oral Interpretation of Literature 3
THE 101 Introduction to Theater 3

Total: 3

Lab Science Requirement

Select one course from the following.

AST 101 Solar System Astronomy 4
BIO 101 Biological Science I 4
BIO 210 Anatomy and Physiology I 4
BIO 225 Microbiology 4
CHM 110 College Chemistry I 4
CHM 211 Organic Chemistry I 4
PHY 201 Physics I 4
PHY 221 University Physics I 4

Total: 4

Additional Math/Science Requirement

Take an additional 17 credit hours from the following. Courses applied to the categories above cannot be used to meet this requirement.

AST 101 Solar System Astronomy 4
AST 102 Stellar Astronomy 4
BIO 101 Biological Science I 4
BIO 102 Biological Science II 4
BIO 210 Anatomy and Physiology I 4
BIO 211 Anatomy and Physiology II 4
BIO 225 Microbiology 4
CHM 110 College Chemistry I 4
CHM 111 College Chemistry II 4
CHM 211 Organic Chemistry I 4
CHM 212 Organic Chemistry II 4
ECE 221 Introduction to Electrical Engineering I 3
ECE 222 Introduction to Electrical Engineering II 3
EGR 260 Engineering Statics 3
EGR 274 Engineering Applications of Numerical Methods 3
EGR 282 Introduction to Civil Engineering 2
EGR 285 Engineering Surveying I 3
EGR 286 Engineering Surveying II 3

EGR 295 Engineering Surveying Lab I 1
EGR 296 Engineering Surveying Lab II 1
MAT 103 Quantitative Reasoning 3
MAT 110 College Algebra 3
MAT 111 College Trigonometry 3
MAT 112 Precalculus 5
MAT 115 Analytical Foundations for Calculus 4
MAT 120 Probability and Statistics 3
MAT 123 Contemporary College Mathematics 3
MAT 130 Elementary Calculus 3
MAT 132 Discrete Mathematics 3
MAT 140 Analytic Geometry and Calculus I 4
MAT 141 Analytic Geometry and Calculus II 4
MAT 155 Contemporary Mathematics 3
MAT 170 Algebra, Geometry and Trigonometry I 3
MAT 240 Analytic Geometry and Calculus III 4
MAT 242 Differential Equations 4
PHY 201 Physics I 4
PHY 202 Physics II 4
PHY 221 University Physics I 4
PHY 222 University Physics II 4

Total: 17

Humanities/Social Sciences/Languages Requirement

Select 6 credits from the following Humanities, Behavioral/Social Sciences, and Language courses above or from the following Behavioral/Social Sciences and Languages courses below. Courses cannot be applied to more than one category.

ART 101 Art History and Appreciation 3
ART 105 Film as Art 3
ART 107 History of Early Western Art 3
ART 108 History of Western Art 3
ANT 101 General Anthropology 3
ECO 210 Macroeconomics 3
ECO 211 Microeconomics 3
ENG 203 American Literature Survey 3
ENG 205 English Literature I 3
ENG 206 English Literature II 3
ENG 208 World Literature I 3
ENG 209 World Literature II 3
ENG 214 Fiction 3
FRE 101 Elementary French I 4
FRE 102 Elementary French II 4
FRE 201 Intermediate French I 3
FRE 202 Intermediate French II 3
HIS 101 Western Civilization to 1689 3
HIS 102 Western Civilization Post 1689 3

HIS 104 World History I 3
HIS 105 World History II 3
HIS 201 American History: Discovery to 1877 3
HIS 202 American History - 1877 to Present 3
HSS 110 History of Ideas 3
MUS 105 Music Appreciation 3
PHI 101 Introduction to Philosophy 3
PHI 105 Introduction to Logic 3
PHI 110 Ethics 3
PSC 201 American Government 3
PSC 215 State and Local Government 3
PSC 220 Introduction to International Relations 3
PSY 201 General Psychology 3
PSY 203 Human Growth and Development 3
PSY 212 Abnormal Psychology 3
REL 101 Introduction to Religion 3
SOC 101 Introduction to Sociology 3
SOC 102 Marriage and the Family 3
SOC 205 Social Problems 3
SPA 101 Elementary Spanish I 4
SPA 102 Elementary Spanish II 4
SPA 201 Intermediate Spanish I 3
SPA 202 Intermediate Spanish II 3
THE 101 Introduction to Theater 3

Total: 6

General Electives

Add up all credits generated by courses in the categories above, and take enough additional credits to add up to a minimum of 60 hours. Hours beyond the number required in Communication, Social Science, Mathematics, Natural Sciences, Languages and Humanities categories will count toward the general elective hours. Up to twelve hours of nonequivalent transfer credit also may be used.
Strongly Recommended: Students should choose courses that transfer to their chosen four-year college or university. See your transfer advisor for help in selecting appropriate electives.
Exceptions: Any course listed in the Catalog as a nondegree course cannot be counted toward the twelve hours of electives.
No course can count more than once.

Total: 9-15

Admission Requirements

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

2024-2025 TTC Catalog - Course Descriptions

Accounting (ACC)
Aircraft Maintenance Technology (ACM)
Air Conditioning and Refrigeration (ACR)
Architectural Engineering Technology (AET)
Agriculture (AGR)
Allied Health Sciences (AHS)
Aircraft Manufacturing (AMF)
Automated Manufacturing Technology (AMT)
Anthropology (ANT)
Administrative Office Technology (AOT)
Art (ART)
Visual Arts (ARV)
American Sign Language (ASL)
Astronomy (AST)
Automotive Technology (AUT)
Avionics Technology (AVT)
Banking and Finance (BAF)
Biology (BIO)
Baking (BKP)
Business (BUS)
Civil Engineering Technology (CET)
Commercial Graphics (CGC)
Chemistry (CHM)
Computer Integrated Manufacturing (CIM)
College Orientation (COL)
Communication (COM)
Cosmetology (COS)
Computer Technology (CPT)
Criminal Justice (CRJ)
Culinary Arts (CUL)
Cooperative Work Experience (CWE)

Cybersecurity (CYB)
Dental Assisting (DAT)
Dental Hygiene (DHG)
Early Childhood Development (ECD)
Electrical and Computer Engineering (ECE)
Economics (ECO)
Education (EDU)
Industrial Electricity-Electronics (EEM)
Electronics Engineering Technology (EET)
Engineering Technology (EGR)
Engineering Graphics Technology (EGT)
Electronic Instrumentation Technology (EIT)
Electrical Line Worker (ELW)
Emergency Medical Technology (EMS)
English (ENG)
Environmental Technology (EVT)
Foreign Languages (FLG)
Film Production (FLM)
French (FRE)
Fire Science Technology
Geography (GEO)
Health Information Management (HIM)
History (HIS)
Hospitality and Tourism (HOS)
Horticulture (HRT)
Homeland Security Management (HSM)
Humanities (HSS)
Humanities (HUM)
Human Services (HUS)
Interdisciplinary Studies (IDS)
Industrial Engineering Technology (IET)
Industrial Mechanics (IMT)
Information Systems Technology (IST)
Interpreter Training (ITP)
Journalism (JOU)

Paralegal (LEG)
Literature (LIT)
Logistics (LOG)
Media Arts Production (MAP)
Mathematics (MAT)
Medical Assisting (MED)
Mechanical Engineering Technology (MET)
Management (MGT)
Marketing (MKT)
Medical Laboratory Technology (MLT)
Marine and Nautical Technology Non-Equivalent (MNT)
Machine Tool Technology (MTT)
Music (MUS)
Nursing (NUR)
Occupational Therapy Assistant (OTA)
Physical Education (PHE)
Philosophy (PHI)
Physics (PHY)
Political Science and Government (PSC)
Psychology (PSY)
Physical Therapist Assistant (PTH)
Quality (QAT)
Radiologic Technology (RAD)
Religion (REL)
Respiratory Care (RES)
Integrated Reading and English (RWR)
School-Age and Youth Development (SAC)
Science (SCI)
Social Sciences (SCS)
Sociology (SOC)
Spanish (SPA)
Speech (SPC)
Surgical Technology (SUR)
Truck Driving (TDR)
Theater (THE)

Transportation and Logistics (TRL)
Veterinary Technology (VET)
Welding (WLD)

2024-2025 TTC Catalog - Accounting (ACC)

ACC 001 - ACC 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for accounting course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

ACC 100 - Basic Accounting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces basic accounting principles, including the accounting cycle, bookkeeping, the debit-credit procedure, journals, ledgers, trial balances and preparing financial statements for sole proprietorships.

Prerequisite

MAT 032

or appropriate placement

Grade Type: Letter Grade

Division: Business Technology

ACC 101 - Accounting Principles I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces basic accounting procedures for analyzing, recording and summarizing financial transactions, adjusting and closing the financial records at

the end of the accounting cycle, and preparing financial statements. This course is designed to include all aspects of financial accounting at the introductory level.

Prerequisite

MAT 101

or

MAT 155

or

appropriate placement

Grade Type: Letter Grade

Restrictions: Students who receive credit for ACC 111 may not receive credit for ACC 101.

Division: Business Technology

ACC 102 - Accounting Principles II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course emphasizes managerial accounting theory and practice in basic accounting and procedures for cost accounting, budgeting, cost-volume analysis and financial statement analysis.

Prerequisite

ACC 101

or

ACC 111

Grade Type: Letter Grade

Division: Business Technology

ACC 111 - Accounting Concepts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is the study of the principles of the basic accounting functions – collecting, recording, analyzing and reporting information.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Restrictions: Students who receive credit for ACC 111 may not receive credit for ACC 101.

Division: Business Technology

ACC 112 - Organizational Accounting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is the study of financial accounting with specific emphasis on partnerships and the corporate form of organization.

Prerequisite

ACC 111

or

ACC 101

with a minimum grade of C

and

MAT 033

Grade Type: Letter Grade

Division: Business Technology

ACC 124 - Individual Tax Procedures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the basic federal income tax structure from the standpoint of the individual, including the preparation of individual income tax returns.

Prerequisite

ACC 101

or

ACC 111

Grade Type: Letter Grade

Division: Business Technology

ACC 150 - Payroll Accounting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the major tasks of payroll accounting; employment practices; federal, state and local governmental laws and regulations; internal controls; and various forms and records using both a manual and computerized approach.

Corequisite

ACC 101

or

ACC 111

Grade Type: Letter Grade

Division: Business Technology

ACC 201 - Intermediate Accounting I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course explores fundamental processes of accounting theory, including the preparation of financial statements.

Prerequisite

ACC 112

with a minimum grade of C

and

Corequisite

MAT 120

or a higher-level math course

Grade Type: Letter Grade

Division: Business Technology

ACC 202 - Intermediate Accounting II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers the application of accounting principles and concepts to account evaluation and income determination, including special problems peculiar to corporations and the analysis of financial reports.

Prerequisite

ACC 201

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

ACC 203 - Intermediate Accounting III

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the application of accounting theory to income tax allocation, and accounting for leases and pensions. Revenue recognition, financial statement analysis, cash flow statement preparation and an overview of international accounting also are covered.

Prerequisite

ACC 202

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

ACC 224 - Business Taxation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is an introduction to tax reporting requirements and taxation of the proprietorship, partnership, S Corporation, C Corporation, and limited liability company. Some form preparation is required.

Prerequisite

ACC 112

and

ACC 124

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

ACC 240 - Computerized Accounting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers using the computer to design and implement various accounting functions, including financial transactions, records, statements, reports and documents normally found in a moderately complex business.

Prerequisite

ACC 101

or

ACC 111

Grade Type: Letter Grade

Division: Business Technology

ACC 245 - Accounting Applications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces microcomputer accounting using electronic spreadsheet software.

Prerequisite

ACC 101

or

ACC 111

Grade Type: Letter Grade

Division: Business Technology

ACC 246 - Integrated Accounting Software

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course includes the use of pre-designed integrated accounting software for accounting problems.

Prerequisite

ACC 124

and

ACC 150

and

ACC 224

Grade Type: Letter Grade

Division: Business Technology

ACC 260 - Auditing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the procedures for conducting audits and investigations of various enterprises. It covers collecting data from working papers, arranging and systemizing the audit, and writing the audit report. Emphasis is placed on detailed audits, internal auditing and the auditing process.

Prerequisite

ACC 112

Grade Type: Letter Grade

Division: Business Technology

ACC 265 - Not-for-Profit Accounting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the special accounting needs of municipalities, counties, states, the federal government and governmental agencies, and other not-for-profit organizations.

Prerequisite

ACC 112

Grade Type: Letter Grade

Division: Business Technology

ACC 275 - Selected Topics in Accounting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course provides an advanced in-depth review of selected topics in accounting using case studies and individual and group problem solving.

Prerequisite

ACC 202

and

ACC 245

with a minimum grade of C

Grade Type: Letter Grade
Division: Business Technology

2024-2025 TTC Catalog - Aircraft Maintenance Technology (ACM)

ACM 101 - General Regulations

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course covers FAA regulations that pertain to the mechanics and maintenance of aircraft engines and airframes, technical standard orders, manufacturers' maintenance and parts manuals, service letters, bulletins and instructions.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 102 - Aviation Sciences

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the fundamentals of simple machines, heat dynamics, theory of flight and geometrical concepts as established for aviation applications, including basic math and algebraic operations

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 105 - Basic Aircraft Electricity

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Fall

This course covers basic electricity including AC and DC circuits, the use of electrical measuring instruments, the interpretation of electrical circuit diagrams, energy sources, and batteries and their maintenance.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 110 - Aircraft Drawings

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall

This course covers skills required to use drawings, identify symbols and schematic layouts, sketch repairs and alterations made to aircraft, and interpret graphs and charts.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 114 - Fluid Lines and Fittings

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Spring

This course covers the techniques used to identify, select, inspect, service, repair and fabricate both rigid and flexible plumbing systems.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 115 - Ground Handling and Servicing

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course covers engine starting, ground operation, aircraft movement, ground handling safety requirements and aircraft servicing procedures. Also covered are interpreting and applying aircraft weight and balance procedures.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 120 - Materials and Corrosion Control

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course covers nondestructive testing; identification and selection of aircraft hardware and materials; use of hand, power and precision measuring tools; identification and use of cleaning materials; and identification and treatment of aircraft corrosion.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 125 - Wood Structures, Coverings and Finishes

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Spring

This course covers the fundamentals of inspection, maintenance and repair of aircraft wood structures; selection, application and maintenance of aircraft fabric and fiberglass

coverings; and selection, application and maintenance of aircraft finishes, trim and lettering.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 135 - Sheet Metal and Non-metallic Structures

Lec: 1.5 **Lab:** 7.5 **Credit:** 4.0

Course Offered

Spring

This course covers the principles of sheet metal layout, bending, rivet installation, structural inspection and repair methods. Composite construction, honeycomb, plastic laminates, fiberglass and thermoplastics for aircraft applications also are included in the course.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 145 - Aircraft Welding

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Spring

This course covers the welding techniques and safety procedures used to manufacture and repair truss-type aircraft structures. It includes types of welds, setup of welding equipment, soldering techniques, brazing, gas welding and electric welding of aluminum, stainless steel, magnesium and titanium.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 150 - Assembly and Rigging

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers the methods and procedures used to maintain an aircraft in aerodynamically and structurally sound condition. Flight theory, aircraft assembly, jacking, structural alignment, rigging of fixed-wing and rotor-wing aircraft, balancing, and rigging of flight control surfaces are covered.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 155 - Aircraft Environmental Systems

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Summer

This course covers the skills required to inspect, check, service and repair aircraft heating, cooling, vapor cycle and air cycle air conditioning; pressurization, oxygen, ice and rain control; carbon monoxide detection; and fire protection systems.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 160 - Utility and Warning Systems

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course covers the principles of inspecting, troubleshooting, servicing and repairing instrument systems, communication and navigation systems, and landing gear antiskid indicating and warning systems.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 165 - Hydraulic and Pneumatic Systems

Lec: 1.5 **Lab:** 4.5 **Credit:** 3.0

Course Offered

Spring

This course covers the operating principles for aircraft hydraulic and pneumatic power systems. The theory of fluid power; identification and selection of aircraft hydraulic fluids; and servicing, troubleshooting, inspecting and repairing of hydraulic and pneumatic power systems and components are included.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 167 - Landing Gear Systems

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Summer

This course covers the skills required to perform maintenance and service requirements for aircraft landing gear systems. The inspection, servicing, repair and operational check of landing gear, retracting systems, shock struts, brakes, wheels, tires and steering systems are included.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 170 - Aircraft Electrical Systems

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall

This course covers skills required to inspect, check, service, troubleshoot and repair aircraft electrical system controls, wiring installation, switches, indicators and protective devices.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 172 - Aircraft Fuel Systems

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall

This course covers maintenance of aircraft fuel systems including troubleshooting, inspection, service and repair principles for fuel system components, pressure fuel systems, quantity indicating systems, pressure and temperature systems, dump systems, and fuel management procedures.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 174 - Airframe Inspection

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Fall

This course covers the fundamentals of airframe inspection, including the purposes, requirements and type of inspection, inspection records, and suggested methods for performing systematic inspection procedures.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 201 - Lubricating Systems

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course covers the use and classification of lubricants, oils and greases. The basic lubrication systems of opposed, radial and turbine engines are included.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 205 - Ignition and Starting Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers the theory and operation of aircraft powerplant ignition systems used on reciprocating and turbine engines, including the requirements for inspecting, servicing, repairing and/or overhauling magnetos, spark plugs, and ignition harnesses and switches.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 210 - Reciprocating Engine Overhaul

Lec: 0.5 **Lab:** 10.5 **Credit:** 4.0

Course Offered

Spring
Summer

This course covers the theory and development of the internal combustion engine used in aviation and the disassembly, inspection, service, repair and overhaul of opposed and radial aircraft engines.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 212 - Engine Installation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course covers the techniques for removal and installation of opposed and radial aircraft piston engines, including the evaluation of performance after reconditioning, testing, inspection, troubleshooting, preservation and return to service after long-term storage.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 220 - Turbine Engines

Lec: 1.5 **Lab:** 4.5 **Credit:** 3.0

Course Offered

Spring

This course covers the history, theory, construction and principles of operation of turbine engines, including removal, installation, maintenance, testing, inspection, adjustment and overhaul.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 226 - Engine Inspection

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Summer

This course covers the procedures necessary for powerplant inspection to conform to the manufacturer’s and FAA requirements.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 234 - Propellers and Components

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Spring
Summer

This course covers the theory, installation, inspection, service, maintenance, repair and principles of operation of fixed and controllable pitch propellers. This course also includes the study of propeller de-icing, anti-icing, synchronization, and selection and use of propeller lubricants for reciprocating and turbo propeller engines.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 240 - Engine Electrical Instrumentation and Fire Protection

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Spring

This course covers the skills required to inspect, check, service, troubleshoot and repair reciprocating and turbine engine starters and generators, alternators and charging systems, including wiring controls; switches; protective devices; and temperature, pressure, RPM-indicating and fire protection systems.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 245 - Powerplant Fuel Systems

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course covers inspecting, troubleshooting, servicing, repairing and overhauling of powerplant fuel metering systems, including warning indicators, pressure and rate-of-flow instruments, and carburetor overhaul.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACM 250 - Induction Cooling and Exhaust

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers the skills required to inspect, check, troubleshoot, service and repair reciprocating and turbine engine induction, cooling and exhaust systems.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Air Conditioning and Refrigeration (ACR)

ACR 001 - Air Conditioning Non-Equivalent

Lec: 0 **Lab:** * **Credit:** *

Indicates credit given for air conditioning/refrigeration course work transferred from another college for which there is no equivalent at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

ACR 106 - Basic Electricity for HVAC-R

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring

This course includes a basic study of electricity including Ohm’s Law and series and parallel circuits as they relate to heating, ventilating, air conditioning and refrigeration systems.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACR 108 - Refrigeration Fundamentals

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is an introduction to the principles of refrigeration.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACR 109 - Tools and Service Techniques II

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is an advanced study of tools and service equipment used in the installation and repair of HVAC equipment.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACR 111 - Gas Heating Principles

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Spring
Summer

This course is the study of residential and commercial gas burners and their components.

Prerequisite

ACR 106

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACR 120 - Basic Air Conditioning

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course is the study of various types of air conditioning equipment including electrical components, schematics and service to refrigeration circuits.

Prerequisite

ACR 106

and

ACR 108

and

ACR 109

Grade Type: Letter Grade
Division: Manufacturing and Maintenance

ACR 131 - Commercial Refrigeration

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring

This course is a study of maintenance and repair of commercial refrigeration systems.

Prerequisite

ACR 106
and
ACR 108
and
ACR 109
and

Corequisite

ACR 111
and
ACR 120
and
ACR 150
and
ACR 210
and
ACR 224

Grade Type: Letter Grade
Division: Manufacturing and Maintenance

ACR 150 - Basic Sheet Metal

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Summer

This course covers the tools and procedures required in the fabrication of ductwork.

Prerequisite

ACR 111

and

ACR 120

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACR 210 - Heat Pumps

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Summer

This course is a study of theory and operational principles of the heat pump.

Prerequisite

ACR 106

and

ACR 108

and

ACR 109

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

ACR 224 - Codes and Ordinances

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course covers instruction on how to reference appropriate building codes and ordinances where they apply to the installation of heating and air conditioning.

Prerequisite

ACR 111
and
ACR 120

Grade Type: Letter Grade
Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Architectural Engineering Technology (AET)

AET 111 - Architectural Computer Graphics I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course includes architectural construction, basic computer-aided design commands and creation of industry symbols and standards.

Prerequisite

EGT 152

Grade Type: Letter Grade

Division: Engineering and Construction

AET 202 - History of Architecture

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the origins, influences and aesthetics that underlie the various styles of architecture from prehistoric times to present.

Grade Type: Letter Grade

Division: Engineering and Construction

AET 221 - Architectural Computer Graphics II

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Spring

This course includes a study of CAD commands with architectural applications and routines. A complete set of working drawings of a residential or commercial building, using the computer as a drafting tool, is produced.

Prerequisite

AET 111

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Agriculture (AGR)

AGR 201 - Introduction to Sustainable Agriculture

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course provides an evaluation of the main goals of sustainable agriculture to include environmental health, economic profitability, and social and economic equity. Students will evaluate management and technological approaches and policies that influence agricultural practices.

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Allied Health Sciences (AHS)

AHS 001 - Health Sciences Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** 0

Indicates credit given for Health Sciences course work transferred from another college for which there is no equivalent at TTC. *Hours vary depending on external course.

Division: Health Sciences

AHS 101 - Introduction to Health Professions

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

This course provides a study of the health professions and the health care industry.

Grade Type: Letter Grade

Division: Health Sciences

AHS 103 - Bio-Medical Vocabulary

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

This course covers the basis of word formation, prefixes, suffixes and vocabulary used in biomedical disciplines and health sciences.

Grade Type: Letter Grade

Division: Health Sciences

AHS 104 - Medical Vocabulary-Anatomy

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces students to fundamental principles of medical terminology and includes a survey of human anatomy and physiology.

Grade Type: Letter Grade

Division: Health Sciences

AHS 113 - Head and Neck Anatomy

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall

This course provides a detailed study of the structure of the head and neck with special emphasis on structure as it pertains to the study of dental science.

Prerequisite

BIO 210

and

BIO 211

within the last five years

Grade Type: Letter Grade

Division: Health Sciences

AHS 121 - Basic Pharmacology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course covers the nature of drugs, their actions in the body and side effects.

Grade Type: Letter Grade

Division: Health Sciences

AHS 126 - Health Calculations

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall

Spring
Summer

This course is a study of the mathematical concepts needed in health science studies. It is an introduction to basic drug calculations.

Grade Type: Pass/Fail

Restrictions: Restricted to students in the PN or ADN program.

Division: Health Sciences

AHS 129 - Health Calculations II

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course is an introduction to advanced drug calculations.

Prerequisite

AHS 126

and

unsuccessful completion of the ADN level Dosage Calculation Proficiency

Grade Type: Pass/Fail

Restrictions: Restricted to students in the PN or ADN program.

Division: Health Sciences

AHS 130 - Surgical Environment for Health Professionals

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course offers a comprehensive introduction to the surgical team, basic instruction in the protocols of the operating room and aseptic techniques.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

AHS 142 - Phlebotomy

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course is a study of phlebotomy procedures utilized in clinical facilities and physicians' offices.

Vaccination series for Hepatitis B begun by second week of class

Grade Type: Letter Grade

Division: Health Sciences

AHS 170 - Fundamentals of Disease

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes a study of the general principles of disease and the disorders that affect the human body, with an emphasis on symptoms and signs routinely assessed in health care facilities.

Prerequisite or Corequisite

AHS 104

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Aircraft Manufacturing (AMF)

AMF 103 - Introduction to Aviation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is designed to introduce the student to the history and background of aviation, the role of the Federal Aviation Administration (FAA) in aviation, the nomenclature of aircraft and safety. (This course is not FAA part 147 approved.)

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 104 - Basic Aviation Sciences

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is designed to equip the student with a basic working knowledge of mathematical concepts used in aircraft construction and design, including basic math and geometric concepts, theory of flight, and simple machines. (This course is not FAA part 147 approved.)

Prerequisite

MAT 033

or

appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 109 - Aircraft Materials and Hand Tools

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers the identification and selection of materials used in aircraft construction, aircraft hardware, use of hand tools including precision measuring tools, and testing methods used in the aerospace industry. (This course is not FAA part 147 approved.)

Prerequisite

MAT 033

or

appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 110 - Corrosion Control and Sealing Applications

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Summer

This course addresses the selection of corrosion-resistant materials, application of corrosion inhibitors and application of aerospace sealants. (This course is not FAA part 147 approved.)

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 116 - Aircraft Fluid Lines

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Summer

The course covers the identification, selection, fabrication and installation practices of rigid and flexible aircraft fluid line systems, as well as the basic introduction to aircraft hydraulic systems and fluids. (This course is not FAA part 147 approved.)

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 132 - Aircraft Sheet Metal Assembly

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the principles of sheet metal layout, bending, drilling, countersinking, as well as installation and removal of fasteners. (This course is not FAA part 147 approved.)

Prerequisite

MAT 033

or

appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 137 - Aircraft Composite Structures

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the fabrication of aircraft primary and secondary members utilizing composite technology, including the lay-up, bonding, curing, trimming and machining of composite structures. (This course is not FAA part 147 approved.)

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 142 - Airframe Auxiliary Systems

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course is designed to introduce the student to the various systems that make up the infrastructure of an aircraft, to include cabin atmospheric control systems, fire protection, cockpit instrumentation and avionic systems, and warning systems. (This course is not FAA part 147 approved.)

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 147 - Aviation Electrical Systems

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Spring

This course covers the fundamentals of electricity including DC and AC circuits, design and installation practices of aircraft electrical systems including circuit components, power distribution systems, and circuit protection devices. (This course is not FAA part 147 approved.)

Prerequisite

MAT 033

or

appropriate placement

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AMF 152 - Aircraft Flight Control Systems

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course covers the design and rigging methods of aircraft primary and secondary flight control systems. (This course is not FAA part 147 approved.)

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Automated Manufacturing Technology (AMT)

AMT 105 - Robotics and Automated Control I

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Summer

This course includes assembling, testing, and repairing equipment used in automation. Concentration is on connecting, testing and evaluating automated control systems. Industrial robot systems will be explored.

Grade Type: Letter Grade

Division: Engineering and Construction

AMT 205 - Robotics and Automated Control II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers installation, testing, troubleshooting, and repairing of automated systems. Sensors, servo motors, stepper motors, robot programming and robot maintenance will be covered.

Prerequisite

AMT 105

Grade Type: Letter Grade

Division: Engineering and Construction

AMT 209 - Automation Networks-Ethernet

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course provides a study and implementation of Ethernet transmission protocol in automation networks. It includes PLC interfacing to Ethernet cabling and Ethernet

capable instrumentation. Additional topics include the OSI model and distributed BUS networking.

Prerequisite

EIT 244

or

EEM 252

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Anthropology (ANT)

ANT 101 - General Anthropology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is the study of physical and cultural anthropology. This course explores subfields of anthropology to examine primatology, human paleontology, human variation, archeology and ethnology.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Administrative Office Technology (AOT)

AOT 001 - Automated Office Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for Automated Office Technology course work transferred from another college for which there is no equivalent at TTC. *Hours vary depending on external course.

Division: Business Technology

AOT 105 - Keyboarding

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course focuses on the mastery of keyboarding and formatting principles.

Grade Type: Letter Grade

Division: Business Technology

AOT 110 - Document Formatting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course emphasizes speed, accuracy, and developing document formatting skills using keyboarding competencies.

Prerequisite

AOT 105

or

specified score on timed test; see program coordinator

Grade Type: Letter Grade

Division: Business Technology

AOT 134 - Office Communications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course develops proficiency in specialized applications of communications in the office environment.

Prerequisite

RWR 100

with a minimum grade of C

or

appropriate placement and

AOT 105

or equivalent skills

Corequisite

AOT 110

and

CPT 179

Grade Type: Letter Grade

Division: Business Technology

AOT 161 - Records Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course emphasizes information management functions and various types of information systems, technology and procedures. Computer literacy in a Windows environment is essential.

Prerequisite

AOT 105

or

AOT 110

Grade Type: Letter Grade

Division: Business Technology

AOT 212 - Medical Document Production

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course covers medical terminology and the production of documents found in medical offices. The major focus is on productivity and excellence in medical document production.

Prerequisite

AOT 110

and

CPT 179

and

AHS 104

Grade Type: Letter Grade

Division: Business Technology

AOT 251 - Administrative Systems and Procedures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers processing information in the electronic office. Emphasis is on increasing proficiency in performing a variety of office tasks by integrating previously learned knowledge and skills.

Prerequisite

AOT 110

and

AOT 134

and

AOT 161

and

CPT 179

Grade Type: Letter Grade

Division: Business Technology

AOT 252 - Medical Systems and Procedures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course emphasizes development of proficiency in integrating skills commonly performed in medical offices.

Prerequisite

AOT 110

and

AOT 134

and

CPT 179

and

AHS 104

Grade Type: Letter Grade

Division: Business Technology

AOT 256 - Office Management Skills

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course emphasizes skills relative to managing office functions with emphasis on conflict resolution, confidentiality and security of records, and supervisory/leadership skills.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Art (ART)

ART 101 - Art History and Appreciation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the history and appreciation of art, including elements and principles of the visual arts.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ART 105 - Film as Art

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the appreciation of film and covers the elements and principles of cinema with historical and contemporary examples.

Prerequisite

RWR 100

or

appropriate placement

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ART 106 - History of Photography

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

Spring
Summer

This course is a survey of the history of photography beginning with the emergence of the fixed image of the 1830s through contemporary trends. The emphasis of the class is the technical and aesthetic development of photography as a medium of historical and artistic expression.

Prerequisite

RWR 100

or appropriate placement

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ART 107 - History of Early Western Art

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a visual and historical survey of Western art from the Paleolithic Age to the Renaissance. The techniques, forms and expressive content of painting, sculpture and architecture are studied within the context of the cultural environment that produced them.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ART 108 - History of Western Art

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a visual and historical survey of Western art from the Renaissance through modern times. The techniques, forms and expressive content of painting, sculpture and architecture are studied within the context of the cultural environment that produced them.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ART 111 - Basic Drawing I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course provides an introduction to the materials and the basic techniques of drawing.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ART 112 - Basic Drawing II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers a study of the materials and basic techniques of drawing.

Prerequisite

ART 111

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ART 210 - History of Graphic Design

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course surveys graphic communication throughout history, from cave paintings to the development of printing through recent digital technology. Major emphasis is placed on the 20th century and influential trends in contemporary graphic design.

Prerequisite

RWR 100

or

appropriate placement

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ART 211 - Introduction to Painting

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is an introduction to materials and techniques of painting.

Prerequisite

ART 111

with a minimum grade of C

Corequisite

ARV 123

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ART 290 - Photojournalism

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course will cover the principles and practices of photography as a creative tool of communication. Advanced techniques, digital capture and editing will be emphasized in the course.

Prerequisite

ARV 212

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

2024-2025 TTC Catalog - Visual Arts (ARV)

ARV 110 - Computer Graphics I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the fundamentals of computer-assisted graphic design using Adobe Illustrator software. It is recommended that students enrolling in ARV 110 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 114 - Photography I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the principles, terminology, techniques, tools and materials of basic photography.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 116 - Food Photography I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the principles, terminology, techniques, tools and materials of digital food photography.

Prerequisite

ARV 212

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 121 - Design

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers basic theories, vocabulary, principles, techniques, media and problem-solving in basic design.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 123 - Composition and Color

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the investigation and application of principles and concepts of visual organization and the psychological and physical properties of color.

Prerequisite

ARV 121

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 124 - Sequential Drawing I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is the study of the basic principles, techniques and tools of creating sequential drawings for illustration and animation.

Prerequisite

ARV 125

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 125 - Drawing for Animators

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course introduces students to the basic elements of gesture drawing, quick sketch, volume, and depth techniques to capture action and attitude. Drawing for weight, force, thought, emotion and movement is stressed.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 136 - Motion Graphics I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course emphasizes techniques used to create motion graphics and visual effects. Adobe After Effects software is used.

Prerequisite

ARV 217

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 162 - Graphic Reproduction I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of the principles and practices used in print preparation and print reproduction.

Prerequisite

CGC 106

and

CGC 110

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 164 - Digital Print Production

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers digital printing processes, which include image sources, text and line art. Color management, digital printing elements and troubleshooting will also be covered.

Prerequisite

ARV 212

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 191 - Media Arts Study Abroad

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course introduces current practices in the international film and print industries. Students will develop skills in evaluating styles and trends in the media arts industry and the global marketplace through lecture, cultural preparation and study abroad.

24 credit hours in the major, departmental approval and study abroad application approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 192 - Special Topics in Media Arts I

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

This course covers special topics and issues related to techniques, technology and equipment as they emerge in the graphic communications industry.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 193 - Special Topics in Media Arts II

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

In this course students conduct research into specialized topics in studio arts and then demonstrate techniques they have learned based on that research.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 194 - Special Topics in Media Arts lll

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

This course covers the practical experiences and creation of visuals for various professional art and design areas.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 205 - Graphic Illustration

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers the tools and techniques used to create graphic illustrations for various types of print advertising.

Prerequisite or Corequisite

ARV 123

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 210 - Computer Graphics II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is an advanced computer art course that includes a study of the creation of graphic design using electronic imagery.

Prerequisite

ARV 110

and

ARV 217

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 211 - Digital Media Design

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is an introduction to the core concepts of digital media design and a survey of digital media trends. Students will produce and format raster and vector graphics for digital media.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 212 - Digital Photography

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the principles, terminology, techniques, tools and materials of basic digital photography. Images produced in this course will address the needs of the visual communication industry. It is recommended that students enrolling in ARV 212 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 213 - Lighting

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course introduces the fundamentals of photographic lighting techniques.

Prerequisite

ARV 212

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 214 - Photography II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers advanced projects in photography including studio work.

Prerequisite

ARV 114

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 216 - Lighting II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers advanced projects in photographic lighting techniques used in the studio and on location.

Prerequisite

ARV 213

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 217 - Computer Imagery

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the use of the computer as a tool to create images that address the needs of the visual communication field. Adobe Photoshop software is used. It is recommended that students enrolling in ARV 217 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 218 - Computer Imagery II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers advanced computer techniques in creating images for visual communications such as presentations, print, graphics, etc. Editorial illustration will be the focus.

Prerequisite

ARV 217

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 219 - Multimedia Techniques

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the production of current interactive multimedia. It is recommended that students enrolling in ARV 219 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 227 - Website Design I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course introduces the production of an interactive website.

Prerequisite

ARV 110

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 228 - Website Design II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers a study of advanced website design techniques culminating in an interactive website.

Prerequisite

ARV 217

and

ARV 227

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 229 - Advanced Multimedia

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers a study of advanced multimedia techniques. It is recommended that students enrolling in ARV 229 be familiar with basic computer functions and computer file management.

Prerequisite

ARV 219

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 230 - Visual Arts Business Procedures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers a study of professional practices involved in the organization and operation of businesses concerned with visual arts.

Prerequisite

RWR 100

and

MAT 032

or

appropriate test scores

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 232 - Digital Photography II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course incorporates advanced projects in digital photography including studio as well as computer lab work.

Prerequisite

ARV 212

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 233 - Portrait Photography

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of advanced portrait photography techniques from conception to final production of the project.

Prerequisite

ARV 213

with a minimum grade of C

or

Corequisite

ARV 213

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 242 - Design Thinking

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course uses human-centered techniques to solve problems in creative and innovative ways. Students will research and analyze how users interact with products and investigate solutions to improve the user interaction experience.

Prerequisite

ARV 217

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 261 - Advertising Design I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is an introduction to the advertising arts, including the principles, techniques, media, tools and skills used in the visual communication field.

Prerequisite

CGC 106

and

CGC 110

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 264 - Special Projects in Graphic Arts

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course includes an assigned advanced project from conception to final production.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 267 - Special Projects in Photography

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers advanced photography projects as assigned from concept to final production.

Departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 275 - Aerial Photography

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course will introduce technical and aesthetic skills of aerial photography and videography using a UAS (Unmanned Aerial System).

Prerequisite

ARV 212

or

MAP 126

and

departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

ARV 280 - Visual Arts Exit Portfolio

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the preparation of students' job-seeking or academic-placement portfolios. The course includes lectures, demonstrations and studio work. This course should be taken in the last semester.

Prerequisite

RWR 100

with a minimum grade of C

or

ENG 101

or

ENG 102

and

Departmental Approval for 12 credit hours in ART, ARV, or CGC courses.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

2024-2025 TTC Catalog - American Sign Language (ASL)

ASL 101 - American Sign Language I

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall

This course is a study of visual readiness and basic vocabulary, grammar features and non-manual behaviors, all focusing on receptive language skill development.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ASL 102 - American Sign Language II

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Spring

This course is a continuation of American Sign Language I, designed to expose students to additional vocabulary, grammar features and nonmanual behaviors, all focusing on conversational skills.

Prerequisite

ASL 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ASL 110 - Careers in American Sign Language

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course will provide students with a knowledge of various career options related to the field of sign language interpretation and deafness. Students will observe, research, and analyze various settings in ASL.

Prerequisite

ASL 101

and

Corequisite

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ASL 201 - American Sign Language III

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a continuation of American Sign Language II and covers additional vocabulary, grammar features, and non-manual behaviors, all focusing on conversational skills.

Prerequisite

ASL 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ASL 202 - American Sign Language IV

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course concentrates on intermediate conversational and discourse skills using American Sign Language. This course is conducted entirely using American Sign Language.

Prerequisite

ASL 201

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Astronomy (AST)

AST 101 - Solar System Astronomy

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a descriptive survey of the universe with emphasis on basic physical concepts and the objects of the solar system. Related topics of current interest are included. Laboratory exercises supplement lectures.

Prerequisite

MAT 101

or

appropriate test scores. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

AST 102 - Stellar Astronomy

Lec: 3.0 **Lab:** 4.0 **Credit:** 4.0

Course Offered

Fall
Spring

This course is a descriptive survey of the universe with emphasis on basic physical concepts and on galactic and extragalactic objects. Related topics of current interest are included. Laboratory exercises supplement lectures.

Prerequisite

AST 101

The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

2024-2025 TTC Catalog - Automotive Technology (AUT)

AUT 001 - AUT 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for automotive course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

AUT 103 - Engine Reconditioning

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring

This course is a review of engine fundamentals and overhaul procedures, including engine block preparation, cleaning, specifications, measurements with micrometers, assembly and operation.

Prerequisite

AUT 131

or

departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 111 - Brakes

Lec: 1.5 **Lab:** 4.5 **Credit:** 3.0

Course Offered

Fall

This course is a study of the fundamentals of hydraulics and brake components and their application to automotive brake systems.

Prerequisite

AUT 159

and

AUT 131

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 116 - Manual Transmission and Axle

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Fall
Summer

This course is an advanced study of manual transmissions and transaxles, including proper overhaul procedures for axles and manual transmissions and transaxles.

Prerequisite

AUT 131

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 122 - Suspension and Alignment

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring

This course is a continued study of suspension and steering systems including nonadjustable and adjustable wheel alignment angles. The student becomes familiar with the use and application of balancing and alignment equipment.

Prerequisite

AUT 131

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 131 - Electrical Systems

Lec: 1.5 **Lab:** 4.5 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the individual systems and components that form the entire automobile electrical system. The course includes starting and charging systems, ignition, engine, chassis and accessory systems, as well as instruction in the proper use of electrical schematics.

Prerequisite

AUT 133

and

AUT 159

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 133 - Electrical Fundamentals

Lec: 1.5 **Lab:** 4.5 **Credit:** 3.0

Course Offered

Fall

This course is a study of the theories of electricity including magnetism, series and parallel circuits, Ohm’s Law, and an introduction to the use of various types of electrical test equipment.

Prerequisite

RWR 100

and

MAT 033

or appropriate test scores

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 149 - Ignition and Fuel Systems

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course is a study of ignition system operation and how it relates to fuel systems for proper engine performance.

Prerequisite

AUT 131

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 152 - Automatic Transmission

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course is a basic study of power flow and hydraulics, including the study of the torque converter operation.

Prerequisite

AUT 116

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 159 - Tools, Equipment and Reference Manuals

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the proper selection, care, and use of tools and equipment, including proper use of service and reference manuals and guides.

Prerequisite

MAT 033

and

RWR 100

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AUT 241 - Automotive Air Conditioning

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course is a study in the principles of refrigeration, operation and testing procedures to determine the cause of malfunction, and servicing or repairing by approved methods. Emphasis is on special tools, equipment and safety procedures.

Prerequisite

AUT 131

or departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Avionics Technology (AVT)

AVT 101 - Basic Electricity for Avionics

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course introduces the basic theories and applications of electricity. Students will construct and analyze both DC and AC circuits using electrical measuring instruments and the interpretation of electrical circuit diagrams, including Ohm’s and Kirchhoff’s laws.

Prerequisite

MAT 101

or

MAT 155

or

appropriate test score

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 105 - Aircraft Electricity for Avionics

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring

This course is a study of the operation and maintenance of various electrically operated aircraft systems. Topics include batteries, generators, alternators, inverters, DC and AC motors, position indicating and warning systems, fire detection, and extinguishing systems and anti-skid brakes.

Prerequisite

AVT 115

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 110 - Aircraft Electronic Circuits

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of aircraft electronic circuits. Students will examine and construct basic analog electronic circuits and solve solid state device problems. Course work also includes the analysis, construction, testing and troubleshooting of analog circuits.

Prerequisite

AVT 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 115 - Aircraft Digital Circuits

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course emphasizes analysis, construction and troubleshooting of digital logic gate circuits and integrated circuits. Topics include number systems, basic logic gates, Boolean algebra, logic optimization, flip-flops, counters and registers. Circuits are modeled, constructed and tested.

Prerequisite

AVT 110

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 120 - Aviation Electronic Communications

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course includes application of electrical theory and analysis techniques to the study of aircraft transmitters and receivers, with an emphasis on mixers, IF amplifiers and detectors. Some basic FCC rules and regulations also are covered.

Prerequisite

AVT 140

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 125 - Aviation Data Communications

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course emphasizes the techniques for sending and receiving information through space. Topics include media characteristics, modulation and demodulation, signal conversions, multiplexing and demultiplexing, protocols, industry standards, networks, and error detection and correction techniques.

Prerequisite

AVT 120

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 140 - Avionics Standard Practices

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course introduces the student to electrical cables, wiring maintenance, harness fabrication, and aircraft wiring installation practices. Topics include the use of electrical tools such as soldering equipment and aircraft grade cable fabrication and testing equipment.

Prerequisite

AVT 105

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 145 - Avionics Circuit Repair

Lec: 1.5 **Lab:** 4.5 **Credit:** 3.0

Course Offered

Fall

This course develops the skills necessary to repair printed circuit boards. Topics include detailed drawings, chassis layout, drilling, reaming, punching, cutting, bending of metals, printed board circuit fabrication, wiring, soldering, harness and cable fabrication.

Prerequisite

AVT 115

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 150 - Aircraft Navigation Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers the theory and maintenance of airborne Very High Frequency (VHF) navigation equipment, including VHF Omni-directional Range (VOR) receivers, instrument landing system (ILS) equipment, long-range navigation systems, inertial navigation systems and Global Positioning Systems.

Prerequisite

AVT 115

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 155 - Aircraft Pulse Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers the operation and maintenance of air traffic control transponders and distance measuring equipment, including encoding, decoding pulse transmission, signal reception and processing.

Prerequisite

AVT 150

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 160 - Aircraft Radar Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course will apply the principles of pulse and microwave circuits typically applied to search and weather radar. Students will learn to operate and maintain weather radar and radar altimeter systems. Topics include timing, transmitter, modulator, receiver, signal processing and display circuits.

Prerequisite

AVT 155

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 165 - Avionics General Regulations

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course introduces FAA and FCC regulations that pertain to avionics technicians and the maintenance of aircraft and avionics components. Topics also include technical standard orders, manufacturers' maintenance and parts manuals, service letters, bulletins and instructions.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

AVT 170 - Avionics Program and Test Review

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Summer

This course prepares students for the FCC (Federal Communications Commission) General Radio-Telephone License Examination and NCATT (National Center for Aviation Technician Training) AET (Aircraft Electronics Technician) written exam.

All AVT courses

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Banking and Finance (BAF)

BAF 001 - Business and Finance Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for banking and finance course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

BAF 101 - Personal Finance

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the practical applications of concepts and techniques used in managing personal finances. Major areas of study include financial planning, budgeting, credit use, housing, insurance, investments and retirement planning.

Prerequisite

MAT 101

or

MAT 155

or

MAT 120

or

appropriate placement

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Biology (BIO)

BIO 001 - BIO 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for biology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division:

BIO 100 - Introductory Biology

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This general biology course introduces the principles of biology.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 101 - Biological Science I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a study of the scientific method, basic biochemistry, cell structure and function, cell physiology, cell reproduction and development, Mendelian genetics, population genetics, natural selection, evolution and ecology. Recommendation Strongly recommended prior to enrolling in the course is high school biology or high school chemistry, successful completion of a college-level lab-based science course within the last five years, or completion of BIO 100.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 102 - Biological Science II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a study of the classification of organisms and structural and functional considerations of all kingdoms (particularly major phyla as well as viruses). Vertebrate animals and vascular plants are emphasized.

Prerequisite

BIO 101

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 112 - Basic Anatomy and Physiology

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a basic integrated study of the structure and function of the major systems of the human body. Labs complement the material presented in lecture.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 115 - Basic Microbiology

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This general course in microbiology includes the study of epidemiology, ubiquity and control, and the identification of microorganisms.

High school biology or BIO 100 is recommended

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 210 - Anatomy and Physiology I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

The first part of a two-semester sequence, this comprehensive transfer course is a lecture and laboratory study with model and specimen dissections of the integrated structure and function of the human body. Basic cellular chemistry and the integumentary, skeletal, muscular, nervous and endocrine systems are presented. Cytology and histology are emphasized.

Prerequisite

High school biology or high school chemistry,

BIO 100

or successful completion of a college-level, lab-based science course. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 211 - Anatomy and Physiology II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a continuation of BIO 210 and includes the study of blood, heart, circulatory, lymphatic, respiratory, digestive, urinary and reproductive systems. Special senses, development and inheritance also are presented.

Prerequisite

BIO 210

with a minimum grade of C

The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 225 - Microbiology

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This lecture and laboratory course introduces bacteria, protozoa, rickettsia, viruses, fungi and algae. The course emphasizes the morphology, physiology, genetics, identification, cultivation and control of microbes. A survey is made of pathogenic microorganisms, their effects on the human body and the immunology of the human body.

Prerequisite

BIO 101

or

BIO 210

with a grade of C or higher

The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

BIO 238 - Musculoskeletal System Anatomy

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the muscular and skeletal systems with laboratory exercises on the bones, bone markings and the muscles, addressing their origin, insertion, innervation and action.

Prerequisite

BIO 112

or

BIO 210

and

BIO 211

Grade Type: Letter Grade

Division: Science and Mathematics

2024-2025 TTC Catalog - Baking (BKP)

BKP 101 - Introduction to Baking

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the basic techniques of baking of leavened dough and breads.

Prerequisite

CUL 104

and

CUL 105

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 102 - Introduction to Pastries

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the art of classical and modern pastry making, to include mixing methods and finishing techniques.

Prerequisite

CUL 104

and

CUL 105

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 105 - Cake Calligraphy

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course develops the hand writing techniques used on cakes and pastries to include lettering, scroll and art designs. Students will use pastry mediums made with icing, piping gel and chocolate.

Prerequisite

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 109 - Introduction to Cakes and Decorating

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course will introduce the basics of cake baking using several different types of mixing methods, ingredients and decorating techniques.

Prerequisite

BKP 101

or

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 113 - Laminated Doughs and Pastries

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is designed to develop the knowledge, skill and techniques required in the production and presentation of laminated dough and classical French Viennoiserie products such as croissants, Danish, puff pastry, doughnuts and other breakfast sweets.

Prerequisite or Corequisite

CUL 104

and

CUL 105

and

BKP 101

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 181 - Candies and Confectionaries

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course focuses on the elements of making candies and confections. Students will develop a complete understanding of all components of chocolates, sugar, pastillage and marzipan, using basic pâtisserie principles.

Prerequisite

BKP 101

and

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 182 - Artisan Breads

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the fundamental skills, concepts and techniques of artisan bread baking. Use of sponges, wild yeast, bigas and poolish will be incorporated in making authentic rustic bread. An assortment of international breads will be made, as well as breads for special occasions.

Prerequisite

BKP 101

and

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 183 - Plated Desserts

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course focuses on the elements of modern dessert production and consumption. It stresses a thorough understanding and creation of all components of plated dessert production, using basic pastry principles.

Prerequisite

BKP 181

and

BKP 210

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 184 - Savory Baking

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is designed to develop the knowledge, skills, and techniques required in the production of savory pastries with global flavors and origins. Products produced will include American and international doughs, pastries, and savory fillings.

Prerequisite or Corequisite

BKP 101

and

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 185 - Ice Cream and Frozen Desserts

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course develops advanced skills in making ice cream, sorbets, gelato and granita, and the assembly of frozen desserts. Students produce ice cream on a retail level using different types of ice cream machines and flavorings. Students also assemble tortes, bombes and holiday classics that incorporate frozen desserts.

Prerequisite

BKP 101

and

BKP 102

Grade Type: Letter Grade

Division:

BKP 210 - Advanced Cakes

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course prepares students for advanced specialty cake production.

Prerequisite

BKP 109

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 222 - Chocolate and Sugar

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of chocolate artistry and sugar work to include tempering various types of chocolate for modeling and display work, as well as molding, pulling and blowing sugar.

Prerequisite

BKP 181

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 223 - Wedding Cakes and Decorating Techniques

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the production and assembly of wedding cakes that include artisan decorating techniques and display. Students will learn to use various types of cake materials to include pulled sugar and chocolate work.

Prerequisite

BKP 210

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 224 - Jams, Jellies, Chutneys and Tarts

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course will focus on the manufacturing, packaging and marketing of various types of jams, jellies and chutneys.

Prerequisite

BKP 101

or

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 227 - Specialty Cakes

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course will focus on the formation of creative cakes using carving, decorating and various pastry techniques meant to showcase creative forms of expression. Students will prepare sculpted or designed cakes to include centerpieces, accent pieces and figurines out of multiple mediums of pastry

Prerequisite

BKP 210

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

BKP 236 - Baking and Pastry Capstone

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes capstone competencies for baking and pastry students. Students work in a retail bakery producing an assortment of baked goods while managing and selling their products to the public.

Prerequisite

BKP 183

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

2024-2025 TTC Catalog - Business (BUS)

BUS 001 - Business Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for business course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

BUS 101 - Introduction to Business

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the nature of business activity in relation to the economic society, including how a business is owned, organized, managed and controlled.

Grade Type: Letter Grade

Division: Business Technology

BUS 121 - Business Law I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of legal procedures, law and society, classifications and systems of law, the tribunals administering justice and their actions, contracts, sales, transfer of titles, rights and duties of the parties, conditions, and warranties.

Grade Type: Letter Grade

Division: Law-Related Studies

BUS 136 - Compensation and Benefits Analysis

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course offers a practical exploration of the systems, methods and procedures involved in establishing, administering and controlling compensation and benefits systems within the organization.

Grade Type: Letter Grade

Division: Business Technology

BUS 220 - Business Ethics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes an exploration of ethical issues arising in the context of doing business. Topics include employee rights and responsibilities, corporate regulations and rights, discrimination, truth in advertising, employee privacy, environmental exploitation, and free enterprise.

Grade Type: Letter Grade

Division: Business Technology

BUS 250 - Introduction to International Business

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This survey course in international business is designed to enhance the global perspective of business students. Emphasis is placed on the legal, cultural, economic and political factors faced in operating an international business.

Grade Type: Letter Grade

Division: Business Technology

BUS 268 - Special Topics in Business

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course includes research, reporting, and special activities for successful employment in the business world.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Civil Engineering Technology (CET)

CET 001 - CET 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for civil engineering technology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

CET 110 - International Residential Codes

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is the study of the use and interpretation of the international residential codes including building, plumbing, mechanical, and electrical codes.

Prerequisite

CET 120

Grade Type: Letter Grade

Division: Engineering and Construction

CET 120 - Construction Materials

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of basic materials used in construction, research of building product specifications and code requirements.

Prerequisite

MAT 033

or

Appropriate placement.

Grade Type: Letter Grade

Division: Engineering and Construction

CET 127 - Building Construction and Print Reading

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course is a study of construction methods and blueprint reading.

Grade Type: Letter Grade

Division: Engineering and Construction

CET 204 - Fundamentals of Surveying

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course is the study of surveying theory and practice; care and use of instruments; traversing procedures; and computation of closure. Students are introduced to specific methods and principles of spatial measurements and related techniques used in surveying. The course includes linear measurements, leveling, compass and transit/ theodolite, theory of errors, areas, stadia, coordinate geometry, state plane coordinates and standard map projections. Lab work consists of horizontal control including distance and angular measurements, traversing and preparation of a plat, and vertical control including the performance of a level loop.

Prerequisite

MAT 170

and

EGT 151

Grade Type: Letter Grade

Division: Engineering and Construction

CET 205 - Surveying II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

This course includes electro-optical instrumentation techniques and complex computations used in surveying. The course covers land surveying and boundary laws, public land surveys, topographic mapping, horizontal and vertical curves, lot calculations, GPS survey technology and surveying astronomy. Lab work consists of locating objects within a survey boundary, performing a boundary and topographic survey and performing a survey using GPS equipment.

Prerequisite

CET 204

Corequisite

EGT 152

and

EGR 290

Grade Type: Letter Grade

Division: Engineering and Construction

CET 215 - Soil Mechanics Fundamentals

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course is a study of soils and their engineering properties, underground investigations, classifications and foundations.

Corequisite

EGR 194

Grade Type: Letter Grade

Division: Engineering and Construction

CET 218 - Hydraulics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of hydrostatics and fluid flow, control and disposal of water, including flow through open and closed channels, weirs and orifices.

Prerequisite

EGR 290

Grade Type: Letter Grade

Division: Engineering and Construction

CET 230 - Construction Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the management of construction firms dealing with bidding, contracts, costs and labor.

Grade Type: Letter Grade

Division: Engineering and Construction

CET 245 - Cost Estimating

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course covers preparing material lists, project costs and scheduling for a construction project usingproven estimating methods.

Prerequisite

CET 127

and

MAT 033

Grade Type: Letter Grade

Division: Engineering and Construction

CET 246 - Environmental Systems Technology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course covers the design and drafting of sewer systems for subdivisions, including the sources, collection, treatment and distribution of water and sewer.

Prerequisite

CET 218

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Commercial Graphics (CGC)

CGC 001 - CGC 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for commercial graphics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Film, Media and Visual Arts

CGC 106 - Typography I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers typography, design, history, technologies and functions including terminology, letterforms, type specifications and visual hierarchy.

Prerequisite

ARV 110

and

ARV 121

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

CGC 110 - Electronic Publishing

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the fundamentals of electronic publishing and design. Adobe InDesign software is used.

Prerequisite

ARV 217

Grade Type: Letter Grade
Division: Film, Media and Visual Arts

CGC 210 - Advanced Electronic Publishing

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers a wide range of computer hardware, software and peripherals.

Prerequisite

CGC 110

and

CGC 106

with a minimum grade of C

Grade Type: Letter Grade
Division: Film, Media and Visual Arts

2024-2025 TTC Catalog - Chemistry (CHM)

CHM 001 - CHM 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for chemistry course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Science and Mathematics

CHM 100 - Introductory Chemistry

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course introduces general chemistry and principles of chemistry. Emphasis is placed on mathematical solutions and laboratory techniques. This course is recommended for students who did not take high school chemistry.

Prerequisite

MAT 101

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 105 - General Organic and Biochemistry

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a study of the fundamental principles of chemistry, including atomic and molecular structure, common substances and reactions, and introduction to organic chemistry and biochemistry. This is a terminal course designed for students who do not

intend to take additional chemistry courses. Recommendation Strongly recommended prior to enrolling in the course is high school chemistry within the last two years or CHM 100.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 110 - College Chemistry I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is the first in a sequence that includes the following topics: atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, and equilibria.

Prerequisite

or

MAT 110

or

MAT 112

or

Corequisite

MAT 115

The prerequisite for this course should have been completed within the last five years. CHM 100 or high school chemistry is strongly recommended.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 111 - College Chemistry II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course continues the study of atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, and equilibria. Other topics include kinetics, thermodynamics and electrochemistry.

Prerequisite

CHM 110

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 211 - Organic Chemistry I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is the first in a sequence of courses that includes nomenclature, structure and properties, and reaction mechanisms of organic chemistry.

Prerequisite

CHM 111

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 212 - Organic Chemistry II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a continuation of the study of nomenclature, structure, properties and reaction mechanisms of organic chemistry. Other topics include biochemistry and spectroscopy.

Prerequisite

CHM 211

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

2024-2025 TTC Catalog - Computer Integrated Manufacturing (CIM)

CIM 001 - CIM 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for computer integrated manufacturing course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - College Orientation (COL)

COL 103 - College Skills

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course may include selected topics such as career planning, study skills, stress management, tutoring, group guidance and other subjects to facilitate student success.

Grade Type: Letter Grade

Division:

2024-2025 TTC Catalog - Communication (COM)

COM 001 - COM 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for communication course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Cosmetology (COS)

COS 101 - Fundamentals of Cosmetology

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the fundamentals of professional ethics, hygiene, good grooming and salesmanship as they relate to the practices of the salon.

Grade Type: Letter Grade

Division: Business Technology

COS 106 - Facials and Makeup

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Summer

This course introduces the procedures for various skin treatments, including anatomy, chemistry and safety.

Grade Type: Letter Grade

Division: Business Technology

COS 108 - Nail Care

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of nail structure and manicuring techniques, including anatomy, chemistry and safety.

Grade Type: Letter Grade

Division: Business Technology

COS 112 - Shampoo and Rinses

Lec: 1.5 **Lab:** 7.5 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a study of procedures and safety precautions in the application of shampoo and rinses.

Grade Type: Letter Grade

Division: Business Technology

COS 114 - Hair Shaping

Lec: 0 **Lab:** 12.0 **Credit:** 4.0

Course Offered

Fall

This course introduces the techniques of hair shaping. Emphasis is given to the correct use and safety of implements, proper hair sectioning and various techniques used in hair design in relationship to body structure.

Prerequisite

COS 120

or

departmental approval

Grade Type: Letter Grade

Division: Business Technology

COS 116 - Hair Styling I

Lec: 0 **Lab:** 12.0 **Credit:** 4.0

Course Offered

Summer

This course is a study of the fundamentals of hair design, including principles, molding, pin curl techniques, safety precautions and chemistry.

Prerequisite

COS 120

approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 120 - Manikin Practice

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers cosmetology applications, including hair shaping, chemical waving, hair styling and hair coloring.

Grade Type: Letter Grade

Division: Business Technology

COS 131 - Bacteria and Other Infectious Agents

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course is an extensive study of bacterium and other infectious agents. Focus is on prevention, sanitation and safety.

Corequisite

COS 132

and

COS 133

and

COS 136

and

COS 137

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 132 - Science of Nail Technology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course is an in-depth study of the structure of the human body and the functions it performs.Focus is on nail and skin disorders with emphasis on consultations.

Corequisite

COS 131

and

COS 133

and

COS 136

and

COS 137

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 133 - Basic Procedures

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course explores the basic steps, procedures, equipment and materials for manicuring and pedicuring. Emphasis is on current trends and issues with a review of state regulations.

Corequisite

COS 131

and

COS 132

and

COS 136

and

COS 137

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 135 - The Business of Nail Technology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course explores the different types of working environments and handling of the business part ofnail care. Focus is on products and services.

Grade Type: Letter Grade

Division: Business Technology

COS 136 - Fundamentals of Artificial Nail Application

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course introduces the fundamentals of gel/powder acrylic sculpturing, repairs, maintenance, various nail wraps and tip application.

Corequisite

COS 131

and

COS 132

and

COS 133

and

COS 137

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 137 - Fundamentals of Nail Art

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course introduces the basic techniques used in nail art design.

Corequisite

COS 131

and

COS 132

and

COS 133

and

COS 136

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 151 - Dermatology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is the study of the structure, functions, conditions and disorders of the skin.

Corequisite

COS 156

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 156 - Fundamentals of Massage

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Fall
Summer

This course introduces the theory, preparation, manipulations and safety measures of massage.

Corequisite

COS 151

and

COS 172

or

departmental approval

Grade Type: Letter Grade

Division: Business Technology

COS 158 - Facial Treatments

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Fall
Summer

This course introduces the procedures for various skin treatments and safety.

Prerequisite

COS 151

and

COS 172

and

COS 156

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 160 - Electric Current Facial Treatments

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Spring

This course introduces types of current, purpose, procedures, safety and equipment used in facial treatments.

Prerequisite

COS 172

or

departmental approval

Grade Type: Letter Grade

Division: Business Technology

COS 162 - Hair Removal

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Spring

This course is a study of methods, procedures and safety used during hair removal services.

Prerequisite

COS 151

and

COS 172

Grade Type: Letter Grade

Division: Business Technology

COS 164 - Basic Makeup and Application

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Spring

This course introduces makeup application, including purpose, effects, supplies, implements, preparation, procedures and safety.

Corequisite

COS 172

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 167 - Professional Practices for Estheticians

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Spring

This course covers job preparation techniques such as interviewing skills and resume development as well as employment opportunities within the esthetics field. Topics also include payment structure, maintaining a license and state requirements for opening and operating a business.

Grade Type: Letter Grade

Division: Business Technology

COS 172 - Infection Control for Estheticians

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Summer

This course includes infection control procedures regulated by the State Board of Cosmetology. Topics include levels of infection control, regulations, proper storage of implements, glove use and guidelines on preventing cross contamination and maintaining a safe, clean work area.

Corequisite

COS 151

and

COS 156

Grade Type: Letter Grade

Division: Business Technology

COS 173 - Human Anatomy for Estheticians

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course examines the basics of human cells, bones, muscles, nerves and blood vessels as they pertain to esthetics. The course explores how the human body's systems affect the skin and the impact of skin treatments on the body.

Grade Type: Letter Grade

Division: Business Technology

COS 201 - Salon Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of salon management, including rules, regulations, and codes governing the practice of cosmetology.

Grade Type: Letter Grade

Division: Business Technology

COS 206 - Chemical Hair Waving

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of methods of permanently waving the hair, including product types, chemistry and safety.

Prerequisite

COS 120

or

departmental approval

Grade Type: Letter Grade

Division: Business Technology

COS 210 - Hair Coloring

Lec: 0.5 **Lab:** 7.5 **Credit:** 3.0

Course Offered

Spring

This course is the study of the science and art of coloring the hair, including classification, methods, procedures, safety precautions and chemistry.

Prerequisite

COS 120

Grade Type: Letter Grade

Division: Public, Professional and Legal Studies

COS 220 - Cosmetology Clinical Practice I

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Spring

This course is an integration of cosmetology skills in a simulated salon environment.

Prerequisite

COS 120

Grade Type: Letter Grade

Division: Business Technology

COS 221 - Facial Practice I

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Fall
Summer

This course is an integration of massage and facial skills in a simulated salon environment.

Prerequisite

COS 172

and

COS 156

Corequisite

COS 158

Grade Type: Letter Grade

Division: Business Technology

COS 222 - Cosmetology Clinical Practice II

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall

This course is an integration of cosmetology skills in a salon environment to provide additional practical hours in skill development.

Prerequisite

COS 120

or approval of program coordinator

Grade Type: Letter Grade

Division: Business Technology

COS 223 - Facial Practice II

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Spring

This course provides for the integration of corrective and preservation facials, massage and makeup application skills in a simulated salon environment.

Prerequisite

COS 221

Corequisite

COS 160

and

COS 162

Grade Type: Letter Grade

Division: Business Technology

COS 224 - Nail Practice I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is an integration of manicuring and pedicuring skills in a supervised simulated salon environment.

Prerequisite

COS 131

or

departmental approval

Grade Type: Letter Grade

Division: Business Technology

COS 227 - Facial Practice III

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Spring

This course provides for integration of corrective preservation facials, massage, makeup, back and body treatments, and waxing in a simulated salon environment. This course will also prepare the candidate for the Licensing Practical Exam.

Prerequisite

COS 162

and

COS 221

and

COS 223

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Computer Technology (CPT)

CPT 001 - Computer Technology Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for computer course work transferred from another college for which there is no equivalent course at TTC. *Hours vary.

Division: Business Technology

CPT 101 - Introduction to Computers

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers basic computer history, theory and applications, including word processing, spreadsheets, databases, and the operating system.

Prerequisite

RWR 100

and

MAT 033

Grade Type: Letter Grade

Division: Business Technology

CPT 114 - Computers and Programming

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces computer concepts and programming. Topics include basic concepts of computer architecture, files, memory and input/output devices. Programming is done in a modern high-level language.

Prerequisite

MAT 033

or

MAT 101

or

MAT 102

or

MAT 110

or

MAT 120

or

MAT 155

Grade Type: Letter Grade

Restrictions: Restrictions apply for Programming majors. See advisor.

Division: Business Technology

CPT 162 - Introduction to Web Page Publishing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the fundamentals of web page design and implementation.

Prerequisite

MAT 033

or

MAT 101

or

MAT 102

or

MAT 110

or

MAT 120

or

MAT 155

Grade Type: Letter Grade

Division: Business Technology

CPT 167 - Introduction to Programming Logic

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces foundation concepts in structured programming. Problem solving and algorithm development through pseudo code and flowcharting is emphasized. Solutions are developed using the basic control structures of sequential, decision and iteration.

Prerequisite

CPT 114

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

CPT 172 - Microcomputer Database

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces microcomputer database concepts, including generating reports from databases and creating, maintaining and modifying databases using Microsoft Access.

Prerequisite

MAT 033

or

MAT 101
or
MAT 102
or
MAT 110
or
MAT 120
or
MAT 155

Grade Type: Letter Grade
Division: Business Technology

CPT 174 - Microcomputer Spreadsheets

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the use of spreadsheet software on the microcomputer. Topics include creating, editing, using formulas, using functions and producing graphs using Microsoft Excel.

Prerequisite

MAT 033
or
MAT 101
or
MAT 102
or
MAT 110
or
MAT 120
or
MAT 155

Grade Type: Letter Grade
Division: Business Technology

CPT 179 - Microcomputer Word Processing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces microcomputer word processing. Topics include creating, editing, formatting and printing documents using Microsoft Word.

Grade Type: Letter Grade

Division: Business Technology

CPT 180 - Shell Scripting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of shell scripting and emphasizes the designing, coding, and testing of scripts. This course will cover shell scripting from both the command line and the Graphical User Interface.

Prerequisite

MAT 033

and

CPT 114

or

IST 165

or

IST 190

Grade Type: Letter Grade

Division: Business Technology

CPT 187 - Object-Oriented Logic and Design

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This is a study in the planning and implementation of object-oriented programs.

Prerequisite

CPT 167

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

CPT 202 - SQL Programming I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is an introduction to the writing of basic Structured Query Language (SQL) used in creating tables, inserting data, retrieving data, and manipulating data from database.

Prerequisite

CPT 242

Grade Type: Letter Grade

Division: Business Technology

CPT 208 - Special Topics in Computer Technology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course focuses on changes in computer technology.

Departmental Approval

Grade Type: Letter Grade

Division: Business Technology

CPT 209 - Computer Systems Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course examines the methods and procedures used in maintaining microcomputer systems. Topics include hardware and software installation, configuration, operations and troubleshooting. This course examines the interaction of people, systems and computers. Strategic management issues unique to the information technology environment are discussed. Specialties include remote support technician, help desk technician, call center technician specialist, representative, depot technician and bench technician. Emphasis will be placed on computer design, operating systems, internetworking of devices and general information security concepts. This course will cover learning objectives associated with the CompTIA A+ certification exam. Emphasis will be placed on individual hardware components, BIOS, firmware, troubleshooting computer design, operating systems, internetworking of devices and general information security concepts.

Grade Type: Letter Grade

Division: Business Technology

CPT 210 - Computer Resource Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course examines the interaction of people, systems and computers. Strategic management issues unique to the information technology environment are discussed. This course will cover learning objectives associated with CompTIA A+ core certification test. Specialties include remote support technician, help desk technician, call center technician specialist, representative, depot technician and bench technician. Emphasis will be placed on computer design, operating systems, internetworking of devices and general information security concepts.

Grade Type: Letter Grade

Division: Business Technology

CPT 237 - Advanced Java Programming

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of advanced topics of the Java programming language by building on a basic knowledge of the Java language. Topics covered will include multi-reading, swing classes, swing event models, advanced layout managers, the JavaBean component model, network programming and server-side programming.

Prerequisite

CPT 187

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

CPT 238 - Internet Scripting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of Internet programming including the syntax of scripting languages and Internet programming concepts and examines topics related to client-side scripting language programming as well as introducing topics related to server-side scripting.

Prerequisite

IST 239

with a minimum grade of "C."

Grade Type: Letter Grade

Division: Business Technology

CPT 242 - Database

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

Summer

This course introduces database models and the fundamentals of database design. Topics include database structure, database processing and application programs that access a database. Upon completion of this course the student will be able to 1) demonstrate the fundamental skills needed to successfully design and implement a database, 2) demonstrate a thorough understanding of database concepts and technologies, and 3) be able to use and understand SQL commands.

Grade Type: Letter Grade

Division: Business Technology

CPT 244 - Data Structures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course examines data structures widely used in programming. Topics include linked lists, stacks, queues, trees, and sorting and searching techniques.

Prerequisite

CPT 237

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

CPT 262 - Advanced Web Page Publishing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of advanced techniques in web page design and implementation.

Prerequisite

CPT 162

and

CPT 114

Grade Type: Letter Grade

Division: Business Technology

CPT 264 - Systems and Procedures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers system analysis, design, development and implementation.

Prerequisite

CPT 114

and

CPT 162

and

CPT 242

and

IST 166

and

ENG 101

Grade Type: Letter Grade

Division: Business Technology

CPT 270 - Advanced Microcomputer Applications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course emphasizes the integration of popular microcomputer software packages using advanced concepts in microcomputer applications software.

Prerequisite

CPT 174

and

CPT 179

and

CPT 290

Grade Type: Letter Grade

Division: Business Technology

CPT 275 - Computer Technology Senior Project

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes the design, development, testing, and implementation of an instructor approved project. Students will work in teams to design and develop a project that incorporates the knowledge they have gained at TTC. Depending on the project, the areas of knowledge may include project management, web development, database design and implementation, file processing, backend server code, scripting and user interface creation.

Prerequisite

ENG 101

or

ENG 102

and

CPT 202

and

CPT 237

and

IST 239

and

Corequisite

CPT 238

or

CPT 283

or

IST 235

Grade Type: Letter Grade

Division: Business Technology

CPT 282 - Information Systems Security

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is the study of the protection of information and equipment in computer systems. Topics include all aspects of systems protection, including physical security, hardware, software and communications security. Students will learn about risk assessment, business continuity planning, privacy and regulatory compliance. Addresses technical, legal and ethical issues.

Grade Type: Letter Grade

Division: Business Technology

CPT 283 - PHP Programming I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is an introduction to the PHP programming language and will cover topics related to the syntax of PHP language and how PHP can be used to design and develop dynamic, database-driven web pages.

Prerequisite

CPT 162

and

CPT 114

Grade Type: Letter Grade

Division: Business Technology

CPT 290 - Microcomputer Multimedia Concepts and Applications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course will cover introductory microcomputer multimedia concepts and applications. The course will utilize text, graphics, animation, sound, video, and various multimedia applications in the design, development and creation of multimedia presentations.

Grade Type: Letter Grade

Division: Business Technology

CPT 297 - Big Data Analytics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course introduces big data concepts and the fundamentals of providing efficient analytics for extremely large datasets.

Grade Type: Letter Grade

Division: Business Technology

CPT 298 - Introduction to Software as a Service (SaaS)

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course introduces Software as a Service (SaaS) as it pertains to cloud computing technologies. Topics include installing various environment configurations on multiple computing system platforms and developing and deploying software applications in a cloud environment.

Prerequisite

CPT 180

and

Corequisite

IST 190

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Criminal Justice (CRJ)

CRJ 001 - CRJ 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for criminal justice course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Law-Related Studies

CRJ 101 - Introduction to Criminal Justice

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes an overview of the functions and responsibilities of agencies involved in the administration of justice to include police organizations, court systems, correctional systems and juvenile justice agencies.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 102 - Introduction to Security

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes an introduction to the philosophy and application of security. The protection of personnel, facilities and other assets, as well as administrative, legal and technical problems of loss prevention and control are analyzed.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 110 - Police Patrol

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course provides an understanding of the duties, extent of authority and responsibilities of the uniformed patrol officer. Special emphasis is placed on patrol function; line activities, including traffic control and investigation; community relations; vice control; tactical units; civil disturbances; and preventive patrol.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 115 - Criminal Law I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the development of criminal law in America. The basic elements of specific criminal offenses, criminal defenses and various legal principles upon which criminal law is established are reviewed.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 120 - Constitutional Law

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers an analysis of the historical development of the U.S. Constitution and the relationship of rights contained therein to the state and the individual. The application of the Bill of Rights to federal and state systems is examined.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 125 - Criminology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of the various theories of criminal causation and control, the identification of criminal typologies, and the reaction of society to crime and criminals.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 126 - Criminal Justice Research Methods

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course introduces students to the language and methods of research used by criminal justice practitioners and policy-makers. The course includes the basics of research design, data gathering and interpretation of findings in criminal justice.

Prerequisite

MAT 033

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 130 - Police Administration

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is a study of the organization, administration and management of law enforcement agencies.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 140 - Criminal Justice Report Writing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the proper preparation and retention of criminal justice records and reports, including observational skills, formatting, and the value of accurate, complete and selective written articulation of information and observations.

Prerequisite

RWR 100

or

appropriate placement

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 202 - Criminalistics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course introduces investigative techniques stressing the examination of questioned documents, fingerprint techniques, polygraph examinations, firearms identifications, pathology, toxicology, ballistics and clandestine operations.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 210 - The Juvenile and the Law

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course is a study of the juvenile justice system. This process is examined from initial custody to disposition, both from a historical and modern perspective.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 220 - The Judicial Process

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course includes an overview of the law-making function of the court, the growth of common law, the structure and organization of the courts, court processes and procedures involved in criminal and civil cases, and the question of reform for the administration of justice.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 222 - Ethics in Criminal Justice

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of the application of ethical theories to the criminal justice profession.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 224 - Police Community Relations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the importance of two-way communication between the criminal justice system and the community to foster a working relationship to control crime. A variety of topics are studied, including citizen involvement in crime prevention and police officer interpersonal relations.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 230 - Criminal Investigation I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is the study of the fundamentals of interviewing witnesses and interrogating suspects. Different methods of conducting crime scene searches and methods used investigating various crimes are studied.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 232 - White Collar Crime Investigation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of non-violent property crimes including cybercrime, wire and bank fraud, securities fraud, and state property crimes. The course focuses on identifying types of white-collar crimes and associated evidence, investigative techniques, case preparation and presentation.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 233 - Cyber Crimes and the Law

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course examines the problem of crime involving computers and the strategies used for identification, investigation and prosecution. Topics include computer crime offenses, computer fundamentals, security technologies, investigative methods, the internet, state and federal computer crime statutes, management of electronic evidence, and crime prevention techniques.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 235 - Practical Crime Scene Investigations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is the study of practical hands-on instruction in methodology and policies for the identification, interpretation, collection, packaging, preservation and chain of custody of crime scenes and evidence taken from crime scenes.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 236 - Criminal Evidence

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of the established rules of evidence from arrest to release in the administration of criminal justice.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 242 - Correctional Systems

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course introduces aspects of the correctional function in criminal justice, including organization, process, procedure and clients incarcerated and on conditional release.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 243 - Criminal Profiling

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course involves the analysis and interpretation of evidence discovered at the crime scene that might be useful in understanding the perpetrator's motivations and behavior to assist law enforcement in developing a criminal profile for identification, apprehension and prosecution.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 244 - Probation, Pardon and Parole

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the development, organization, operation and results of systems of probation and parole as substitutes for incarceration. The philosophy and methods of treatment of offenders and the operational problems and activities of the probation/parole officer are studied in the course.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 246 - Special Problems in Criminal Justice

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course examines issues within the criminal justice community and profession which are of special concern to students and practitioners because of timeliness, local concern, legalistic or other dynamic factors.

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 250 - Criminal Justice Internship I

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Summer

This course includes practical experience in a criminal justice or private security setting.

Departmental approval

Grade Type: Letter Grade

Division: Law-Related Studies

CRJ 281 - Police Science I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes but is not limited to the following topics: introduction to criminal law, courts, crimes and procedures, first amendment, basic patrol operations, and traffic law. After successful completion of this course, students will be eligible to complete the SCCJA certification exam for these instructional blocks

Grade Type: Letter Grade

Restrictions: Departmental approval

Division: Law-Related Studies

CRJ 282 - Police Science II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes but is not limited to the following topics: domestic violence, juvenile procedures, and victimology. After successful completion of this course, students will be eligible to complete the SCCJA certification exam for these instructional blocks.

Grade Type: Letter Grade

Restrictions: Departmental approval

Division: Law-Related Studies

CRJ 283 - Police Science III

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes but is not limited to the following topics: report writing, interviewing, officer survival, drug enforcement, and crime scene and physical evidence. After successful completion of this course, students will be eligible to complete the SCCJA certification exam for these instructional blocks.

Grade Type: Letter Grade

Restrictions: Departmental approval

Division: Law-Related Studies

CRJ 284 - Police Science IV

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes but is not limited to the following topics: basic collision investigation, uniform traffic ticket, vehicle tactics, and mind armor. After successful completion of this course, students will be eligible to complete the SCCJA certification exam for these instructional blocks.

Grade Type: Letter Grade

Restrictions: Departmental approval

Division: Law-Related Studies

2024-2025 TTC Catalog - Culinary Arts (CUL)

CUL 001 - Culinary Non-equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for culinary course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 103 - Nutrition

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of general nutritional needs of the life cycle, including carbohydrates, proteins, fats, vitamins, and minerals. Practical applications for the food service professional are emphasized.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 104 - Introduction to Culinary Arts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This survey course introduces students to the world of culinary arts. Students will be exposed to culinary history, culinary organizations and branches of the culinary field that offer different opportunities in the profession.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 105 - Kitchen Fundamentals

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces students to the foundations of sanitation, basic measurements, equipment identification and basic costing.

Prerequisite or Corequisite

CUL 104

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 112 - Classical Foundations of Cooking

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces classical cooking techniques that include stock, soup and sauce making. Students apply moist and dry heat classical cooking techniques while working with grains, vegetables and proteins.

Prerequisite

CUL 104

and

CUL 105

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 118 - Nutritional Cooking

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course focuses on the principles of food nutrition (based on ADA standards) and international food pyramids. Students will create menus, prepare and cook meals while adhering to the principles of a balanced diet.

Prerequisite

CUL 112

or

BKP 101

or

BKP 102

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 123 - American Bistro

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

In this course students apply cooking techniques and theories while producing soups, salads, sandwiches and specials in a fast-paced delivery system.

Prerequisite

CUL 112

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 128 - Culinary Management and Human Resources

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is the study of the theories and concepts of management with an emphasis on human relations skills and managerial techniques as applied to chefs and kitchen

managers. Legal aspects of the industry are introduced as part of human resources and executive team responsibilities.

Prerequisite

CUL 104

and

CUL 105

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 129 - Storeroom and Purchasing

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course combines purchasing theory with practical experience in the storeroom. Students develop skills in purchasing, developing requisitions, food transfers, inventory and organization of the storeroom.

Prerequisite

CUL 104

and

CUL 105

and

Corequisite

MAT 032

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 171 - Food and Beverage Controls

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the principles and procedures involved in an effective food and beverage control system including standards determination, operating budgets, cost-

volume-profit analysis, income and cost control, menu pricing, labor cost control, and computer applications related to these concepts.

Prerequisite

CUL 129

and

MAT 155

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 178 - Farm to Plate

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course explores traditional farming methods used throughout South Carolina and around the world. Students will study heirloom varieties of vegetables as well as animal husbandry and feeds. Students will use farm products in traditional classical cooking methods and techniques.

Prerequisite

CUL 123

and

CUL 118

or

Departmental approval.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 180 - French Regional Cuisines

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is the study of the French regional cuisines of Normandy, Brittany, Savoy and Provence with an emphasis on service, standards, language, wines and beverage service. This course also includes cooking from select regions including Alsace-

Lorraine, Bordeaux, the Southwest and Paris. Students also study and produce classical French cuisine.

Prerequisite

CUL 118

and

CUL 123

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 186 - Mediterranean Cuisine

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is the study of the cuisine of the Mediterranean and the Mediterranean Dietary Pyramid, including Spain, France, Italy, Middle East and North Africa. Emphasis is on the culture, cooking methods, food products and beverages of the various countries.

Prerequisite

CUL 118

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 187 - Cuisines of Asia

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the basic influences, ingredients, utensils, and cooking techniques of various Asian cuisines. Students will identify the influence of Asian cuisines on western cooking and the development of East meets West cooking.

Prerequisite

CUL 118

and

CUL 123

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 188 - Italian Regional Cuisine

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the basic influences, ingredients, utensils and cooking techniques of various regions of Italy and her cuisine. Students will identify historical influences that have played an important part in shaping the food and culture of the country.

Prerequisite

CUL 123

and

CUL 118

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 215 - Cuisine of the Americas

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the cuisine of the culinary regions of the United States, South and Central America, Mexico and the Caribbean. Students are exposed through lecture and practical hands-on experience to the history, cultural influences and types of food eaten in this area of the world. Each class will offer the student an opportunity to work in various cooking stations that represent cold and hot food preparation.

Prerequisite

CUL 118

and

CUL 123

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 216 - International Cuisine

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the cuisines of the world, including Asia, Europe, the Mediterranean and Africa. Students are exposed to history, cultural influences and common recipes. Each class will offer the student an opportunity to work in various cooking stations that represent cold and hot food preparation.

Prerequisite

CUL 118

and

CUL 123

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 230 - Therapeutic Nutrition

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This is an introductory course to the study of diet therapy of an individual with a health problem, the etiology of the disease, and the necessary diet modifications to aid in restoring the individual's health.

Prerequisite

CUL 103

and

CUL 118

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 236 - Restaurant Capstone

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

Spring

This course includes capstone competencies for culinary arts students. Students manage and work multiple stations, develop food specials, cost menus, take inventories, produce a menu analysis, and expedite food from the kitchen to the dining room in the student-run restaurant.

Prerequisite

CUL 215

and

CUL 216

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 238 - Culinary Marketing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of marketing strategies to promote the chef, menu and restaurant or food service establishment.

Prerequisite

CUL 128

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 242 - Vegetarian and Vegan Cuisine

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is the study of vegetarian and vegan cuisines. Students will prepare recipes and develop menus that represent specific dietary requirements of these cuisines to include lacto, lacto-ovo, micro- and macrobiotic. Natural dietary supplements are included as part of a healthy eating regimen that excludes animal proteins.

Prerequisite

CUL 112

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 277 - SCWE in Culinary Arts

Lec: 0 **Lab:** 12.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course integrates culinary skills at an approved worksite related to the culinary industry.

Departmental approval

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 280 - Butchery and Charcuterie

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course develops advanced skills in butchering of meat and poultry products. Students will learn to turn lesser-used cuts into artisan charcuteries, sausages and cured meats, and to break down primal cuts of beef, lamb, veal, pork and wild game, turning pieces into retail or restaurants cuts.

Prerequisite

CUL 112

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 297 - Advanced Stagerie

Lec: 0 **Lab:** 12.0 **Credit:** 3.0

This advanced externship provides students the opportunity to work in a restaurant with a selected chef.

Departmental approval

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

CUL 299 - Special Topics in Culinary Studies

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course focuses on a specific purpose for, issue in or type of cooking such as regional world cuisines, food history or current trends in culinary or baking pastry arts.

Departmental approval

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

2024-2025 TTC Catalog - Cooperative Work Experience (CWE)

CWE 111 - Cooperative Work Experience

Lec: 0 **Lab:** 5.0 **Credit:** 1.0

First experience cooperative work experience for 1 credit. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 112 - Cooperative Work Experience

Lec: 0 **Lab:** 10.0 **Credit:** 2.0

First experience cooperative work experience for 2 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 113 - Cooperative Work Experience

Lec: 0 **Lab:** 15.0 **Credit:** 3.0

First experience cooperative work experience for 3 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 114 - Cooperative Work Experience

Lec: 0 **Lab:** 20.0 **Credit:** 4.0

First experience cooperative work experience for 4 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 121 - Cooperative Work Experience

Lec: 0 **Lab:** 5.0 **Credit:** 1.0

Second experience cooperative work experience for 1 credit. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 122 - Cooperative Work Experience

Lec: 0 **Lab:** 10.0 **Credit:** 2.0

Second experience cooperative work experience for 2 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 123 - Cooperative Work Experience

Lec: 0 **Lab:** 15.0 **Credit:** 3.0

Second experience cooperative work experience for 3 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 124 - Cooperative Work Experience

Lec: 0 **Lab:** 20.0 **Credit:** 4.0

Second experience cooperative work experience for 4 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE 133 - Cooperative Work Experience

Lec: 0 **Lab:** 15.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

Third experience cooperative work experience for 3 credits. Contact your academic advisor to discuss prerequisites and approvals.

Department Approval

Grade Type: Letter Grade

Division: Select a division

CWE 213 - Cooperative Work Experience

Lec: 0 **Lab:** 15.0 **Credit:** 3.0

Fourth experience cooperative work experience for 3 credits. Contact your academic advisor to discuss prerequisites and approvals.

Departmental approval

Grade Type: Letter Grade

Division:

CWE - Cooperative Work Experience

Lec: 0 **Lab:** * **Credit:** *

Credit for Cooperative Work Experience is available in various programs and for 1-4 credits. Students can participate in CWE more than once for credit. Contact your academic advisor to discuss prerequisites and enrollment approvals. * Credits are awarded based on the number of contact hours students work, based on a 1:5 credit-to-contact ratio.

Grade Type: Letter Grade

Division: Select a division

2024-2025 TTC Catalog - Cybersecurity (CYB)

CYB 201 - Cybersecurity Operations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the concepts and technologies related to Security Operations Center teams that detect and respond to cybersecurity threats. Topics cover an in-depth review of security concepts and monitoring, host-based and network intrusion analysis, and security policies and procedures.

Prerequisite

IST 166

and

IST 190

and

IST 293

Grade Type: Letter Grade

Division: Business Technology

CYB 269 - Digital Forensics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course examines advanced technical aspects of digital computer evidence to include detection, collection, identification, and preservation. Emphasis is placed on specific tools and methods for extracting deleted or destroyed computer-related evidence.

Prerequisite

IST 190

or

IST 293

Grade Type: Letter Grade

Division: Business Technology

CYB 285 - Cybersecurity Capstone

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course integrates the knowledge and skills gained through previous coursework and experience to develop and implement risk management, vulnerability assessment, threat analysis, and incident response plans.

Prerequisite

CYB 269

and

IST 191

and

IST 291

and

IST 294

Grade Type: Letter Grade

Division: Business Technology

CYB 286 - CYB 286 Cybersecurity Internship I

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course provides students with entry-level work experience in a cybersecurity operations support role. Students will learn skills in their field and develop a job skills portfolio.

Prerequisite

IST 166

and
IST 293

Grade Type: Letter Grade
Division: Business Technology

2024-2025 TTC Catalog - Dental Assisting (DAT)

DAT 113 - Dental Materials

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course is a study of physical and chemical properties of matter and identification, characteristics, and manipulation of dental materials.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Assisting majors

Division: Health Sciences

DAT 114 - Dental Emergencies and Medicine

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course provides a study of various medical conditions and medications, including the management of a medically compromised dental patient.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Assisting majors

Division: Health Sciences

DAT 115 - Ethics and Professionalism

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall

This course introduces a cursory history of dental assisting; professional associations; scope of service in dentistry; and ethical, legal and professional considerations. The state dental practice set is reviewed.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Assisting majors

Division: Health Sciences

DAT 118 - Dental Morphology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course emphasizes the development, eruption and individual characteristics of each tooth and surrounding structures.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Assisting majors

Division: Health Sciences

DAT 121 - Dental Health Education

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course defines the responsibilities of the dental assistant in individual and community dental health education with emphasis on the etiology of dental disease, methods for prevention, and principles of nutrition in relationship to oral health and preventive dentistry.

Prerequisite

DAT 154

Grade Type: Letter Grade

Division: Health Sciences

DAT 122 - Dental Office Management

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course provides a study of the business aspects of a dental office.

Prerequisite

DAT 154

Grade Type: Letter Grade

Division: Health Sciences

DAT 123 - Oral Medicine-Oral Biology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course presents a basic study of oral pathology, pharmacology, nutrition and common emergencies as related to the role of the dental assistant. The basic study of the dental sciences and terminology are included in this course.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Assisting majors

Division: Health Sciences

DAT 127 - Dental Radiography

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course provides the fundamental background and theory for the safe and effective use of X-radiation in dentistry. It encompasses the history of X-rays, production and uses of radiation, radiographic film, exposure factors, interpretation of radiographs and radiation hygiene.

Prerequisite

DAT 118

Grade Type: Letter Grade

Division: Health Sciences

DAT 154 - Clinical Procedures I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course includes preparation to assist a dentist efficiently in four-handed dentistry. Emphasis is on the names and functions of all dental instruments, the principles involved in their use and the assistant's role in dental instrumentation.

Physical examination, major medical insurance and Hepatitis B vaccine series

Grade Type: Letter Grade

Restrictions: Restricted to Dental Assisting majors

Division: Health Sciences

DAT 177 - Dental Office Experience

Lec: 1.0 **Lab:** 18.0 **Credit:** 7.0

Course Offered

Spring

This course consists of practice in the dental office or clinic with rotation of assignments to encompass experiences in office management and clinical experience in all areas of dentistry.

Prerequisite

DAT 127

and

DAT 154

and

DAT 185

Grade Type: Letter Grade

Division: Health Sciences

DAT 185 - Dental Specialties

Lec: 2.0 **Lab:** 9.0 **Credit:** 5.0

Course Offered

Fall

This course covers the equipment and procedures related to dental specialties used in clinical experiences.

Prerequisite

DAT 154

and

CPR certification, Hepatitis B vaccine series

Grade Type: Letter Grade
Division: Health Sciences

2024-2025 TTC Catalog - Dental Hygiene (DHG)

DHG 115 - Medical and Dental Emergencies

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course provides a study of the various medical/dental emergencies and appropriate treatment measures. Additionally, it includes managing medically compromised dental patients, and provides for CPR certification.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Hygiene majors

Division: Health Sciences

DHG 121 - Dental Radiography

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course provides the application of the principles of radiology with emphasis on exposing, processing, mounting, evaluating and interpreting dental radiographs. Radiation safety is stressed.

Prerequisite

DHG 125

and

DHG 154

Grade Type: Letter Grade

Division: Health Sciences

DHG 125 - Tooth Morphology and Histology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course covers the embryogenesis and histology of the head and neck structures with primary emphasis on the oral cavity. The formation, eruption patterns and morphology of primary and permanent dentitions are studied.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Hygiene majors

Division: Health Sciences

DHG 140 - General and Oral Pathology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course provides a correlation of basic pathologic principles to disease processes in the oral cavity. The role of the dental hygienist in early disease detection is emphasized. Diagnosis, treatment and prognosis of diseases affecting the head and neck also are discussed.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Hygiene majors

Division: Health Sciences

DHG 141 - Periodontology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course presents a study of the principles, etiologies, classifications and treatments of periodontal disease with emphasis on the role of the dental hygienist.

Corequisite

DHG 165

Grade Type: Letter Grade

Division: Health Sciences

DHG 143 - Dental Pharmacology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course provides a study of drugs used in dentistry. It emphasizes the physical and chemical properties of drugs, dosages and therapeutic effects, methods of administration, and indications and contraindications for the use of drugs. A study of dental anesthetics is included.

Prerequisite

DHG 165

Grade Type: Letter Grade

Division: Health Sciences

DHG 154 - Pre-Clinical Dental Hygiene

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of the basic principles of infection control, instrumentation, instrument design, and fundamental skills necessary to perform in subsequent dental hygiene courses.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Hygiene majors

Division: Health Sciences

DHG 165 - Clinical Dental Hygiene I

Lec: 2.0 **Lab:** 9.0 **Credit:** 5.0

Course Offered

Spring

This course introduces the clinical setting for application of dental hygiene skills for patient care.

Prerequisite

DHG 154

and

CPR certification, major medical insurance and Hepatitis B vaccine series

Grade Type: Letter Grade

Division: Health Sciences

DHG 175 - Clinical Dental Hygiene II

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

Course Offered

Summer

This course provides for the continued development of skills necessary to perform dental hygiene care. Emphasis is placed on treatment of the patient with disabilities, total patient care and treatment planning.

Prerequisite

DHG 165

Grade Type: Letter Grade

Division: Health Sciences

DHG 230 - Public Health Dentistry

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides a study of oral health and the prevention of oral disease in a community. Emphasis is on assessment of community groups and dental health needs, and on planning, implementation and evaluation of community programs. Nutrition and research also are studied.

Prerequisite

DHG 165

Grade Type: Letter Grade

Division: Health Sciences

DHG 231 - Dental Health Education

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall

This course provides an opportunity for the dental hygiene student to present and apply dental health information to various community groups and organizations. Project implementation and evaluation are included.

Prerequisite

DHG 175

and

DHG 230

Grade Type: Letter Grade

Division: Health Sciences

DHG 239 - Dental Assisting for the DHG

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall

This course introduces the dental assisting role and responsibilities. Emphasis is on four-handed dentistry, the use and manipulation of dental materials, and office management.

Grade Type: Letter Grade

Restrictions: Restricted to Dental Hygiene majors

Division: Health Sciences

DHG 241 - Integrated Dental Hygiene I

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Summer

This course provides for the integration of basic and dental hygiene sciences with current concepts of clinical dental hygiene practice.

Prerequisite

DHG 165

Grade Type: Letter Grade

Division: Health Sciences

DHG 243 - Nutrition and Dental Health

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course provides a study of nutrients, their nature, source and utilization. Emphasis is placed on the relationship between diet and oral health. Oral manifestations of nutritional deficiencies are also studied.

Prerequisite

DHG 154

Grade Type: Letter Grade

Division: Health Sciences

DHG 255 - Clinical Dental Hygiene III

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

Course Offered

Fall

This course provides for the development of proficiency in the clinical dental hygiene setting with emphasis on the implementation of treatment plans to meet the individual patient’s oral health needs.

Prerequisite

DHG 175

Grade Type: Letter Grade

Division: Health Sciences

DHG 265 - Clinical Dental Hygiene IV

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

Course Offered

Spring

This course permits refinement of clinical techniques and skills, technology and current procedural practices of the dental hygienist with emphasis on self-evaluation and quality assurance.

Prerequisite

DHG 255

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Early Childhood Development (ECD)

ECD 101 - Introduction to Early Childhood

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course gives an overview of growth and development, developmentally appropriate curriculum, positive guidance techniques, regulations, health, safety and nutrition standards. Course content highlights the importance of professionalism, family cultural values and practical applications based on historical and theoretical models in early care and education.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 102 - Growth and Development I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is an extensive study of philosophies and theories of growth and development of infants and toddlers. Focus is on total development of the child, with emphasis on physical, social, emotional, cognitive and nutritional areas. Developmental tasks and appropriate activities are explored in the course.

Prerequisite

ECD 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 105 - Guidance-Classroom Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is an overview of developmentally appropriate, effective guidance and classroom management techniques for the teacher of young children. A positive, proactive approach is stressed.

Prerequisite

ECD 101

and

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 106 - Observation of Young Children

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

In this course, a variety of observation skills and techniques for the purposes of achieving program goals and objectives, providing for individual needs, guiding children, and designing environments are covered. Focus is on the practical and appropriate use of these skills and techniques.

Prerequisite

ECD 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 107 - Exceptional Children

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course includes an overview of children with special needs and their families. Emphasis is on the prevalence of disorders, treatment modalities, community resources serving exceptional children, the teacher's role in mainstreaming and early identification, and federal legislation affecting exceptional children.

Prerequisite

ECD 101

or

departmental approval

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 108 - Family and Community Relations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is an overview of techniques and materials promoting effective family/program partnerships to foster positive child development. Emphasis is on availability and accessibility of community resources, and on developing appropriate communication skills.

Prerequisite

ECD 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 109 - Administration and Supervision

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the role and responsibilities of an early childhood administrator. Special focus is on monetary matters; space management; curriculum; health and food services; and relations among the public, staff and parents.

Prerequisite

ECD 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 131 - Language Arts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of methods and materials in age-appropriate language experiences. Opportunities are provided to develop listening, speaking, prereading and prewriting skills through planning, implementation, and evaluation of media, methods, techniques and equipment. Methods to select, evaluate and present children's literature are included.

Prerequisite

ECD 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 132 - Creative Experiences

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

In this course, the importance of creativity and independence in creative expression is stressed. A variety of age-appropriate media, methods, techniques and equipment are utilized. Students plan, implement and evaluate instructional activities.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 133 - Science and Math Concepts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course includes an overview of pre-number and science concepts that are developmentally appropriate for young children. Emphasis is on the planning, implementation and evaluation of developmentally appropriate activities utilizing a variety of methods and materials.

Prerequisite

ECD 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 135 - Health, Safety and Nutrition

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course covers a review of health and safety practices recommended for child care and includes information on common diseases and health problems. Certification preparation is provided in pediatric safety, CPR and First Aid. Guidelines and information on nutrition and developmentally appropriate activities also are studied in the course.

Prerequisite

ECD 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 138 - Movement and Music for Children

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of criteria for selecting and implementing appropriate experiences to support the physical and musical development of young children. Emphasis is on the selection of materials, equipment and related design of indoor and outdoor environments.

Prerequisite

ECD 101

and

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 140 - Early Childhood Practicum I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course includes experiences and opportunities to apply early childhood principles and practices in observing and participating in the care of young children under the

supervision of the teacher. Various types of child development facilities are used in the course. (Basic)

Prerequisite

ECD 133

or

ECD 255

and

ECD 132

or

EDU 205

and

Corequisite

ECD 131

or

SAC 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 200 - Curriculum Issues in Infant and Toddler Development

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course includes a focus on infant and toddler care. Emphasis is on brain development and its implications for caring for infants and toddlers. The student looks at planning and teaching strategies as they relate to child development, curriculum and environment.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 201 - Principles of Ethics and Leadership in Early Care

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course includes an overview of historical views on leadership and issues and challenges of leadership in early care and education. Emphasis is on current trends and issues. This course also reviews ethical principles as they relate to children, families, colleagues, the community and society.

Prerequisite

ENG 101

and

27 ECD credits, to include ECD 102 and ECD 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 203 - Growth and Development II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is an in-depth study of preschool children growing and developing in today's world. Focus is on total development of the child with emphasis on physical, social, emotional, cognitive and nutritional areas of development. Developmental tasks and appropriate activities are explored.

Prerequisite

ECD 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 205 - Socialization and Group Care of Infants and Toddlers

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course involves the study of socialization and group care of infants and toddlers. Emphasis is on guidance and management; understanding behavior, temperament, the importance of routines, primary care and continuity of care; and examining the elements of quality environments.

Prerequisite

ECD 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 207 - Inclusive Care for Infants and Toddlers

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course provides an overview of the field of infants and toddlers with special needs. Emphasis will be placed on instructional strategies, adaptations, environment, inclusion, etiology, federal legislation, family partnership, multicultural considerations and optimal development.

Prerequisite

ECD 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 237 - Methods and Materials

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes an overview of developmentally appropriate methods and materials for planning, implementing and evaluating environments. Emphasis is on integrating divergent activities in each curriculum area.

Prerequisite

ECD 131

and

ECD 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 239 - Assessment and Program Planning

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is designed to help students use assessment and evaluation tools to identify strengths and weaknesses of programs and provide developmentally appropriate practices for young children.

Prerequisite

ECD 203

and

MAT 033

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 243 - Supervised Field Experience I

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Spring

This course includes emphasis on planning, implementing and evaluating scheduled programs, age-appropriate methods, materials, activities and environments of early childhood principles and practices.

27 ECD credits, to include ECD 140 and ECD 203 with a minimum grade of C

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 246 - Designing Quality Infant and Toddler Environments

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the elements of quality environments for children, prenatal through three years. Focus is on understanding quality design, materials/equipment used in the construction and /or remodeling of infant/toddler spaces that promote the optimal development of infants and toddlers.

Prerequisite

ECD 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 252 - Diversity Issues in Early Care and Education

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course meets the growing need for students in early care and education to learn how to interact with people who are different from them. It also allows students to examine and appreciate the differences that exist because of diversity from race, language, ethnicity, age and socioeconomic levels.

Prerequisite

ECD 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 254 - Facilitation and Environmental Management for Early Childhood Special Education

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of how the environment for infants, toddlers, preschoolers, and young children with special needs can be manipulated to enhance their development, social needs, and expression of creativity and independence.

Prerequisite

ECD 107

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 255 - Activity Therapy for Early Childhood Special Education

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course teaches students to provide assistance in planning and organizing activities focusing on play in a developmentally appropriate environment for children with special needs.

Prerequisite

ECD 107

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 256 - Counseling Techniques for Early Childhood Special Education

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

In this course, students learn to collaborate with professionals, families and students to achieve various outcomes that are of particular interest to those individuals involved in the education and care of children with developmental delays.

Prerequisite

ECD 107

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 259 - Behavior Management for Special Needs

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is an overview of understanding and managing challenging behavior in school and child care settings. It includes common causes of problem behaviors and treatment for attention disorders, making changes in the classroom, and administrative steps to help children with challenging behaviors.

Prerequisite

ECD 107

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ECD 260 - Methods of Teaching Special Needs Students

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course focuses on developmentally appropriate methods for teaching special needs students. Emphasis is on planning, implementation and evaluation of developmentally appropriate activities utilizing a variety of methods and materials.

Prerequisite

ECD 107

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Electrical and Computer Engineering (ECE)

ECE 205 - Electrical and Computer Lab I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers basic test and measurement instrumentation, basic electrical components and circuits, and technical writing using word processing.

Prerequisite or Corequisite

ECE 221

Grade Type: Letter Grade

Division: Engineering and Construction

ECE 221 - Introduction to Electrical Engineering I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the basic concepts of circuit analysis, applying fundamental laws and principles, resistor circuits, and first- and second-order linear circuits in the time domain using calculus-based solutions where applicable.

Prerequisite

EGR 269

and

MAT 141

Grade Type: Letter Grade

Division: Engineering and Construction

ECE 222 - Introduction to Electrical Engineering II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers sinusoidal steady-state analysis of AC circuits, complex frequency analysis, Fourier series analysis and Laplace transforms.

Prerequisite

ECE 221

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Economics (ECO)

ECO 001 - Economics Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for economics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

ECO 210 - Macroeconomics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the study of fundamental principles and policies of a modern economy including markets and prices, national income accounting, cycles, employment theory and fiscal policy, banking and monetary controls, and the government’s role in economic decisions and growth.

Prerequisite

MAT 155

or

MAT 101

or

Corequisite

MAT 120

or

appropriate placement

Grade Type: Letter Grade

Division: Business Technology

ECO 211 - Microeconomics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the study of the behavior of households and firms, including supply and demand, elasticity, price/input in different market structures, pricing of resources, regulations, and comparative advantage and trade.

Prerequisite

MAT 101

or

MAT 155

or

Corequisite

MAT 120

or

appropriate placement

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Education (EDU)

EDU 201 - Classroom Inquiry with Technology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course explores teaching as a data-driven, reflective practice. Within the parameters of an approved articulation agreement, this course may transfer to an accredited education program at a comprehensive four-year college or university.

Prerequisite

MAT 033

and

ECD 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

EDU 205 - Play and Early Learning

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides students with a basic understanding of theory and practice related to children's play and early learning in family, community, and educational settings. Within the parameters of an approved articulation agreement, this course may transfer to an accredited Education program at a comprehensive four-year college or university.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

EDU 230 - Schools in Communities

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Summer

This course provides students with a basic understanding of the social, political and historical aspects of diverse educational institutions in American culture with an emphasis on families, schools and communities. Within the parameters of an approved articulation agreement, this course may transfer to an accredited education program at a comprehensive four-year college or university.

Prerequisite

ECD 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

EDU 241 - Learners and Diversity

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of lifespan development and learning with an emphasis on individual and group diversity. The students are required to participate in a field experience. Within the parameters of an approved articulation agreement, this course may transfer to an accredited education program at a comprehensive four-year college or university.

Prerequisite

ECD 203

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Industrial Electricity-Electronics (EEM)

EEM 001 - EEM 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for industrial electricity/electronics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

EEM 105 - Basic Electricity

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course is a survey of basic electrical principals, circuits, and measurements.

Prerequisite

MAT 033

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 107 - Industrial Computer Techniques

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Summer

This course is an introduction to microcomputers. Topics include definitions of computer types, hardware and software structure, movement of data, and applications of microcomputers. Emphasis will be placed on industry-standard software for the electrical and automated technologies industry.

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 113 - DC Circuits I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is an introduction to the study of atomic theory related to electronics and circuit theory. It covers electrical parameters and units, Ohm's Law, Kirchhoff's voltage and current laws, power and energy. It also includes complex circuits and DC instruments. Students will construct and test circuits.

Prerequisite

RWR 100

and

MAT 170

or appropriate test scores

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 114 - DC Circuits II

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a continuation of the study of atomic theory related to more complex electronics and circuit theory. It includes advanced electrical parameters and units, Ohm's Law applications, additional Kirchhoff's voltage and current laws, along with new power and energy applications. Topics also include complex circuits and DC instruments. Students will construct and test circuits.

Prerequisite

EEM 113

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 119 - AC Circuits I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is an introduction to the study of the characteristics of alternating current and voltage in resistors, capacitors and inductors. It includes study of series, parallel and complex circuits. Students will construct and test circuits.

Prerequisite

EEM 114

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 120 - AC Circuits II

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Spring
Summer

This course is a continuation of the study of the characteristics of alternating current and voltage in resistors, capacitors and inductors in more complex applications. New series, parallel and complex circuits are covered with emphasis on hands-on construction. Students will construct and test circuits.

Prerequisite

EEM 119

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 129 - Solid State Devices I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is an introduction to the study of semiconductor theory and common solid state devices. Students will construct and test circuits.

Prerequisite

EEM 120

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 130 - Solid State Devices II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a continuation of the study of semiconductor theory and common solid state devices with new and more complex applications. Students will construct and test circuits.

Prerequisite

EEM 129

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 138 - National Electrical Code I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Spring
Summer

This course is an introduction to the study of the National Electrical Code and is based on the latest codes as published by the National Fire and Protection Association (NFPA).

Prerequisite

EEM 164

and

EEM 168

and

EEM 174

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 139 - National Electrical Code II

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Spring
Summer

This course is a continuation of the study of the National Electrical Code. Students will be required to identify violations of the Code in working applications and will demonstrate a working knowledge of the latest codes. Topics are based on the latest codes as published by the National Fire and Protection Association (NFPA).

Prerequisite

EEM 138

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 151 - Motor Controls I

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring

This course is an introduction to motor controls, including a study of the various control devices and wiring used in industrial processes.

Prerequisite

EEM 219

or

Corequisite

EET 113

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 163 - Residential Wiring I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is an introduction to the study of wiring methods and practices used in residential applications.

Prerequisite

RWR 032

and

MAT 033

or appropriate test scores

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 164 - Residential Wiring II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a study of advanced wiring methods and practices used in residential applications.

Prerequisite

EEM 163

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 167 - Commercial-Industrial Wiring I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Summer

This course is an introduction to the study of wiring methods and practices in commercial and industrial applications.

Prerequisite

RWR 100

and

MAT 033

and

EEM 173

or

EEM 174

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 168 - Commercial-Industrial Wiring II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Summer

This course is a continuation of the study of advanced wiring methods and more complex practices in commercial and industrial applications.

Prerequisite

EEM 167

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 173 - Electrical Installation I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is an introduction to the study of electrical wiring techniques commonly used in commercial, industrial and residential applications. Emphasis will be placed on compliance with the National Electrical Code.

Prerequisite

RWR 032

and

MAT 033

or appropriate test scores

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 174 - Electrical Installation II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is the study of advanced electrical wiring techniques commonly used in more complex commercial, industrial and residential applications. Emphasis will be placed on compliance with the National Electrical Code.

Prerequisite

EEM 173

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 218 - AC DC Machines with Electrical Codes I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Summer

This course is an introduction to the study of AC and DC machines to include operational theory, applications and construction. Relevant sections of the National Electrical Code will also be covered.

Prerequisite

EEM 120

or

EET 113

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 219 - AC DC Machines with Electrical Codes II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Summer

This course is a continuation of the study of AC and DC machines to include complex and in-depth construction and application of operational theory. Relevant sections of the National Electrical Code will also be covered.

Prerequisite

EEM 218

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 221 - DC AC Drives

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers the principles of operation and application of DC drives and AC drives.

Prerequisite

EEM 114

or

Corequisite

EET 113

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 251 - Programmable Controllers

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces programmable control systems with emphasis on basic programming techniques. A variety of input/output devices and their applications are covered.

Prerequisite

EET 113

or

EEM 120

and

EEM 107

or

EGR 110

Grade Type: Letter Grade

Division: Engineering and Construction

EEM 252 - Programmable Controllers Applications

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers the application of programmable controller theories and operation procedures. Topics such as interfacing, data manipulation and report generation are covered. Programmable controller projects are constructed, operated and tested.

Prerequisite

EEM 251

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Electronics Engineering Technology (EET)

EET 001 - EET 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for electronics engineering technology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

EET 113 - Electrical Circuits I

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Spring

This course is a study of direct and alternating currents, covering resistance and impedance in series, parallel and series-parallel circuits using Ohm’s Law, Kirchhoff’s laws, and basic circuit theorems. Circuits are analyzed using mathematics and verified using electrical instruments.

Prerequisite

EGR 104

or departmental approval

Corequisite

MAT 110

or

MAT 170

Grade Type: Letter Grade

Division: Engineering and Construction

EET 131 - Active Devices

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course is a study of semiconductor theory and principles, diodes and diode circuits, transistors and transistor circuits, and other components. Circuits are modeled, constructed and tested.

Prerequisite

EET 113

Grade Type: Letter Grade

Division: Engineering and Construction

EET 210 - Digital Integrated Circuits

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course is a study of digital integrated circuits, including multiplexers, demultiplexers, buffers, decoders, encoders, converters, memory devices, and programmable logic devices. Circuits are modeled, constructed, and tested.

Prerequisite

EGR 104

or

EEM 114

Grade Type: Letter Grade

Division: Engineering and Construction

EET 212 - Industrial Robotics

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is the study of the systems design, modeling and simulation, signals and control systems, AI, sensor integration, vision systems, robot programming, and principles of mechatronics.

Prerequisite

AMT 105

Grade Type: Letter Grade

Division: Engineering and Construction

EET 274 - Selected Topics in Electrical-Electronics Technology

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a current study of current topics related to electrical electronics engineering technology. Technical aspects of practical applications are discussed.

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Engineering Technology (EGR)

EGR 001 - EGR 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for engineering technology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

EGR 104 - Engineering Technology Foundations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This problem-based course introduces the student to fundamental concepts of electrical, mechanical, thermal, fluids, optical and material systems related to engineering technology. Workplace readiness skills such as laboratory safety, communications and teamwork are integrated into the course.

Prerequisite

MAT 033

or

appropriate test score

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 110 - Introduction to Computer Environment

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course provides an overview of computer hardware, available software, operating systems and applications.

Prerequisite

MAT 033

or

appropriate placement

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 170 - Engineering Materials

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of properties, material behaviors and applications.

Prerequisite

MAT 170

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 175 - Manufacturing Processes

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course includes processes, alternatives and operations in the manufacturing environment. Key elements of manufacturing processes such as quality, materials management, personnel issues and industrial economics will be covered.

Prerequisite

ENG 101

and

MAT 170

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 194 - Statics and Strength of Materials

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Summer

This course covers external and internal forces in structures and/or machines, including conditions of equilibrium, systems of force, moments of inertia and friction. It also covers stress – strain relationships in materials.

Prerequisite

EGR 290

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 202 - Introduction to Engineering Programming

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is an introduction to algorithm development and the use of a high-level programming language to solve engineering problems.

Prerequisite

MAT 102

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 234 - Control Principles

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of fundamental control process, analogous system of units, first and second order response, the fundamentals computer control systems, and applications of a typical process.

Prerequisite

EGR 290

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 255 - Engineering Technology Senior Systems Project

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring
Summer

This course includes an instructor-approved project which is designed, specified, constructed and tested.

Prerequisite

EET 131

and

and

EGR 234

and

MET 237

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 260 - Engineering Statics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course introduces the principles of engineering mechanics as applied to forces and force systems. The techniques of vector mathematics are employed.

Prerequisite

MAT 140

and

PHY 221

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 262 - Engineering Dynamics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course introduces the principles of engineering as applied to kinematics and kinetics of particles and rigid bodies. The techniques of vector mathematics are employed.

Prerequisite

EGR 260

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 269 - Engineering Disciplines and Skills

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring

This course assists students in selecting an engineering field while studying professionalism, ethics, safety, communications, and career planning. Computers are used to study spreadsheets, obtain graphical solutions to problems, perform on-line tasks, and work on a team design project and report.

Prerequisite

MAT 102

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 273 - Problem Solving for Engineers

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course covers basic problem-solving techniques as applied to the engineering profession.

Prerequisite

ECE 221

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 274 - Engineering Applications of Numerical Methods

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a calculus-based study of the application of numerical methods to the solution of engineering problems. Techniques include iterative solution techniques, methods for solving systems of equations, numerical integration, differentiation and graphical analysis.

Prerequisite

ECE 221

and

MAT 141

or

PHY 221

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 275 - Introduction to Engineering/Computer Graphics

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of basic graphical concepts needed for engineering applications.

Prerequisite or Corequisite

MAT 110

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 281 - Introduction to Algorithmic Design I

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Fall

This course integrates a presentation of concepts of object-oriented programming, including program structures, objects, code, and programming styles.

Prerequisite

EGR 269

and

Corequisite

MAT 141

with a "C" or better. and

Prerequisite or Corequisite

PHY 221

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 282 - Introduction to Civil Engineering

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course covers the engineering process from problem formulation to creative design through practical solution of civil engineering problems.

Prerequisite

MAT 111

or

MAT 112

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 283 - Introduction to Algorithmic Design II

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Spring

This course is a study of rigorous development of algorithms and computer programs, including elementary data structures.

Prerequisite

EGR 281

with a "C" or better.

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 285 - Engineering Surveying I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course covers linear measurements, leveling, compass and transit/theodolite, theory of errors, areas, stadia, coordinate geometry, state plane coordinates and standard map projections. In addition, it covers latitudes and departures, construction field control, legal aspects of land surveying and public land surveys.

Prerequisite

EGR 275

and

EGR 282

and

MAT 140

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 286 - Engineering Surveying II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course covers land surveying and boundary laws, public land surveys, topographic mapping, horizontal and vertical curves, lot calculations, and engineering astronomy. In addition, it covers geospatial representation that includes topographic mapping, advanced adjustments using least squares procedures, map projection, state plan coordinator, astronomic control for mapping, Global Positioning Systems (GPS), Geographic Information Systems (GIS) and remote sensing.

Prerequisite

EGR 285

and

MAT 140

Corequisite

EGR 296

Grade Type: Letter Grade

Division:

EGR 290 - Numerical Applications in Engineering Technology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course provides the fundamental concepts of numerical problem solving for engineering technology. Techniques and methods are employed to develop a problem solving methodology using the principles of algebra and trigonometry.

Prerequisite

MAT 170

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 295 - Engineering Surveying Lab I

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall

This course covers horizontal control, including distance and angular measurements; traversing and preparation of a plat; and vertical control including the performance of a level loop. It includes application of principles introduced in EGR 285.

Corequisite

EGR 285

Grade Type: Letter Grade

Division: Engineering and Construction

EGR 296 - Engineering Surveying Lab II

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Spring

This course covers locating buildings and other objects within a boundary survey, performing a topographic survey, preparing a topographic map and staking out a horizontal curve. In addition, it covers Global Positioning Systems (GPS) mapping controls, Geographic Information Systems (GIS) applications and application of principles introduced in EGR 286.

Corequisite

EGR 286

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Engineering Graphics Technology (EGT)

EGT 001 - EGT 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for engineering graphics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

EGT 106 - Print Reading and Sketching

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course covers the interpretation of basic engineering drawings and sketching techniques for making multiview pictorial representations.

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 115 - Engineering Graphics II

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Spring

This course in engineering graphics science includes additional drawing techniques for industrial applications. Mechanical detail and assembly drawings will be emphasized. Topics include section views, descriptive geometry, developments, threads and fasteners.

Prerequisite

EGR 275

or

EGT 151

with a minimum grade of C

Prerequisite or Corequisite

EGT 152

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 130 - Geometric Dimensioning and Tolerancing Applications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course covers interpreting, calculating tolerances, inspecting, computing geometrics of rejected parts and analyzing the concepts of geometric control.

Prerequisite

EGT 151

or

EGR 275

or

departmental approval

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 151 - Introduction to CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the operation of a computer aided drafting system. The course includes interaction with a CAD station to produce technical drawings.

Prerequisite or Corequisite

MAT 101

or

MAT 155

or

MAT 170

or appropriate placement

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 152 - Fundamentals of CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes a related series of problems and exercises utilizing the computer graphics station as a drafting tool.

Prerequisite

EGR 275

or

EGT 151

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 172 - Electronic Drafting

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course provides a familiarization with a system to create electronic schematics and wiring diagrams.

Prerequisite

EGT 152

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 220 - Structural and Piping Application

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This advanced drawing course covers structural steel and process piping applications.

Prerequisite

EGT 152

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 245 - Principles of Parametric CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is the study of 3-D product and machine design utilizing state-of-the-art parametric design software.

Prerequisite

EGT 151

or

departmental approval

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 251 - Principles of CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course includes the additional use of CAD software for production of technical drawings and related documentation.

Prerequisite

EGT 151

or

departmental approval

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 252 - Advanced CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers advanced concepts of CAD software and applications. The primary focus is on generating 3-D wireframe, surfaced and solid models.

Prerequisite

EGT 152

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 257 - Advanced Civil CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the advanced use of CAD in the field of civil engineering. Students will complete drawing projects using concepts related to planning, data capture and project design.

Prerequisite

EGT 152

or

departmental approval

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 258 - Applications of CAD

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is the study of the use of CAD within the different drafting and design fields. Students will complete CAD projects for various fields which may include architectural, civil, mechanical, HVAC, and electrical. Application of parametric modeling skills learned from this and prerequisite courses are to be demonstrated in assigned projects.

Prerequisite

EGT 251

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 261 - Model Design and Simulation

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course includes the application of fundamental methods for designing 3D parametric models that can be easily modified to fit changing requirements. Students also learn techniques to test the movement of parts within an assembly and simulation procedures to test model strength and integrity.

Prerequisite

EGT 258

Grade Type: Letter Grade

Division: Engineering and Construction

EGT 265 - CAD/CAM Applications

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course uses all available CAD skills to produce advanced drawings. The use of solids modeling, CAM and desktop publishing application packages are studied.

Prerequisite

EGT 151

or

departmental approval

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Electronic Instrumentation Technology (EIT)

EIT 110 - Principles of Instrumentation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of various types of instruments and gauges used by industrial facilities. Basic principles of pneumatic, electronic and mechanically operated devices are covered.

Prerequisite

EET 113

or Departmental Approval.

Grade Type: Letter Grade

Division: Engineering and Construction

EIT 244 - Computers and PLCs in Instrumentation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers interfacing pneumatic and electronic process control instrumentation with computers and programmable logic controllers by using various transducers. Programming and installation are stressed.

Prerequisite

EIT 110

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Electrical Line Worker (ELW)

ELW 110 - Electrical Computations

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course introduces the fundamental applications of mathematics that are used by an electrical line technician. Topics include whole numbers, fractions, decimals, powers, roots, simple electrical formulas and usage of a scientific calculator.

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 111 - Introduction to Electrical Line Worker

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces basic principles of electricity, safety standards and basic line worker tools. Topics include electrical distribution systems and components, line installation and maintenance applications.

Prerequisite

ELW 110

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 112 - Introduction to Electricity

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronics majors. Topics include basic DC and AC principles, components and operation of test equipment.

Prerequisite

ELW 110

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 113 - National Electrical Safety Code

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course covers the use of the current National Electrical Safety Code. Topics include terms, basic components meters, overhead and underground line construction and maintenance procedures.

Prerequisite

ELW 112

and

Student must be an employee of a utility company.

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 114 - Overhead Line Construction I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces the basics of overhead power line construction. Topics include safe work habits, protective equipment and pole-climbing techniques.

Prerequisite

ELW 111

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 115 - Overhead Line Construction II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course introduces overhead line maintenance, construction, and framing as well as the safe working practices and procedures for working off a pole using hooks.

Prerequisite

ELW 114

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 116 - Overhead Line Construction III

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course introduces the phase of energized line work, including the use of aerial lifts and the application of rubber protective equipment.

Prerequisite

ELW 115

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 117 - Overhead Line Construction IV

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course introduces regulators, transformer connections, reclosures, fuses, lightning arresters and troubleshooting of primary and secondary outages.

Prerequisite

ELW 116

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 211 - Underground Line Construction I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course introduces underground line distribution systems, including terminators, elbows, transformers, underground installations and safety practices.

Prerequisite

ELW 111

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 212 - Underground Line Construction II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers troubleshooting of underground systems and associated equipment including fault locating, single and three-phase enclosures, and overhead/underground terminations.

Prerequisite

ELW 211

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 221 - Advanced Line Construction

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course introduces advanced line construction concepts, including worksite safety practices, excavations, digital paneling for regulators and reclosure, lightning protection and traffic control devices.

Prerequisite

ELW 117

and

ELW 212

Grade Type: Letter Grade

Division: Engineering and Construction

ELW 231 - Electrical Power Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers the basic principles of electrical power systems, including transmission lines, generator and transformer characteristics, fault detection and correction, interpretation of line diagrams, and performance of per unit calculations for circuit performance analysis.

Prerequisite

ELW 112

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Emergency Medical Technology (EMS)

EMS 102 - Principles of Emergency Medical Care I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a study of emergency medical care procedures for the emergency medical technician. It is designed to cover topics related to the preparation of an emergency medical technician, the human body and body systems, EMS operations and patient assessment.

Grade Type: Letter Grade

Restrictions: Restricted to EMT majors.

Division: Health Sciences

EMS 103 - Principles of Emergency Medical Care II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of emergency medical care procedures for the emergency medical technician. It is designed to cover topics related to identification and treatment of medical, respiratory, cardiovascular, trauma and special population emergencies.

Prerequisite

EMS 102

Corequisite

EMS 212

Grade Type: Letter Grade

Division: Health Sciences

EMS 107 - Advanced Emergency Care I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a study of emergency medical care procedures for the advanced emergency medical technician. It is designed to cover topics related to the preparation of an advanced emergency medical technician, the human body and body systems, operations and patient assessment.

Prerequisite

BIO 210

and

EMS 103

or

NREMT EMT certification

Grade Type: Letter Grade

Division: Health Sciences

EMS 108 - Advanced Emergency Care II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of emergency medical care procedures for the advanced emergency medical technician. It is designed to cover topics related to identification and treatment of general medical, respiratory, cardiovascular, trauma and special population emergencies.

Prerequisite

EMS 107

Corequisite

EMS 219

Grade Type: Letter Grade

Division: Health Sciences

EMS 115 - International Trauma Life Support

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Spring

This course is designed to educate the experienced pre-hospital health care provider in dealing with critically injured trauma patients in an emergency setting. An understanding of trauma care equipment, basic trauma related and assessment skills is necessary. Current NAEMT PHTLS guidelines will be followed.

Departmental approval

Grade Type: Letter Grade

Division: Health Sciences

EMS 116 - Advanced Cardiac Life Support

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall

This course is designed to educate the experienced health care provider in dealing with critical cardiac patients in an acute, emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary. Current American Heart Association guidelines will be followed.

Departmental approval

Grade Type: Letter Grade

Division: Health Sciences

EMS 117 - Pediatric Advanced Life Support

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Spring

This course is designed to educate the experienced health care provider in dealing with critical pediatric patients suffering from acute cardiac and respiratory problems in an emergency setting. An understanding of cardiac equipment, basic pharmacology and cardiovascular function is necessary.

Grade Type: Letter Grade

Division: Health Sciences

EMS 120 - Pharmacology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of concepts related to the pharmacological actions of groups of drugs and includes the development of skills related to the administration of medications and intravenous therapy. Physiology of systems affected by drug action is also included in the course.

Prerequisite

BIO 211

and

EMS 108

or

NREMT AEMT certification

Grade Type: Letter Grade

Division: Health Sciences

EMS 211 - Advanced Clinical Experience I

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall

This course includes hospital clinical experiences in obstetrics (labor/delivery), pediatrics and emergency/trauma settings.

Prerequisite

EMS 120

and

EMS 217

and

EMS 220

Grade Type: Letter Grade

Division: Health Sciences

EMS 212 - EMS Field Internship

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course includes experiences with advanced life support emergency medical services.

Corequisite

EMS 103

Grade Type: Letter Grade

Division: Health Sciences

EMS 214 - Advanced Clinical Experience II

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Spring

This course includes hospital clinical experiences in coronary care and emergency and trauma settings.

Prerequisite

EMS 211

Grade Type: Letter Grade

Division: Health Sciences

EMS 217 - Introduction to Electrocardiography

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course covers the basic principles of recognizing and interpreting EKG tracings. Laboratory emphasis is placed on the operation of electrocardiographic equipment.

Prerequisite

BIO 211

and

EMS 108

or

NREMT AEMT certification

Grade Type: Letter Grade

Division: Health Sciences

EMS 219 - Advanced EMS Field Internship II

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course builds in the knowledge and skills of advanced emergency medical practice in the pre-hospital environment. Focus is on situations involving complex patient problems including trauma, surgical and medical emergencies and the treatment modalities.

Prerequisite

EMS 212

Corequisite

EMS 108

Grade Type: Letter Grade

Division: Health Sciences

EMS 220 - Paramedic Internship I

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Summer

This course includes experiences with advanced life support emergency medical service providers.

Prerequisite

BIO 211

and

EMS 108

or

NREMT AEMT certification

Grade Type: Letter Grade

Division: Health Sciences

EMS 221 - Paramedic Internship II

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall

This course builds on the experiences gained in Paramedic Internship I. Focus is on the students and their ability to apply knowledge gained in the classroom during emergency situations while treating a wide variety of patients in different situations.

Prerequisite

EMS 220

Grade Type: Letter Grade

Division: Health Sciences

EMS 222 - Paramedic Internship III

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Spring

This course builds on the experiences gained in Paramedic Internship II. Focus is centered on the student’s ability to function as the EMS team leader and direct patient care in any emergency situation. A capstone experience is required.

Prerequisite

EMS 221

and

EMS 214

and

EMS 234

Grade Type: Letter Grade

Division: Health Sciences

EMS 233 - Paramedic Emergency Medical Care I

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course is an introduction to the study of emergency medical care procedures for the paramedic provider. It is designed to cover topics related to the preparation of a paramedic, the human body and body systems, operations and patient assessment.

Grade Type: Letter Grade

Division: Health Sciences

EMS 234 - Paramedic Emergency Medical Care II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of emergency medical care procedures for the paramedic provider, including concepts and skills related to medical emergencies. Emphasis is on pathophysiology and treatment modalities related to the major systems of the body such as the respiratory and cardiovascular systems.

Prerequisite

EMS 233

Corequisite

EMS 211

and

EMS 221

Grade Type: Letter Grade

Division: Health Sciences

EMS 235 - Paramedic Emergency Medical Care III

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall

This course is a study of emergency medical care procedures for the paramedic provider, including special population emergencies. Emphasis is on pathophysiology and treatment modalities related to special needs patients such as geriatric, and neonatal patients with special challenges.

Prerequisite

EMS 234

and

EMS 221

and

EMS 211

Grade Type: Letter Grade

Division: Health Sciences

EMS 236 - Paramedic Emergency Medical Care IV

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of emergency medical care procedures for the paramedic provider covering topics related to traumatic injuries. Emphasis is on pathophysiology and treatment modalities related to the patient who has experienced a traumatic injury.

Prerequisite

EMS 235

and

EMS 221

Corequisite

EMS 214

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - English (ENG)

ENG 101 - English Composition I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of composition in conjunction with appropriate literary selections, with frequent theme assignments to reinforce effective writing. It also reviews standard usage and presents basic research techniques.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate placement

Grade Type: Letter Grade

Restrictions: Students cannot receive credit for both ENG 101 and ENG 111

Division: Humanities and Social Sciences

ENG 102 - English Composition II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the development of writing skills through logical organization, effective style, literary analysis, research and an introduction to literary genres.

Prerequisite

ENG 101

with a minimum grade of C

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 111 - Advanced Freshman Composition

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall

This course is a study of the writing process in conjunction with appropriate literary selections with frequent composition assignments that reinforce effective academic writing. Instruction in techniques of academic research and documentation is presented.

or

appropriate placement

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both ENG 101 and ENG 111.

Division: Humanities and Social Sciences

ENG 203 - American Literature Survey

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a survey of American literature: major authors, genres and periods.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 205 - English Literature I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the study of English literature from the Old English period to the Romantic period with emphasis on major writers and periods.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 206 - English Literature II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the study of English literature from the Romantic period to the present with emphasis on major writers and periods.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 208 - World Literature I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is a study of masterpieces of world literature in translation from the ancient world to the 16th century.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 209 - World Literature II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

Summer

This course is a study of masterpieces of world literature in translation from the 17th century to the present.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 214 - Fiction

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of fiction from several cultures. Emphasis is on the nature of genres and appropriate reading strategies.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 236 - African-American Literature

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a critical study of African-American literature examined from historical, social and psychological perspectives.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 238 - Creative Writing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course presents techniques of creative writing in various genres. The student learns to analyze and apply the techniques, styles and forms of prose fiction, poetry or drama through extensive writing and reading.

Prerequisite

ENG 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 242 - Advanced Creative Writing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course provides advanced instruction in creative writing in a specific genre.

Prerequisite

ENG 238

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 260 - Advanced Technical Communications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course develops skills in research techniques and increases proficiency in written and oral technical communications by focusing on all phases of the preparation of a formal, fully documented technical project. Since it requires the ability to do independent problem solving in the student’s major area of study, the course is designed for students who are near the end of their programs.

Prerequisite

ENG 101

with a minimum grade of C

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 263 - Writing for Social Media

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course emphasizes the rhetorical strategies needed to employ social media for professional purposes.

Prerequisite

ENG 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 265 - Advanced Professional Communications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course emphasizes purpose and audience analysis in determining the appropriate rhetorical mode, language usage, and format in professional communications.

Prerequisite

ENG 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ENG 299 - Special Topics in English

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course focuses on a specific purpose for, issue in, or type of English such as South Carolina literature, writing for the web, or a history of literature censorship in the United States.

Prerequisite

ENG 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Environmental Technology (EVT)

EVT 101 - Man and His Environment

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course provides an introduction to the fields of environmental science and environmental engineering. Engineering aspects of current environmental issues and the effects of pollution on local, state, national and worldwide scales are included.

Grade Type: Letter Grade

Division: Science and Mathematics

2024-2025 TTC Catalog - Foreign Languages (FLG)

FLG 001 - Foreign Languages

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for foreign language course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Film Production (FLM)

FLM 138 - Film Editing I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers the fundamentals of preparation and execution in editing film and television programs. Students will concentrate on learning various editing techniques including syncing picture and sound.

Prerequisite

MAP 110

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 152 - Film Equipment

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is an introduction to motion picture film and equipment. Course emphasizes use of motion picture cameras and support equipment.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 153 - Film Lighting

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is an introduction to film lighting techniques and equipment. This course will also include advanced techniques used to light sets for feature films and commercials.

Prerequisite

MAP 130

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 155 - Film Production I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers general film production, including the mechanics of a screenplay, scheduling and scouting locations, and the operation of motion picture equipment.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 156 - Film Production II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers film production emphasizing post-production techniques and equipment.

Prerequisite

FLM 155

and

FLM 269

or

departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 157 - Set Construction-Props-Art

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course introduces set construction and prop building for motion pictures as well as the workings of the art department from design to set dressing.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 180 - Special Topics in Film I

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

This course covers special topics and issues in film production related to equipment and technology as they emerge in the film industry.

Departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 181 - Special Topics in Film II

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

This course covers special topics and issues in film production related to equipment and technology as they emerge in the film industry.

Departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 182 - Special Topics in Film III

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

This course covers special topics and issues in film production related to equipment and technology as they emerge in the film industry.

Departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 230 - Animation Production

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course covers how to produce animated films and includes an understanding of camera-less animation, flip books, inbetweening, cel painting, 3-D animation and other forms of single-frame movement.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 238 - Film Editing II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course will provide students with advanced film editing skills using industry-standard software.

Prerequisite

FLM 138

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 239 - Color Grading

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is designed to develop skills in color timing and color correcting on visual imagery.

Prerequisite

FLM 138

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 240 - Insert Stage Techniques

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course is a study of insert stage techniques used in developing professional imagery.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 252 - Cinematography

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers advanced knowledge, practices and skills used by cinematographers and directors of photography.

Prerequisite

FLM 152

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 255 - Film Production III

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Summer

This course is designed to teach students management skills involved in producing a short film. Students practice the roles of department heads while producing the film which is overseen by industry professionals.

Prerequisite

FLM 269

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 256 - Film Production IV

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Summer

This course is for students wishing to do a small independent film.

Departmental approval

Grade Type: Letter Grade

Restrictions: Restricted to Film majors

Division: Film, Media and Visual Arts

FLM 260 - Professional Experience in Film

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This is a course with variable content. Emphasis is on specialized job-related training that is not included in other required courses. This course is offered every semester as an independent study. May substitute for a FLM/MAP course; see advisor.

Departmental approval

Grade Type: Letter Grade

Restrictions: Restricted to Film majors

Division: Film, Media and Visual Arts

FLM 261 - Professional Experience in Film II

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course continues FLM 260, Professional Experience in Film. This course has variable content with emphasis on specialized job-related training that is not included in other required courses. This course is offered each semester as an independent study. May substitute for a FLM/MAP course; see advisor.

Departmental approval

Grade Type: Letter Grade

Restrictions: Restricted to Film majors

Division: Film, Media and Visual Arts

FLM 262 - Professional Experience in Film III

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Fall
Spring

This course will provide specialized training in film production. Students will receive practical experience in various areas tailored specifically to the needs of the assigned production.

Departmental approval

Grade Type: Letter Grade

Restrictions: Restricted to Film majors

Division: Film, Media and Visual Arts

FLM 263 - Professional Experience in Film IV

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Fall
Spring

This course will provide specialized training in film production. Students will receive practical experience in various areas tailored specifically to the needs of the assigned production.

Departmental approval

Grade Type: Letter Grade

Restrictions: Restricted to Film majors

Division: Film, Media and Visual Arts

FLM 264 - Professional Experience in Film V

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Fall
Spring

This course will provide specialized training in film production. Students will receive practical experience in various areas tailored specifically to the needs of the assigned production.

Departmental approval

Grade Type: Letter Grade

Restrictions: Restricted to Film majors

Division: Film, Media and Visual Arts

FLM 265 - Documentary Filmmaking

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers the techniques and procedures used to produce a short documentary project.

Prerequisite

MAP 110

and

MAP 120

or

departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 269 - Film Production Practicum

Lec: 4.0 **Lab:** 6.0 **Credit:** 6.0

Course Offered

Summer

This course provides an environment for students to work with industry professionals on a short film project. Students are involved in every aspect of the film production process, from pre-production through production.

Prerequisite

FLM 155

or

departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 272 - Directing for the Camera

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is an introduction to directing techniques that can help actors and crew to ensure a successful project.

Prerequisite

FLM 155

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 275 - The Camera and the Actor

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course examines filmmaking from the actor’s point of view. It explores the similarities and differences in the processes of acting for stage versus screen, including the relationship of the actor to the camera. Emphasis will be placed on character development, script analysis and common technical challenges.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

FLM 290 - Contemporary Film Issues

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers various issues in film such as women in film, minorities in film, the independents, experimental filmmaking and other issues. The class also views and discusses foreign (European, Japanese, Canadian and Soviet) films.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

2024-2025 TTC Catalog - French (FRE)

FRE 001 - French Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for French course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

FRE 101 - Elementary French I

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course consists of a study of the four basic language skills: listening, speaking, reading and writing. The course includes an introduction to French culture.

Prerequisite

RWR 100

with a minimum grade of C

Grade Type: Letter Grade

Division: Humanities and Social Sciences

FRE 102 - Elementary French II

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course continues the development of basic language skills and includes a study of French culture.

Prerequisite

FRE 101

or

appropriate French placement test scores

Grade Type: Letter Grade

Division: Humanities and Social Sciences

FRE 201 - Intermediate French I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a review of French grammar with attention given to complex grammatical structures and reading difficult prose.

Prerequisite

FRE 102

or

appropriate French placement test scores

Grade Type: Letter Grade

Division: Humanities and Social Sciences

FRE 202 - Intermediate French II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course continues the review of French grammar with attention given to more complex grammatical structures and reading more difficult prose.

Prerequisite

FRE 201

or

appropriate French placement test scores

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Fire Science Technology

FST 001 - Fire Science Technology Non-equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for fire science technology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Geography (GEO)

GEO 102 - World Geography

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes a geographic analysis of the regions of the world, i.e., North and South America, Europe, Australia, Asia and Africa. Diversity of each region is emphasized by examining its physical environment, natural resources, social, cultural, economic and political systems.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Health Information Management (HIM)

HIM 101 - Introduction to Health Information

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall

This course provides an introduction to the health information science profession. It is an overview of health information career choices including specialty credentials and structure of health care in the United States.

Grade Type: Letter Grade

Restrictions: Restricted to Health Information Management majors.

Division: Health Sciences

HIM 110 - Health Information Science I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course provides an in-depth study of the content, storage, retrieval, control and retention of health information systems.

Prerequisite

HIM 101

Grade Type: Letter Grade

Division: Health Sciences

HIM 120 - Health Information Science II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers quality assurance and health information management.

Prerequisite

HIM 110

Grade Type: Letter Grade

Division: Health Sciences

HIM 130 - Billing and Reimbursement

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides an introduction to medical insurance billing and reimbursement practices with emphasis on the primary payers such as Medicare and Medicaid.

Prerequisite

HIM 110

Grade Type: Letter Grade

Division: Health Sciences

HIM 135 - Medical Pathology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of disease processes, general classification of disease, including signs and symptoms, systems affected by disease, diagnostic measures, types of treatment, including surgical and/or chemical intervention, and terminology.

Prerequisite

AHS 104

Grade Type: Letter Grade

Division: Health Sciences

HIM 140 - Current Procedural Terminology I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides a basic to intermediate study of the CPT-4 and HCPCS coding and classification systems particular to the physician office setting. Students learn to assign codes to capture the professional component of services provided.

Prerequisite

HIM 110

Prerequisite or Corequisite

HIM 135

Grade Type: Letter Grade

Restrictions: Restricted to Health Information Management majors.

Division: Health Sciences

HIM 141 - Current Procedural Terminology II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course provides a basic to intermediate study of the CPT-4 and HCPCS coding and classification systems with respect to surgical outpatient facilities and hospitals.

Prerequisite

HIM 140

Grade Type: Letter Grade

Division: Health Sciences

HIM 163 - Supervised Clinical Practice I

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall

This course includes correlation of didactic and laboratory experiences with clinical experiences in various health care facilities.

Prerequisite or Corequisite

HIM 120

Grade Type: Letter Grade

Restrictions: Restricted to Health Information Management majors.

Division: Health Sciences

HIM 164 - Supervised Clinical Practice II

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Spring

This course includes clinical experience in the technical aspects of health information management.

Grade Type: Letter Grade

Restrictions: Restricted to Health Information Management majors.

Division: Health Sciences

HIM 200 - Fundamentals of Data Analytics and Reporting

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course explores the foundations of health data manipulation into health information and the preparation of data and information for reporting and presentation purposes using industry standard computer applications.

Grade Type: Letter Grade

Division: Health Sciences

HIM 215 - Registries and Statistics

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course includes a study of vital and health care statistics and registries in health information systems.

Prerequisite

MAT 120

Grade Type: Letter Grade

Division: Health Sciences

HIM 216 - Coding and Classification I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course includes a study of disease, procedural coding and classification systems.

Prerequisite

HIM 110

Prerequisite or Corequisite

HIM 135

Grade Type: Letter Grade

Division: Health Sciences

HIM 225 - Coding and Classification II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course provides a study of advanced coding and classification systems.

Prerequisite

HIM 216

Grade Type: Letter Grade

Division: Health Sciences

HIM 227 - Senior Professional Competencies

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This capstone course is designed to promote interactive discussion related to the HIM profession to include career issues and opportunities. The course includes specific projects and capstone competencies in a mock testing environment. (Emphasis on professionalism, managerial competencies and workforce preparation.)

Prerequisite

HIM 265

Grade Type: Letter Grade

Division: Health Sciences

HIM 235 - Law and Ethics in Health Informatics and Information Management

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the legal and ethical implications of the electronic health record and health informatics. Emphasis will be given to patient privacy, rights and advocacy, information security and data stewardship as well as the integrity of the legal health record.

Grade Type: Letter Grade

Division: Health Sciences

HIM 265 - Supervisory Principles

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course covers principles of authority/responsibility, delegation and effective communication, organization charts, job descriptions, policies and procedures, employee motivation, discipline, and performance evaluation in health information management.

Prerequisite or Corequisite

HIM 120

Grade Type: Letter Grade

Division: Health Sciences

HIM 266 - Computers in Health Care

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers hardware and software components of computers for medical record applications, methods of controlling accuracy and security of data in computer systems, record linkage and data-sharing concepts.

Prerequisite

HIM 110

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - History (HIS)

HIS 001 - HIS 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for history course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

HIS 101 - Western Civilization to 1689

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a survey of Western civilization from ancient times to 1689, including the major political, social, economic and intellectual factors shaping the Western cultural tradition.

Prerequisite

RWR 100

with a minimum grade of C or appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 102 - Western Civilization Post 1689

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a survey of Western civilization from 1689 to the present, including major political, social, economic and intellectual factors that shaped the modern Western world.

Prerequisite

RWR 100

with a minimum grade of C or appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 104 - World History I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers world history from prehistory to circa 1500 CE, focusing on economic, social, political and cultural aspects of people before the onset of Western dominance and identifying major patterns and trends that characterized the world in each era.

Prerequisite

RWR 100

with a minimum grade of C or appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 105 - World History II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers world history from circa 1500 CE to the present, focusing on the development of a system of interrelationships based on Western expansion and on the economic, social, political and cultural aspects of each era.

Prerequisite

RWR 100

with a minimum grade of C or appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 106 - Introduction to African History

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course is an examination of several traditional sub-Saharan African societies and their political and economic transformation in the modern, colonial and post-dependence periods.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 130 - African-American History to 1877

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This survey course describes the efforts of African-Americans to define themselves through their social, economic and political contributions to American history.
The history, impact and significance of the institution of slavery are included. The chronological scope of the course ranges from the African origins of African-Americans to the frustrations associated with the failure of Reconstruction.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 131 - African-American History: 1877 to Present

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

Spring
Summer

This survey course describes the efforts of African-Americans to define themselves through their social, economic and political contributions to American history from the time of Reconstruction to the present.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 201 - American History: Discovery to 1877

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a survey of U.S. history from discovery to 1877, including political, social, economic and intellectual developments during this period.

Prerequisite

RWR 100

with a minimum grade of C or appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 202 - American History - 1877 to Present

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a survey of U.S. history from 1877 to the present, including political, social, economic and intellectual developments during this period.

Prerequisite

RWR 100

with a minimum grade of C or appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HIS 226 - Black History and Culture of the South Carolina

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course focuses on the unique origin, history, language, art, music and literature of the South Carolina Sea Islands and how the customs, folklore and traditions are being fused into the present American society.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate placement

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Hospitality and Tourism (HOS)

HOS 001 - HOS 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for hospitality and tourism course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Culinary Institute of Charleston

HOS 132 - Hospitality Communications and Leadership

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a basic course in communication, including grammar review and development of written and oral communication skills as applied to hospitality and tourism scenarios. This course also introduces the concept of leadership development through service learning in hospitality.

Prerequisite

RWR 100

or

appropriate placement

Prerequisite or Corequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 140 - The Hospitality Industry

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a survey of the hospitality industry and the principles of operation of both lodging and food service industries. Students learn the range of alternative business options available in the industry from local, national and international perspectives.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 146 - Restaurant Operations

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course combines a working knowledge of food production techniques with dining room service procedures in a restaurant setting.

Prerequisite or Corequisite

HOS 140

or

HOS 157

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 150 - Hotel Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the management of the lodging phase of the hospitality industry, including front office, housekeeping and engineering.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 157 - Hospitality Service

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a comprehensive study of the principles and techniques required to provide exceptional service in the hospitality industry. Emphasis is placed on the service environment, the customer's perspective, and the behavioral component of service.

Prerequisite or Corequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 159 - Hospitality Accounting Applications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers financial accounting concepts and their application to the hospitality industry. Included are the major hospitality classifications of accounts and computerized hospitality financial applications.

Prerequisite

HOS 140

and

MAT 110

or

MAT 120

or

MAT 155

or

appropriate placement.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 160 - Purchasing for Hospitality

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of a systematic approach to the principles of effective control and procurement of food products, beverages and equipment. Emphasis is placed on practical applications of facilities design, food cost reporting and inventory accountability functions.

Prerequisite

HOS 140

and

MAT 110

or

MAT 120

or

MAT 155

or

appropriate placement.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 161 - Event Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course provides an introduction to the event management industry, including planning, implementation and evaluation of special events and festivals.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 164 - Travel and Tourism

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the history, development, concepts and principles of the travel and tourism industry. Students research case studies as well as local examples of how tourism affects the economy and society. Students also learn to interpret travel trends for business application.

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 190 - Issues in Culinary Arts and Hospitality Abroad

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course exposes students to contemporary hospitality and culinary issues in the global marketplace through lecture, cultural preparation, and geographic study as well as completion of an experiential visit abroad.

Departmental Approval

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 245 - Hospitality Marketing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of fundamental marketing strategies that are specific to the hospitality industry. Emphasis is placed on how marketing strategies target customer needs and wants.

Prerequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 250 - Beverage Service Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course addresses the principles of beverage service. This course is designed to prepare students for management responsibilities in the culinary and hospitality industries.

Prerequisite

HOS 140

or

CUL 104

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 251 - Introduction to Wine

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the basic wine production process with focus on the different styles of wine, countries of origin, terroir and related flavor characteristics. The course will include best practices and industry trends.

Prerequisite

CUL 104

or

HOS 140

and

proof of current TIPS or NRA ServSafe Alcohol Certification

Grade Type: Letter Grade

Restrictions: Student must be 18 years of age by date of first class meeting.

Division: Culinary Institute of Charleston

HOS 256 - Hospitality Management Concepts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the theory and principles of management as applied to the hospitality industry.

Prerequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 258 - Convention Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of acquiring, soliciting and servicing convention or individual properties in the hospitality industry.

Prerequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 262 - Hospitality Software Applications

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes using microcomputer software to manage various areas of the hospitality industry.

Prerequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 264 - Food and Beverage Pairing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course focuses on the concepts of food and beverage pairing and the influence of ingredient selection, preparation techniques and presentation on enhancing sales, service and profitability.

Prerequisite

CUL 104

or

HOS 140

and

HOS 251

and

proof of current TIPS or NRA ServSafe Alcohol Certification.

Grade Type: Letter Grade

Restrictions: Students must be 18 years of age by date of first class meeting.

Division: Culinary Institute of Charleston

HOS 265 - Hotel, Restaurant and Travel Law

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers legal foresight for hospitality management. Topics include litigation involving dining and lodging responsibilities of the innkeeper.

Prerequisite or Corequisite

HOS 140

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 267 - Destination Wedding Planning

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course provides an introduction to the destination wedding planning industry including planning, coordination, budgeting, implementation, vendor management and support services.

Prerequisite

HOS 140

and

HOS 161

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 272 - SCWE in Hospitality/Tourism Management

Lec: 0 **Lab:** 12.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course integrates hospitality skills at an approved worksite related to the hospitality industry.

Prerequisite

HOS 132

and

departmental approval

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 294 - Hospitality Business Development

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes planning and development of a hospitality business in a variety of settings.

Prerequisite

HOS 245

or

Corequisite

CUL 238

Prerequisite or Corequisite

HOS 159

and

HOS 262

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

HOS 298 - Special Topics in Hospitality and Tourism

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course explores advanced concepts, trends and issues in hospitality and tourism.

Departmental approval

Grade Type: Letter Grade

Division: Culinary Institute of Charleston

2024-2025 TTC Catalog - Horticulture (HRT)

HRT 001 - HRT 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for horticulture course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

HRT 101 - Introduction to Horticulture

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers the basic principles of horticulture as it relates to commercial production.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 102 - Landscape Design

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course is a study of landscape design principles and the application of landscape drafting techniques and plant selection to produce a finished landscape plan.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 106 - Ornamentals

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall

This course is a survey of ornamentals that can be grown in local gardens. Emphasis is on form, texture, size, color, blooming season, culture, and botanical and common names. Plant materials include ground covers, vines, grasses, palms and some shrubs.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 107 - Woody Ornamentals

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Spring

This course is a survey of deciduous and evergreen ornamentals that can be grown in local gardens. Emphasis is on form, texture, size, color, blooming season, culture, and botanical and common names.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 108 - Annuals and Perennials

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course is a survey of herbaceous plants, both annual and perennial, that can be grown in local gardens. Emphasis is on form, texture, size, blooming season, color, culture, and botanical and common names.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 110 - Plant Form and Function

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of morphology, anatomy and physiology of higher plants. Emphasis is on plant structure, functions of plant parts, plant processes, plant growth and development, and plant inheritance.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 121 - Commercial Irrigation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course examines the use of irrigation in the landscape industry with emphasis on design, equipment suitability, water application procedures and construction. Design projects and job bidding also are included.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 125 - Soils

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of soils and plant nutrition. Emphasis is on physical and chemical properties, water, organic matter and life of soils. Materials and methods for supplying nutrients to plants are included.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 130 - Greenhouse Production

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the basics of greenhouse production. Emphasis is on greenhouse soils, watering, fertilization, pest control, climate control and calculation of production costs.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 132 - Nursery Operations

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course is a study of nursery and greenhouse operations and management. Operational details of plant production, management principles, and chemical safety are covered.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 139 - Plant Propagation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the fundamental principles and techniques involved in plant propagation.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 144 - Plant Pests

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of horticulturally important insects, plant diseases and weeds. Emphasis is on identification, prevention and control.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 150 - Arboriculture I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a study of tree maintenance. Topics covered are tree physiology and anatomy, ropework, tree climbing techniques, pruning, fertilization, planting, and watering.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 153 - Landscape Construction

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers the requirements and techniques of landscape construction. Emphasis is on construction of wood, concrete, and brick landscape structures; lighting; water features; and drainage.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 169 - Sustainability in Horticulture

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course emphasizes basic issues affecting sustainability in horticultural environments. Topics include water retention, harvesting, pesticides, noise pollution and energy. Students will discuss new and current practices in sustainability, and will also identify sustainable pest control products.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 171 - Landscape Business Techniques

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course explores ownership and operation of a landscape business. Topics include basic business procedures, finance, employee benefits and license requirements with emphasis on business start-up procedures.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 212 - Commercial Landscape Design

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a study of landscaping principles and practices with emphasis on large commercial or public landscape developments. Students are introduced to landscape design using computers.

Prerequisite

HRT 102

or

advisor approval

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 240 - Pesticides

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course is a study of the application of herbicides, insecticides and fungicides. Emphasis is on current certification materials, calibration problems and application of pesticides over large areas.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 241 - Turf Management

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the identification, use, culture and maintenance of turf grasses. Emphasis is on installing and managing turf in residential, commercial and public areas.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 254 - Landscape Maintenance

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course is a study of the methods and procedures used in an overall approach to the maintenance of annuals, perennials, turf, shrubs and trees in a large-scale area.

Grade Type: Letter Grade

Division: Engineering and Construction

HRT 269 - Edible Landscaping

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of varied production techniques for fruits, vegetables and herbs, including organic, hydroponic, commercial and residential. Students will develop business strategies to market and sell products.

Grade Type: Letter Grade

Division: Engineering and Construction

2024-2025 TTC Catalog - Homeland Security Management (HSM)

HSM 001 - HSM 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for homeland security management course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Law-Related Studies

HSM 101 - Introduction to Homeland Security

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is an overview of homeland security as an interdisciplinary system. The components of the homeland security system and their relationships will be examined, including law enforcement, intelligence, transportation and border security, emergency management and public health preparedness.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 103 - Introduction to Emergency Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course covers the management techniques for establishing and maintaining an emergency management system in the public sector. Students will be introduced to the four functions of emergency management (mitigation, preparedness, response and recovery) and the emergency manager’s role in each.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 104 - Terrorism and Homeland Security

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides an overview of the issues of terrorism and homeland security efforts by drawing on several disciplines. An emphasis is placed on problems and countermeasures within an all-hazards approach to protecting people and assets in conjunction with criminal justice agencies.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 201 - Critical Incident Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course explores the management and leadership principles necessary for the successful resolution of critical incidents. The National Incident Management System and the Incident Command System will be examined to provide an all-hazard, interdisciplinary approach to critical incident management.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 202 - Transportation and Border Security

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course provides an in-depth view of modern border and transportation security. Specific topics include security for seaports, ships, aircraft, trains, trucks, pipelines, buses, etc., as well as the technology needed to detect terrorists and their weapons. Includes discussion on legal, economic, political and cultural aspects of the problem.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 203 - Intelligence Analysis and Security Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course examines intelligence analysis and its relationship to the security management of terrorist attacks, man-made disasters and natural disasters, and the related vulnerabilities of our national defense and private sectors. Students will discuss issues regarding intelligence support of homeland security measures implemented by the United States and explore how the intelligence community operates.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 204 - Terrorism and Weapons of Mass Destruction

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course examines terrorist tactics involving weapons of mass destruction and responses to these types of incidents. Topics include chemical, biological, radiological and explosive weapons as well as the hazards to the public and first responders.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 205 - Public Health Emergency Preparedness

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course examines preparedness activities for disasters that directly affect the public health system. Specific public health emergency types will be examined, their threats defined and procedures for prevention, immediate action and recovery, and management of aftermath explored.

Grade Type: Letter Grade

Division: Law-Related Studies

HSM 206 - Critical Infrastructure Protection

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

The course will cover a broad overview of our nation's critical infrastructure network, the history and evolution of critical infrastructure, and the importance of protecting the interconnectivity between systems.

Prerequisite

ENG 101

or

ENG 102

Grade Type: Letter Grade

Division: Law-Related Studies

2024-2025 TTC Catalog - Humanities (HSS)

HSS 101 - Introduction to Humanities

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is an introduction to themes, critical approaches and major contributors to the humanities.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HSS 102 - Critical Thinking in the Humanities

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of history and art to develop critical thinking skills through appreciating major themes and contributions in the humanities.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HSS 110 - History of Ideas

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a history of human ideas and values as they have been transformed across time through an interdisciplinary examination of a culture’s arts, literatures, philosophies and beliefs.

Prerequisite

RWR 100
or appropriate placement

Grade Type: Letter Grade
Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Humanities (HUM)

HUM 001 - Humanities Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for humanities course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Human Services (HUS)

HUS 001 - Non Equivalent Human Services Credit

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for human services course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

HUS 101 - Introduction to Human Services

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers an overview of the field of human services. Role responsibilities, problems, boundaries and strategies of human services workers are included.

Prerequisite

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 102 - Personal and Professional Development in Helping Professions

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course provides students with the opportunity to gain a greater awareness of "self" through values clarification activities, reflective writings, etc., and to understand how attitudes, values and beliefs impact both their personal and professional lives.

Prerequisite

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 116 - Orientation to the Fieldwork Experience

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Summer

This course is designed to prepare students to maximize the fieldwork experience and understand the relationship between academic learning and the applied learning of the field experience.

Prerequisite

HUS 230

or

Corequisite

HUS 209

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 208 - Alcohol and Drug Abuse

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the etiology of alcohol and drug abuse, various types of addictive substances, physical, mental and social implications, programs in rehabilitation, and preventive education.

Prerequisite

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 209 - Case Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers accepted methods and strategies for effectively assessing client needs, accessing necessary provider agencies, and monitoring and properly documenting service delivery and client welfare.

Prerequisite

ENG 101

and

HUS 101

and

HUS 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 220 - Diversity Issues in Human Services Practice

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is a study of issues of cultural diversity, including critical analyses of gender ideologies and systemic applications. Students will be afforded opportunities to engage in self analysis and will examine currently emerging cultural trends in human services education and delivery.

Prerequisite

ENG 101

and

HUS 101

and

HUS 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 230 - Interviewing Techniques

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course covers the development of skills necessary for interviews in various organizational settings. Students in human services will use these skills and knowledge later in their supervised field placements.

Prerequisite

ENG 101

and

HUS 101

and

HUS 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 231 - Counseling Techniques

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of a variety of counseling techniques necessary to assist qualified therapists in a variety of therapeutic settings. Students will demonstrate procedures and knowledge of basic counseling theories and techniques related to human services.

with a minimum grade of C

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 235 - Group Dynamics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is an examination of the theory and practice of group dynamics. Emphasis is on the application of the value and use of the group process in specialized settings related to human services.

Prerequisite

ENG 101

and

HUS 101

and

HUS 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 250 - Supervised Field Placement I

Lec: 1.5 **Lab:** 10.0 **Credit:** 4.0

Course Offered

Fall
Spring

This course includes work experience assignments in selected human services agencies.

Prerequisite

HUS 116

with a minimum grade of C and

departmental approval

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 251 - Supervised Field Placement II

Lec: 1.5 **Lab:** 10.0 **Credit:** 4.0

Course Offered

Spring

This course includes supervised cooperative work assignments in selected human services agencies.

Prerequisite

HUS 250

with a minimum grade of C and

departmental approval

Grade Type: Letter Grade

Division: Humanities and Social Sciences

HUS 270 - Personal and Professional Development II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This advanced course prepares students for successful post-graduation transition into career and/or academic settings by fostering integration of the Human Services program’s personal and professional competencies.

Prerequisite

HUS 250

and

departmental approval

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Interdisciplinary Studies (IDS)

IDS 109 - First Year Experience Seminar

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces students to interdisciplinary thinking, academic integrity and the philosophy of the liberal arts and sciences education. Students develop skills to be academically successful: connecting to campus resources, improving information literacy and practicing integrative learning.

Prerequisite

RWR 100

(or equivalent) with a minimum grade of C or appropriate placement scores.

Grade Type: Letter Grade

Division: Academic Affairs

IDS 201 - Leadership Development

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course focuses on the development of leadership, including philosophy, morals/ethics, and individual ability and style. The course aids students in increasing their understanding of themselves, and the theories and techniques of leadership and group processes by integrating theoretical concepts with the reality of application within a group setting. This includes a major emphasis in the development of group and individual competencies in oral communication skills.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Industrial Engineering Technology (IET)

IET 223 - Industrial Safety

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course involves safety fundamentals and their relationship to accident prevention. The importance of safe behavior through careful training of both employees and supervisors is stressed. A survey of the Occupational Safety and Health Act (OSHA) is included. This course emphasizes hazard recognition and safety requirements for machining operation.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Industrial Mechanics (IMT)

IMT 001 - Non Equivalent Industrial Mechanics Credit

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for industrial mechanics course work transferred from another college or through other approved documented methods, for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

IMT 106 - Fundamentals of Industrial Technology

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course is a study of basic industrial topics, including teamwork, blueprint reading, and problem solving in an integrated format.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 115 - Industrial Schematics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course covers the interpretation of mechanical, fluid power, piping and electrical schematics.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 127 - Industrial Pumps

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course introduces students to the principles of pumps including various commercial and industrial pumps and pumping systems with setups to calculate and measure pressure, flow and velocity of fluids within pumping systems.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 131 - Hydraulics and Pneumatics

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall

This course covers the basic technology and principles of hydraulics and pneumatics.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 132 - Hydraulics

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a study of basic hydraulic terminology and principles of hydraulics and pneumatics.

Grade Type: Letter Grade

Division: Engineering and Construction

IMT 133 - Pneumatics

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Fall

Spring

This course is a study of basic pneumatic terminology and principles for industrial applications.

Prerequisite

IMT 132

Grade Type: Letter Grade

Division: Engineering and Construction

IMT 140 - Industrial Electricity

Lec: 4.5 **Lab:** 1.5 **Credit:** 5.0

Course Offered

Fall

This course covers basic electrical fundamentals, including measuring devices, circuitry and controls for industrial circuits.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 151 - Piping Systems

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers plumbing and piping systems used in industrial, commercial and/or residential construction. Emphasis will be placed on the reading and sketching of piping schematics as well as the fabrication and design of piping systems. This course will also include pump technology and valve maintenance.

Corequisite

IMT 127

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 160 - Preventive Maintenance

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course covers preventive maintenance techniques, lubrication, bearing, mechanical troubleshooting and the use of computers in maintenance.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 161 - Mechanical Power Applications

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers mechanical transmission devices, including procedures for installation, removal and maintenance. Emphasis is placed on drive systems consisting of belts and pulleys, chains and sprockets, and gear drives used to transmit power.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

IMT 163 - Problem Solving for Mechanical Applications

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers troubleshooting techniques such as critical thinking in mechanical situations, practical problem-solving techniques, root-cause analysis, and mechanical procedures with heavy emphasis on computational and analytical problem-solving skills.

Prerequisite

IMT 131

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Information Systems Technology (IST)

IST 165 - Implementing and Administering Windows Directory Services

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of directory services covering the planning, design, installation, configuration and administration of a network directory structure. This course covers the objectives of the associated Microsoft certification exam.

Prerequisite

IST 166

Grade Type: Letter Grade

Division: Business Technology

IST 166 - Network Fundamentals

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of local area networking concepts through discussions on connectivity, communications and other networking fundamentals. The course is designed to prepare the student to be successful in completing industry network fundamental certification exams. This course covers the content included in the CompTIA Network + certification exam.

Grade Type: Letter Grade

Division: Business Technology

IST 190 - Linux Essentials

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course provides students with the fundamental knowledge and concepts of the Linux operating system, including command line functions, file systems, user and group administration, process management, text editors, and network applications. This course helps students prepare for the CompTIA Linux+ certification exam.

Grade Type: Letter Grade

Division: Business Technology

IST 191 - Linux System Administration

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course provides students with the skills necessary to administer a Linux system, including hardware/software configuration, user and group administration, Linux network configuration, and file system management. This course helps students prepare for the RedHat Certified Systems Administrator (RHCSA) certification exam.

Prerequisite

IST 190

Grade Type: Letter Grade

Division: Business Technology

IST 193 - Linux Security Administration

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course will provide students with the skills necessary to implement and administer basic LINUX security policies, including authentication, securing network applications, system monitoring, encryption, and others.

Prerequisite

IST 191

Grade Type: Letter Grade

Division: Business Technology

IST 198 - Cloud Essentials

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of Cloud computing as a framework for providing network access to shared computing resources including storage, network, server and virtualization infrastructures.

Prerequisite

IST 166

or

IST 190

Grade Type: Letter Grade

Division: Business Technology

IST 201 - Cisco Internetworking Concepts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of current and emerging computer networking technology. Topics include safety, networking, network terminology and protocols, network standards, LANs, WANs, OSI model, cabling tools, Cisco routers, router programming, star topology, IP addressing, and network standards. This helps prepare students for the Cisco Certified Network Associate (CCNA) credential.

Prerequisite

IST 166

Grade Type: Letter Grade

Division: Business Technology

IST 202 - Cisco Router Configuration

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of LANs, WANs, OSI model, Ethernet, token ring, FDDI, TCP/IP protocol, dynamic routing, and the network administrator's role and function. This helps prepare students for the Cisco Certified Network Associate (CCNA) credential.

Prerequisite

IST 201

Grade Type: Letter Grade

Division: Business Technology

IST 203 - Advanced Cisco Router Configuration

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of configuring Cisco routers. This helps prepare students for the Cisco Certified Network Associate (CCNA) credential.

Prerequisite

IST 202

Grade Type: Letter Grade

Division: Business Technology

IST 206 - Cisco Remote Access

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of building a remote access network to interconnect central sites to branch offices and home office/telecommuters, control access to the central site and maximize bandwidth utilization over the remote links. This course provides an in-depth

understanding of network infrastructure security. This include configuring Hardware Firewalls, Virtual Private Network (VPN) tunnels, protecting Layer-2 switchports, Implementing intrusion prevention, and network device authentication authorization, and accounting.

Prerequisite

IST 202

Grade Type: Letter Grade

Division: Business Technology

IST 209 - Fundamentals of Wireless LANs

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This introductory course is the study of design, installation, configuration, operations and troubleshooting of wireless LANs. The course includes an overview of wireless technologies, standards, devices, security, design and best practices, emphasizing real-world applications and skills. This helps prepare students for the Cisco Certified Network Associate (CCNA) wireless credential.

Grade Type: Letter Grade

Division: Business Technology

IST 235 - Handheld Computer Programming

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a survey of the techniques of rapid application development for handheld devices. Topics include setup of development environment, creation and deployment of programs, and design strategies to overcome memory and interface limitations. The focus of the course will be the development of software for the Android mobile phone.

Prerequisite

IST 239

with a minimum grade of C

Grade Type: Letter Grade

Division: Business Technology

IST 239 - Datum and JavaScript

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes concepts and skills for developing dynamic functionality and interactivity for websites using JavaScript: variables, operators, conditionals, functions, objects (image and form), properties, methods, cookies, frames and arrays. This course covers the basics of the JavaScript language, how to place JavaScript into an HTML file and advanced JavaScript topics such as event handlers, arrays, forms and cookies.

Prerequisite

CPT 162

and

CPT 114

Grade Type: Letter Grade

Division: Business Technology

IST 253 - LAN Service and Support

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course focuses on installing, maintaining and troubleshooting local area networks in a lab environment. This course covers an introduction to virtualization technologies and vendors including VMware, Microsoft and Citrix.

Grade Type: Letter Grade

Division: Business Technology

IST 260 - Network Design

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

Summer

This course is a study of the processes and techniques required to identify the most attractive design solution of a telecommunications network combining creativity, rigorous discipline, analysis, and synthesis while emphasizing the solution in terms of cost and performance.

Prerequisite

IST 165

and

IST 166

and

IST 190

and

IST 202

Grade Type: Letter Grade

Division: Business Technology

IST 272 - Relational Database

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides a comprehensive foundation in both SQL and relational database design and implementation. Dynamic and embedded SQL programming techniques are emphasized. Additional topics include forms developer, triggers, stored procedures and PL/SQL programming.

Prerequisite

CPT 202

Grade Type: Letter Grade

Division: Business Technology

IST 274 - Database Administration

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the duties and responsibilities of a database administrator. The course covers setting up, maintaining, and troubleshooting a distributed, multi-user database.

Prerequisite

CPT 202

Grade Type: Letter Grade

Division: Business Technology

IST 286 - Technical Support Internship I

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is an entry-level technical support/help desk internship. Students intern at the college's help desk and provide support to faculty and staff. Students will participate in weekly evaluation sessions of calls and solutions.

Prerequisite

CPT 209

and

IST 165

and

departmental approval

Grade Type: Letter Grade

Division: Business Technology

IST 290 - Special Topics in Information Sciences

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course covers special topics in information sciences technologies.

Departmental approval

Grade Type: Letter Grade

Division: Business Technology

IST 291 - Fundamentals of Network Security I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course is a study of introductory levels of security processes based on a security policy, emphasizing hands-on skills in the area of secure perimeter, security connectivity, security management, identity services and intrusion detection. The course prepares students to manage network security. This course covers the objectives associated with the CompTIA Advanced Security Practitioner (CASP) certification exam.

Prerequisite

IST 190

and

IST 293

Grade Type: Letter Grade

Division: Business Technology

IST 293 - IT and Data Assurance I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the basics of network security. Topics covered will include network vulnerabilities and threats, security planning, security technology, network security organization, as well as legal and ethical issues related to network security. This course will provide coverage of the objectives associated with the CompTIA Security+ certification.

Prerequisite

IST 166

Grade Type: Letter Grade

Division: Business Technology

IST 294 - IT and Data Assurance II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring
Summer

This course introduces methods for attacking a network. Concepts, principles, tools and techniques for attacking and disabling a network will be covered in the context of understanding how to properly secure a network as a network administrator. This course will provide coverage of the learning objectives associated with the EC-Council Certified Ethical Hacker certification. Topics such as social engineering, physical security and logistics will also be discussed.

Prerequisite

IST 190

and

IST 293

Grade Type: Letter Grade

Division: Business Technology

IST 298 - Advanced Cloud Computing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course covers advanced concepts of cloud computing. Topics include how to implement, administer and troubleshoot private and public cloud services, delivery models, virtualization infrastructures, storage and networks.

Prerequisite

IST 198

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Interpreter Training (ITP)

ITP 106 - Linguistics of American Sign Language

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course consists of a study of the structure, grammar, and syntax of American Sign Language.

Prerequisite

ASL 102

Grade Type: Letter Grade

Division: Humanities and Social Sciences

ITP 201 - Deaf History and Culture

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the history and culture of deaf people. The course explores language, education, community, and attitudinal changes toward deaf people as a minority.

Prerequisite

ASL 102

and

ECD 107

and

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Journalism (JOU)

JOU 101 - Journalism

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of basic rhetorical and ethical principles of journalistic writing for news media, including newspapers, journals, radio and television.

Prerequisite

RWR 100

with a minimum grade of C, appropriate placement or writing sample

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Paralegal (LEG)

LEG 001 - Paralegal Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for paralegal course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Law-Related Studies

LEG 120 - Torts

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the various classifications and functions of tort law, including intentional and negligent torts, causation, proximate cause and defenses.

Prerequisite or Corequisite

ENG 101

and

LEG 135

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 132 - Legal Bibliography

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the methods of legal research, proper citation of authority, use of legal treatises, texts, reporters and digests.

Prerequisite

ENG 101

and

LEG 135

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 135 - Introduction to Law and Ethics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course provides a general introduction to law, including courts, legal terminology, procedures, systems and laws of society. Emphasis is on ethics and the role of the paralegal in the legal system.

Prerequisite

ENG 101

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 201 - Civil Litigation I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Summer

This course is a study of the principles of litigation and the rules of procedure for each court in the South Carolina system, including pleading, practice and discovery procedures.

Prerequisite

ENG 101

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 213 - Family Law

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course includes an examination of the laws of marriage, divorce, annulment, separation, adoption, custody and the juvenile.

Prerequisite or Corequisite

ENG 101

and

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 214 - Property Law

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course includes an overview of South Carolina property law, including the mechanics of various commercial and private property transactions and mortgage foreclosures.

Prerequisite or Corequisite

ENG 101

and

LEG 135

and

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 230 - Legal Writing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course includes methods, techniques and procedures for the research and preparation of legal memoranda, trial and appellate briefs, and trial notebooks

Prerequisite or Corequisite

ENG 101

and

LEG 132

and

LEG 135

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 232 - Law Office Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the basic principles of office management, including administrative procedures, client relations, and office operating procedures.

Prerequisite

LEG 120

and

LEG 135

and

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 233 - Wills, Trusts and Probate

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course includes a detailed study of testacy and intestacy, preparation of wills and codicils, fundamentals of trust, and probate administration.

Prerequisite or Corequisite

ENG 101

and

LEG 135

and

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 234 - Title Examination Procedures I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the common law and statutory requirements related to the transfer of real property with utilization of the appropriate indexes and documents in the appropriate city and county offices.

Prerequisite

ENG 101

and

LEG 214

Prerequisite or Corequisite

LEG 135

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 240 - Claims Investigation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is an in-depth study of investigating claims, interviewing and taking statements, collecting data, and assembling and presenting evidence.

Prerequisite

ENG 101

and

LEG 120

Prerequisite or Corequisite

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 242 - Law Practice Workshop

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes the application of substantive knowledge in a practical situation as a paralegal. (Students may take this course in the Fall or Spring of their second year, but not prior to that time.)

Prerequisite

ENG 101

and

LEG 132

and

LEG 135

and

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 244 - Special Projects for Paralegals

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course provides specialized paralegal training with an update on changes in laws and procedures.

Prerequisite

ENG 101

and

LEG 135

and

LEG 201

Grade Type: Letter Grade

Division: Law-Related Studies

LEG 270 - Paralegal Certification Preparation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides a review and preparation for testing for a national paralegal certification exam.

Prerequisite

LEG 135

and

Corequisite

LEG 201

or

Instructor Approval

Grade Type: Letter Grade

Division: Law-Related Studies

2024-2025 TTC Catalog - Literature (LIT)

LIT 001 - Literature Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for literature course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Logistics (LOG)

LOG 125 - Transportation Logistics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is the study of the role that various modes of transportation play in products and services getting to the end user. Students will be able to identify transportation modes, understand governing regulations, describe terminology and principles, and understand environmental and economic impact.

Grade Type: Letter Grade

Division: Business Technology

LOG 215 - Supply Chain Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is the study of all activities between suppliers, producers and end users involving the flow of goods and services to include functions such as purchasing, manufacturing, assembling, and distribution. The student will understand supply chain units and materials management processes.

Grade Type: Letter Grade

Division: Business Technology

LOG 235 - Traffic Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course examines the flow of various traffic activities within an organization’s supply chain. The student will be able to compare transportation service providers, understand the issues facing transportation managers, and describe the impact of decisions on total supply chain costs.

Grade Type: Letter Grade

Division: Business Technology

LOG 240 - Purchasing Logistics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is the study of how purchasing impacts materials management, supply chain, transportation, and global logistics processes. The student will understand methods of electronic sourcing as well as negotiating and pricing principles.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Media Arts Production (MAP)

MAP 101 - Audio Techniques I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers an introduction to the tools and processes involved in audio production, including basic training in the operation of sound recording and playback systems. It is recommended that students enrolling in MAP 101 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 104 - Radio Production I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes an introduction to radio production techniques.

Prerequisite

MAP 101

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 110 - Editing I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

Spring
Summer

This course is an introduction to basic digital editing. Logical sequencing, technical correctness and creative storytelling will be emphasized. It is recommended that students enrolling in MAP 110 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 112 - Media Graphics I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is an introduction to editing techniques used to create motion graphics and visual effects. It is recommended that students enrolling in MAP 112 be familiar with basic computer functions and computer file management.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 120 - Image Production I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is the study of the basic skills and knowledge required to use a moving image camera. Camera controls and compositional elements are emphasized.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 122 - Field Production I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course introduces the setup, operation, and application of video equipment for field production.

Prerequisite

MAP 101

and

MAP 110

and

MAP 120

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 126 - Media Arts Photography

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers the fundamentals of camera operation and image composition as applied to media arts.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 130 - Lighting Fundamentals

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces students to the equipment, safety requirements, protocol and aesthetic techniques used in lighting digital and film productions.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 140 - Writing for Media Production

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is designed to teach writing techniques for radio, television, and other electronic media.

Prerequisite

RWR 100

and

basic computer skills

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 141 - Journalism for Media

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course covers the preparation of news in a form desirable for broadcasting and other electronic media.

Prerequisite

RWR 100

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 150 - Studio Production I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course covers the basics of studio operations with emphasis on lighting, cameras, floor management, and control room operations.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 190 - Introduction to Animation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers basic skills in professional 3-D modeling and animation software used by the animation, visual effects and video game industries.

Corequisite

ARV 217

or

MAP 112

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 191 - 3D Modeling

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers techniques used in creating rigid body, inorganic, polygonal geometric objects.

Prerequisite

MAP 190

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 192 - Character Animation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers techniques used in the modeling and animation of organic characters and creatures.

Prerequisite

MAP 190

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 193 - Animation Workflow

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course explains the principles of animation by adding and editing keyframes on a timeline. Emphasis is on the development of file structures, naming conventions and strategies that promote good workflow.

Prerequisite

MAP 192

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 194 - Gaming Animation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Summer

This course introduces students to game development through the creation of video game assets of a 3D game engine.

Prerequisite

MAP 190

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 195 - Visual Effects

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course emphasizes the principles of designing and producing node-based 3D computer animated visual effects. Projects focus on developing higher level skills in lighting, rendering, dynamics and fluids.

Prerequisite

MAP 191

and

Corequisite

ARV 136

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 198 - Animation Projects I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers the planning and execution required in producing an animated short film.

Prerequisite

MAP 193

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 201 - Audio Techniques II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course covers advanced audio production techniques.

Prerequisite

MAP 101

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 202 - Audio Techniques III

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course includes advanced projects in audio recording techniques.

Prerequisite

MAP 201

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 204 - Radio Production II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers advanced radio production techniques.

Prerequisite

MAP 104

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 205 - Radio Production III

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes advanced projects in radio production.

Prerequisite

MAP 204

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 207 - Sound for Picture

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers the basics of post-production sound for the moving image. Industry standard software will be used in the course.

Prerequisite

MAP 101

and

MAP 110

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 210 - Editing II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers advanced digital editing techniques.

Prerequisite

MAP 110

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 212 - Motion Graphics I

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers the practice and art of creating motion graphics and visual effects for media and film production.

Prerequisite

MAP 112

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 213 - Motion Graphics II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers advanced techniques and topics in motion graphics and visual effects for media and film production.

Prerequisite

MAP 212

or

Corequisite

ARV 136

Grade Type: Letter Grade

Division:

MAP 222 - Field Production II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course includes the processes involved in creating and organizing an idea to the final video product.

Prerequisite

MAP 122

and

MAP 140

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 223 - Interview and Discussion

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course covers the techniques for successfully interviewing people, whether for sound bites or for full-length interview programs.

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 224 - Field Production III

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course covers advanced techniques used to create and organize an idea to the final video product.

Prerequisite

MAP 222

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 226 - Producing and Directing

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

This course covers the planning and execution of production to create video programing across media platforms.

Prerequisite

MAP 110

and

MAP 120

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 243 - Scriptwriting

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is designed to teach students the techniques of writing for the visual medium. Emphasis will be placed on the split column and screenplay formats. The course will also emphasize the combination of visual images with sound.

Prerequisite

ENG 101

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 250 - Studio Production II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is a study of advanced studio operations, including camera movements, directing instructions, editing and sequential photography.

Prerequisite

MAP 150

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 265 - Media Arts Business Procedures

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of professional practices involved in the organization and operation of businesses involved in media production as well as professional practices of independent, freelance contractors.

18 semester hours in FLM and/or MAP courses

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 271 - SCWE in Media Arts Production I

Lec: 0 **Lab:** 12.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes supervised production experience at a media production location.

Prereq: 18 Hours in MAP courses and departmental approval for nondegree-seeking students

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 272 - SCWE in Media Arts Production II

Lec: 0 **Lab:** 12.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes supervised production experience at a media production location.

Prerequisite

MAP 271

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 273 - SCWE in Media Arts Production III

Lec: 0 **Lab:** 12.0 **Credit:** 3.0

Course Offered

Spring
Summer

This course includes supervised production experience at a media production location.

Prerequisite

MAP 272

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 280 - Media Arts Exit Portfolio

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the development of strategies for entering the media arts industry. Students will refine portfolio demo reels and resumes to meet professional standards.

Departmental approval

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

MAP 298 - Animation Projects II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring

This course covers the planning and execution required in producing an animated short film. This course is a continuation of Animation Projects I.

Prerequisite

MAP 193

with a minimum grade of C

Grade Type: Letter Grade

Division: Film, Media and Visual Arts

2024-2025 TTC Catalog - Mathematics (MAT)

MAT 001 - MAT 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for rigorous calculus-track mathematics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Science and Mathematics

MAT 002 - MAT 002

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for transfer-level mathematics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Science and Mathematics

MAT 031 - Developmental Mathematics Basics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the study of whole numbers, fractions, decimals, ratios, proportions and percents. Concepts are applied to real-world problem solving.

Appropriate placement

Grade Type: Pass/Fail

Division: Science and Mathematics

MAT 032 - Developmental Mathematics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the study of integers, rational numbers, percent, basic statistics, measurement, geometry and basic algebra concepts. Application skills are emphasized.

Prerequisite

MAT 031

or

appropriate placement

Grade Type: Pass/Fail

Division: Science and Mathematics

MAT 033 - Developmental Mathematics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the study of whole numbers, fractions, decimals, integers, rational numbers, ratios, percents, proportions, measurement, basic statistics, geometry, and basic algebra. Concepts are applied to real-world problem solving, and application skills are emphasized.

appropriate placement

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 101 - Beginning Algebra

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the study of rational numbers and their applications, operations with algebraic expressions, linear equations and applications, linear inequalities, graphs of linear equations, operations with exponents and polynomials, and factoring.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 102 - Intermediate Algebra

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the study of linear systems and applications; quadratic expressions, equations, functions, and graphs; and rational and radical expressions and functions.

Prerequisite

MAT 101

with a minimum grade of C

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 103 - Quantitative Reasoning

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is designed to develop quantitative reasoning and critical thinking skills. Topics include logic and computers, probability and statistics, financial mathematics, and additional applications selected to address areas of contemporary interest.

Prerequisite

MAT 033

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 110 - College Algebra

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the following topics: polynomial, rational, logarithmic and exponential functions; inequalities; systems of equations and inequalities; matrices; determinants; and solutions of higher degree polynomials.

Prerequisite

MAT 102

with a minimum grade of C

Grade Type: Letter Grade

Restrictions: Students who receive credit for MAT 110 may not receive credit for MAT 112.

Division: Science and Mathematics

MAT 111 - College Trigonometry

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the following topics: trigonometric functions, trigonometric identities, solution of right and oblique triangles, solution of trigonometric equations, polar coordinates, complex numbers including De Moivre’s Theorem, vectors, conic sections and parametric equations.

Prerequisite

MAT 110

with a minimum grade of C

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both MAT 111 and MAT 112.

Division: Science and Mathematics

MAT 112 - Precalculus

Lec: 5.0 **Lab:** 0 **Credit:** 5.0

Course Offered

Spring
Summer

This course includes algebraic, exponential, logarithmic and trigonometric functions and their graphs; analytic trigonometry; analytic geometry; and applications of trigonometry.

Prerequisite

MAT 102

with a grade of B or higher or appropriate placement

Grade Type: Letter Grade

Restrictions: Students who receive credit for MAT 112 may not receive credit for MAT 109, MAT 110 or MAT 111.

Division: Science and Mathematics

MAT 115 - Analytical Foundations for Calculus

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course focuses on fundamental concepts and skills of mathematics needed for calculus. Topics include: Linear equations, inequalities, absolute value, piecewise, polynomials, rational, and trigonometric functions, graphs, and applications.

Prerequisite

MAT 102

with a minimum grade of C or appropriate placement score

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 120 - Probability and Statistics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes introductory probability and statistics, including organization of data, sample space concepts, random variables, counting problems, binomial and normal distributions, central limit theorem, confidence intervals and test of hypothesis for large and small samples, type I and type II errors, linear regression, and correlation.

Corequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 123 - Contemporary College Mathematics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course provides an appreciation and understanding of the mathematics underlying several topics in contemporary society. Topics may include voting methods, apportionment problems, Euler and Hamilton circuits, population growth and fractals.

Corequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 130 - Elementary Calculus

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course includes differentiation and integration of polynomials; rational, logarithmic and exponential functions; and interpretation and application of these processes. This is a terminal course designed for students who do not wish to take additional calculus courses. Its transferability usually depends on the student’s major.

Prerequisite

or

MAT 110

or

MAT 112

with a minimum grade of C

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both MAT 130 and MAT 140.

Division: Science and Mathematics

MAT 132 - Discrete Mathematics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the following topics: mathematical logic and proofs; set operations; relations and digraphs; functions; recurrence relations; and combinatorics. (This course is designed primarily for computer science students.)

Prerequisite

MAT 110

or

MAT 111

or

Corequisite

MAT 112

or

Prerequisite or Corequisite

MAT 115

(with a grade of "C" or better in prerequisite choices listed) or appropriate placement.

Grade Type: Letter Grade

Division:

MAT 140 - Analytic Geometry and Calculus I

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course includes derivatives and integrals of polynomials; rational, logarithmic, exponential, trigonometric and inverse trigonometric functions; curve sketching; maxima and minima of functions; related rates; work; and analytic geometry.

Prerequisite

MAT 111

or

MAT 112

or

Corequisite

MAT 115

with a minimum grade of C

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both MAT 140 and MAT 130

Division: Science and Mathematics

MAT 141 - Analytic Geometry and Calculus II

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course continues calculus of one variable, including analytic geometry, techniques of integration, volumes by integration and other applications, infinite series including Taylor series, and improper integrals.

Prerequisite

MAT 140

with a minimum grade of C

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 155 - Contemporary Mathematics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes techniques and applications of the following topics: properties of and operations with real numbers, elementary algebra, consumer mathematics, applied geometry, measurement, graph sketching, interpretations and descriptive statistics.

Prerequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 170 - Algebra, Geometry and Trigonometry I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes elementary algebra, geometry, trigonometry and applications.

Corequisite

MAT 033

or appropriate placement

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 240 - Analytic Geometry and Calculus III

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers multivariable calculus including vectors, partial derivatives and their applications to maximum and minimum problems with and without constraints, line integrals, multiple integrals in rectangular and other coordinates, and Stokes' and Green's theorems.

Prerequisite

MAT 141

with a minimum grade of C

Grade Type: Letter Grade

Division: Science and Mathematics

MAT 242 - Differential Equations

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course includes solution of linear and elementary nonlinear differential equations by standard methods with sufficient linear algebra to solve systems, applications, series, Laplace transform and numerical methods.

Prerequisite

MAT 141

with a minimum grade of C

Grade Type: Letter Grade

Division: Science and Mathematics

2024-2025 TTC Catalog - Medical Assisting (MED)

MED 103 - Medical Assisting Introduction

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course introduces the profession of medical assisting, including qualification, duties and the role of the medical assistant. Students are introduced to medical law and ethics as well as management skills for medical office personnel.

Admission to the Medical Assisting Program

Grade Type: Letter Grade

Division: Health Sciences

MED 122 - Medical Assisting Lab Procedures I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course covers the beginning techniques of laboratory procedures commonly performed in a physician’s office and other clinical agencies.

Prerequisite

MED 103

and

Physical examination, major medical insurance, Hepatitis B vaccine series and current CPR certification

Grade Type: Letter Grade

Division: Health Sciences

MED 125 - Medical Assisting Advanced Laboratory

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides a continuation of the study of laboratory techniques commonly used in the physician office.

Prerequisite

AHS 142

and

MED 122

Grade Type: Letter Grade

Division: Health Sciences

MED 131 - Administrative Skills of Medical Office I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Summer

This course introduces the student to the environment of the medical office, the use of computers, patient scheduling, medical records management and written communications.

Grade Type: Letter Grade

Division: Health Sciences

MED 134 - Medical Assisting Financial Management

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course is the study of the daily financial practices, insurance coding, billing and collections, and accounting practices in the medical office environment.

Prerequisite

MED 131

Grade Type: Letter Grade

Division: Health Sciences

MED 135 - Medical Office Insurance I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course presents an introduction to health insurance concepts and practices commonly encountered in a medical practice, including a review of anatomy and physiology and the most common coding systems.

Grade Type: Letter Grade

Division: Health Sciences

MED 136 - Medical Office Insurance II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course presents a continuation of health insurance concepts commonly encountered in medical practice. Principles of managed care plans and common insurance requirements are presented, including instructions for and practice completing forms for the major insurance providers.

Prerequisite

MED 131

and

MED 135

Grade Type: Letter Grade

Division: Health Sciences

MED 141 - Medical Office Clinical Skills I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides instruction in examination room techniques, vital signs, interviewing, assisting with a physical examination, minor surgery and nutrition.

Grade Type: Letter Grade

Division: Health Sciences

MED 142 - Medical Office Clinical Skills II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides a continued study in medical assisting clinical skills with emphasis on pharmacology, dosage calculation and administration, medical specialties and emergencies.

Prerequisite

AHS 121

and

AHS 170

and

MED 141

Grade Type: Letter Grade

Division: Health Sciences

MED 151 - Medical Assisting Clinical I

Lec: 0.5 **Lab:** 10.5 **Credit:** 4.0

Course Offered

Spring

This course provides practical application of administrative and clinical skills in a physician’s office or ambulatory setting with emphasis on the student’s transition into the role of entry-level medical assistant while under the supervision of a certified medical assistant or qualified employee. This is a non-paid practicum experience.

Prerequisite

MED 125

and

MED 134

and

MED 136

and

MED 142

and

current CPR certification

Grade Type: Letter Grade

Division: Health Sciences

MED 152 - Medical Assisting Clinical II

Lec: 0.5 **Lab:** 10.5 **Credit:** 4.0

Course Offered

Spring

This course provides a continuation of practical application of administrative and clinical skills in a physician’s office or ambulatory setting, allowing students to build on knowledge and skills and to apply them in a setting different from that of their previous clinical experience. This is a non-paid practicum experience.

Prerequisite

MED 151

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Mechanical Engineering Technology (MET)

MET 001 - Mechanical Engineering Technology Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for mechanical engineering technology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Engineering and Construction

MET 233 - Applied Thermal Principles

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall

This course emphasizes the application of the laws of thermal science in the workplace. Systems covered include steam power, gas turbines, internal combustion, refrigeration, heat pumps, psychometry, air conditioning and heat transfer. Appropriate instrumentation for measuring temperature, pressure, flow, level and related phenomena will be utilized.

Prerequisite

ENG 101

Grade Type: Letter Grade

Division: Engineering and Construction

MET 237 - Fluids: Principles and Application

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Fall

This course covers the flow of incompressible fluids in pipes using the general energy equation. An analysis of proven hydraulic circuits is included. Compressible fluids will also be studied. Pneumatic systems applications will be explored.

Prerequisite

EGR 110
and
EGR 290
and
ENG 101

Grade Type: Letter Grade
Division: Engineering and Construction

2024-2025 TTC Catalog - Management (MGT)

MGT 001 - Management Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for management course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

MGT 101 - Principles of Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of management theories, emphasizing the management functions of planning, decision making, organizing, leading and controlling.

Grade Type: Letter Grade

Division: Business Technology

MGT 120 - Small Business Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of small business management and organization, forms of ownership, and the process of starting a new business.

Grade Type: Letter Grade

Division: Business Technology

MGT 121 - Small Business Operations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course is a study of the daily operations of an established small business, emphasizing staffing, recordkeeping, inventory control and marketing.

Grade Type: Letter Grade

Division: Business Technology

MGT 201 - Human Resource Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of personnel administration functions within a business organization. Major areas of study include job analysis; recruitment, selection and assessment of personnel; and salary and benefit administration.

Grade Type: Letter Grade

Division: Business Technology

MGT 210 - Employee Selection and Retention

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course examines how to identify and assess employment needs within an organization. Students will also study the functions of recruitment, selection and training with an emphasis on employee retention.

Grade Type: Letter Grade

Division: Business Technology

MGT 235 - Production Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of production management techniques used in a manufacturing environment. It covers forecasting, scheduling, inventory, work flow management and quality control.

Grade Type: Letter Grade

Division: Business Technology

MGT 240 - Management Decision Making

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of various structured approaches to managerial decision-making. Extensive case studies and applications are used to reinforce course topics.

Prerequisite

ACC 111

Grade Type: Letter Grade

Division: Business Technology

MGT 255 - Organizational Behavior

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of effective individual and group behavior in an organization to maximize productivity, and psychological and social satisfaction.

Grade Type: Letter Grade

Division: Business Technology

MGT 270 - Managerial Communication

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the skills used to create a climate for effective communication in the decision making and problem-solving process.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Marketing (MKT)

MKT 001 - Marketing Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for marketing course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

MKT 101 - Marketing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the field of marketing with a detailed study of the marketing concept and the processes of product development, pricing, promotion and marketing distribution.

Grade Type: Letter Grade

Division: Business Technology

MKT 110 - Retailing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the importance of retailing in American business and covers the concepts of store location, layout, merchandising, display, pricing, inventory control, promotional programs, profit management and e-commerce.

Grade Type: Letter Grade

Division: Business Technology

MKT 120 - Sales Principles

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the personal selling process with special emphasis on determining customer needs and developing effective communications and presentation skills.

Grade Type: Letter Grade

Division: Business Technology

MKT 130 - Customer Service Principles

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the importance of customer service satisfaction and the functions of various customer relations systems.

Grade Type: Letter Grade

Division: Business Technology

MKT 140 - E-Marketing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of electronic marketing. In addition to traditional marketing topics, special emphasis will be placed on internet marketing fundamentals, strategies, and trends.

Grade Type: Letter Grade

Division: Business Technology

MKT 240 - Advertising

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the role of advertising in the marketing of goods and services, including types of advertising, media, how advertising is created, agency functions and regulatory aspects of advertising.

Grade Type: Letter Grade

Division: Business Technology

MKT 245 - Promotional Strategies

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of promotion activities, focusing on coordinating an effective marketing campaign for a product or business, with promotion strategies planned and used to influence consumers, trade intermediaries, and sales forces.

Grade Type: Letter Grade

Division: Business Technology

MKT 250 - Consumer Behavior

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of the buying behavior process and how individuals make decisions to spend their available resources on consumption-related items.

Grade Type: Letter Grade

Division: Business Technology

MKT 260 - Marketing Management

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is a study of the marketing system from the decision-maker’s view, including how marketing strategies are planned and utilized in the marketplace.

Prerequisite

ENG 101

and

BUS 101

and

MGT 101

and

MKT 101

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Medical Laboratory Technology (MLT)

MLT 101 - Introduction to Medical Laboratory Technology

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course provides an introduction to laboratory medicine, including techniques for routine laboratory procedures, medical terminology, safety, and an overview of each area within the laboratory.

Prerequisite

AHS 104

Meet MLT program admission and progression requirements, health examination, major medical insurance, Hepatitis B vaccine series, current CPR certification and SLED check. and

AHS 142

and

BIO 112

and

CHM 110

Grade Type: Letter Grade

Division: Health Sciences

MLT 103 - Introductory Topics in Medical Microbiology

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Summer

This course introduces the medical microbiology lab including basic anatomy and physiology of microorganisms, specimen collection, quality assurance, infection control, bioterrorism/pandemics, and a survey of key microorganisms including bacteria, parasites, mycotic agents, viruses, and prions.

Prerequisite

MLT 101

Grade Type: Letter Grade

Division: Health Sciences

MLT 106 - Urinalysis and Body Fluids

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course is an introduction to the theoretical components of the analysis of urine and body fluids.

Prerequisite

MLT 101

Grade Type: Letter Grade

Division: Health Sciences

MLT 107 - Clinical Experience in Urinalysis and Body Fluids

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Summer

This course provides a clinically-based rotation which correlates cognitive and technical skills in urinalysis and body fluid analysis for the MLT student.

Prerequisite

MLT 101

and

MLT 106

Grade Type: Letter Grade

Division: Health Sciences

MLT 109 - Hematology I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course provides a study of the basic principles of hematology including terminology; cell basics and hematopoiesis. Additional topics include automated, manual, and molecular techniques used in diagnosis and treatment.

Corequisite

MLT 101

Grade Type: Letter Grade

Division: Health Sciences

MLT 111 - Hematology II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course provides a study of the basic principles of hematology including terminology; red blood cell (RBC) function; RBC morphology and inclusions; hemoglobinopathies and other RBC defects, plus automated, manual, and molecular techniques used in diagnosis and treatment of erythropoietic problems.

Prerequisite

MLT 109

Grade Type: Letter Grade

Division: Health Sciences

MLT 115 - Immunology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course provides a study of the immune system, disease states and the basic principles of immunological testing.

Prerequisite

MLT 101

and

MLT 111

Grade Type: Letter Grade

Division: Health Sciences

MLT 116 - Basic Concepts of Blood Banking

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course introduces the theory and basic practice of introductory blood banking skills, including ABO, Rh, and other blood group systems Q and antibody screening.

Prerequisite

MLT 115

Grade Type: Letter Grade

Division: Health Sciences

MLT 135 - Clinical Chemistry and Instrumentation

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the chemical elements in human specimens and their relationship to organ system function. It provides theory and application of laboratory instrumentation used in measuring chemical elements in human specimens, calibration, QC, interferences and clinical correlation

Prerequisite

MLT 101

Grade Type: Letter Grade

Division: Health Sciences

MLT 206 - Advanced Microbiology I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides a study of gram positive cocci, gram negative cocci, gram positive bacilli, fastidious gram negative bacilli, spirochetes and mycoplasma, including currently accepted procedures for identification and susceptibility testing of these microorganisms in the clinical laboratory.

Prerequisite

MLT 103

Grade Type: Letter Grade

Division: Health Sciences

MLT 207 - Advanced Microbiology II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course is a study of gram negative bacilli, obligate anaerobes, viruses, mycobacteria and fungi, including currently accepted procedures for identification of these microorganisms in the clinical laboratory, and an overview of specific disease processes associated with microorganisms.

Prerequisite

MLT 206

Grade Type: Letter Grade

Division: Health Sciences

MLT 211 - Advanced Hematology I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides a study of the basic principles of hemostasis including terminology; automated, manual and molecular techniques used in diagnosis and treatment of hemostatic problems; and discussions of normal and abnormal hemostatic function. Discussions of normal leukopoietic function, benign leukopoietic diseases, and the techniques used in diagnosis and treatment of benign leukopoietic diseases will be included.

Prerequisite

MLT 111

Grade Type: Letter Grade

Division: Health Sciences

MLT 212 - Advanced Hematology II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides a study of the basic principles of hematology including terminology; automated, manual and molecular techniques used in diagnosis and

treatment of leukopoietic problems; leukocyte function; leukocyte morphology and inclusions, and other leukocyte defects.

Prerequisite

MLT 211

Grade Type: Letter Grade

Division: Health Sciences

MLT 216 - Advanced Skills in Blood Banking

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course introduces advanced theory and advanced blood banking skills, including antibody identification and donor compatibility testing.

Prerequisite

MLT 116

Grade Type: Letter Grade

Division: Health Sciences

MLT 271 - Clinical Applications I

Lec: .5 **Lab:** 7.5 **Credit:** 3.0

Course Offered

Spring

This course provides clinical experience in a supervised setting for developing technical proficiency in routine chemistry laboratory procedures.

Prerequisite

MLT 135

Grade Type: Letter Grade

Division: Health Sciences

MLT 272 - Clinical Applications II

Lec: .5 **Lab:** 7.5 **Credit:** 3.0

Course Offered

Spring

This course provides clinical experience in a supervised setting for developing technical proficiency in routine microbiology laboratory procedures.

Prerequisite

MLT 207

Grade Type: Letter Grade

Division: Health Sciences

MLT 273 - Clinical Applications III

Lec: .5 **Lab:** 7.5 **Credit:** 3.0

Course Offered

Spring

This course provides clinical experience in a supervised setting for developing technical proficiency in routine hematology laboratory procedures.

Prerequisite

MLT 212

Grade Type: Letter Grade

Division: Health Sciences

MLT 274 - Clinical Applications IV

Lec: .5 **Lab:** 7.5 **Credit:** 3.0

Course Offered

Spring

This course provides clinical experience in a supervised setting for developing technical proficiency in routine immunohematology laboratory procedures.

Prerequisite

MLT 216

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Marine and Nautical Technology Non-Equivalent (MNT)

MNT 001 - Marine and Nautical Technology Non-Equiivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for marine and nautical technology course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Machine Tool Technology (MTT)

MTT 001 - Machine Tool Technology Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** 0

Indicates credit given for machine tool technology course work transferred from another college for which there is no equivalent course at TTC.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 101 - Introduction to Machine Tool

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

This course covers the basics in measuring tools, layout tools and bench tools; and basic operations of lathes, mills and drill presses.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 111 - Machine Tool Theory and Practice I

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

Course Offered

Fall

This course is an introduction to the basic operation of machine shop equipment.

Prerequisite or Corequisite

MTT 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 112 - Machine Tool Theory and Practice II

Lec: 1.0 **Lab:** 12.0 **Credit:** 5.0

Course Offered

Spring

This course is a combination of the basic theory and operation of machine shop equipment.

Prerequisite or Corequisite

MTT 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 114 - 3D Printing Theory and Operations

Lec: 2.0 **Lab:** 6.0 **Credit:** 4.0

Course Offered

Fall

This course is the study of 3D printing processes, materials, and machine operations.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 120 - Machine Tool Print Reading

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is designed to develop the basic skills and terminology required for visualization and interpretation of common prints used in the machine tool trades.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 143 - Precision Measurements

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring

This course is a study of precision measuring instruments.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 145 - Machining of Metals

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course covers theoretical and practical training in the physical properties of metals, their required stock removal/speeds/feeds and depths of cut, and finish requirements.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 175 - Innovations in Machining Technology

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers changes in machining technologies, major advancements in the machine tool field, or specialty training items.

Prerequisite

MTT 111

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 243 - Advanced Dimensional Metrology for Machinists

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of higher levels of measurement, measuring instruments, and measuring techniques. The course consists of a theoretical and practical study incorporating the metric system, geometric dimensioning/tolerancing, sine bars/plates for compound angles and more.

Completion of a Machine Tool Technology Degree or Certificate program.

Corequisite

MTT 255

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 250 - Principles of CNC

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is an introduction to the coding used in CNC programming.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 251 - CNC Operations

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Spring
Summer

This course is a study of CNC machine controls, setting tools, and machine limits and capabilities.

Corequisite

MTT 250

and

MTT 253

or

departmental approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 253 - CNC Programming and Operations

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course is a study of the planning, programming, selecting, tooling, determining speeds and feeds, setting, operating and testing of CNC programs on CNC machines.

Corequisite

MTT 250

or

advisor approval

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 255 - CNC Programming II

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall

This course includes CNC programming with simulated production conditions.

Completion of Machine Tool Technology Degree or Certificate program.

Corequisite

MTT 243

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 258 - CNC Machine Tool Cam

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course is a study of computer assisted manufacturing graphics systems needed to create CNC programs.

Prerequisite

MTT 243

and

MTT 255

Corequisite

MTT 260

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

MTT 260 - Advanced Multi-Axis Programming and Ops I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of programming advanced CNC multi-axis machines, setting of tools, machine limits. capabilities, and safety.

Prerequisite

MTT 243

and

MTT 255

Corequisite

MTT 258

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Music (MUS)

MUS 105 - Music Appreciation

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the study of music focusing on the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and genres of various Western and non-Western historical style periods, and appropriate listening experiences.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

MUS 110 - Music Fundamentals

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is an introduction to the elements of music and music notation with keyboard applications.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Nursing (NUR)

NUR 100 - Pre-Nursing

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall

This course covers an exploration of nursing and other health care careers as a possible career choice and explores strategies to be successful in a clinical nursing course.

Prerequisite

ENG 101

Grade Type: Pass/Fail

Restrictions: Restricted to students in the PN or ADN program. Students who have completed more than 8 credits of NUR courses are not eligible to take this course. Only students who had an unsuccessful attempt in NUR 102 or NUR 104 are eligible.

Division: Nursing

NUR 102 - Basic Nursing Care Skills

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring

This course introduces basic nursing care skills, which are applied in long-term care and acute care settings.

CPR certification and all required immunizations/titers/tests including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements

Corequisite

BIO 210

Grade Type: Letter Grade

Restrictions: Restricted to students in the PN or ADN program.

Division: Nursing

NUR 104 - Nursing Care Management I

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall
Spring

This course focuses on the knowledge, skills and abilities that are fundamental to nursing practice with application in acute or extended care settings.

Prerequisite

Successful completion of PN level Dosage Calculation Proficiency

or

AHS 126

and

NUR 102

and

CPR certification and all required immunizations/titers/tests including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-services requirements.

Corequisite

ENG 101

and

PSY 201

Grade Type: Letter Grade

Division: Nursing

NUR 105 - Pharmacology for Nurses

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course is an introduction to the basic concepts of pharmacology related to drug administration for identified health problems.

Corequisite

NUR 205

Grade Type: Letter Grade

Division: Nursing

NUR 158 - Health Promotion for Families I

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall
Spring

This course focuses on nursing care of the childbearing and childrearing families experiencing normal developmental changes and common health problems.

Prerequisite

NUR 104

and

CPR certification, all required immunizations/titers/tests including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Prerequisite or Corequisite

BIO 211

and

PSY 203

Grade Type: Letter Grade

Division: Nursing

NUR 161 - Basic Concepts of Pharmacology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course is an introductory study to pharmacotherapeutics, including drug classifications and clinical implications for clients.

Prerequisite

NUR 104

Corequisite

NUR 195

Grade Type: Letter Grade

Division: Nursing

NUR 195 - Patient-Centered Nursing Care I

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall
Spring

This course focuses on the delivery of patient-centered care to individuals experiencing selected physiological and psychosocial health problems.

Prerequisite

NUR 104

and

CPR certification, all required immunizations/titers/test, including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Corequisite

BIO 211

and

NUR 161

Grade Type: Letter Grade

Division: Nursing

NUR 201 - Transition Nursing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course facilitates the transition of the practical nurse graduate to the role of the associate degree nursing student. Students who have achieved advanced placement status examine the implications inherent in the role change to that of registered nurse.

Prerequisite

BIO 210

and

ENG 101

and

PSY 201

Corequisite

Completion of the ADN-level Dosage Calculation Proficiency

or

AHS 129

and

BIO 211

and

PSY 203

Grade Type: Letter Grade

Division: Nursing

NUR 205 - Patient-Centered Nursing Care II

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course focuses on the delivery of patient-centered care to individuals experiencing selected physiological and psychosocial health problems.

Prerequisite

NUR 158

and

NUR 161

and

NUR 195

and

CPR certification, all required immunizations/titers/test, including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Corequisite

NUR 105

Grade Type: Letter Grade

Division: Nursing

NUR 206 - Clinical Skills Application

Lec: 0 **Lab:** 6.0 **Credit:** 2.0

Course Offered

Summer

This course involves the application of knowledge, skills and abilities in a clinical setting of the student's choice.

16 semester hours in NUR courses to include NUR 104, BIO 211, PSY 203, CPR certification, all required immunizations/titers/tests including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Grade Type: Pass/Fail

Restrictions: Restricted to students in ADN program.

Division: Nursing

NUR 208 - Health Promotion for Families II

Lec: 2.5 **Lab:** 4.5 **Credit:** 4.0

Course Offered

Fall
Spring

This course focuses on reproductive health and nursing care of the childbearing and childrearing families experiencing acute and chronic health problems in the acute care setting.

Prerequisite

BIO 211

and

ENG 101

and

NUR 158

or

NUR 201

and

NUR 195

and

PSY 203

and

CPR certification, and all required immunizations/titers/tests including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Corequisite

BIO 225

Grade Type: Letter Grade

Restrictions: Restricted to students in ADN program.

Division: Nursing

NUR 210 - Complex Health Problems

Lec: 2.0 **Lab:** 9.0 **Credit:** 5.0

Course Offered

Fall
Spring

This course expands application of the nursing process in meeting the needs of patients with complex health problems, both physiological and psychosocial.

Prerequisite

Successful completion of ADN-level Dosage Calculation Proficiency

or

AHS 129

and

NUR 105

and

NUR 161

and

NUR 195

and

NUR 205

and

NUR 208

and

BIO 225

and

CPR certification, all required immunizations/ titers/tests, including the Hepatitis B series, major medical insurance, drug screen, criminal background check and

mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Grade Type: Letter Grade

Division: Nursing

NUR 216 - Nursing Seminar

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course is an exploration of concepts related to selected nursing topics. Students in the Associate Degree Nursing (ADN) program who are unsuccessful the first time they take the designated exit exam will place into this course for individualized NCLEX-RN preparation.

Unsuccessful completion of the ADN-level exit exam

Corequisite

NUR 219

Grade Type: Pass/Fail

Division: Nursing

NUR 219 - Nursing Management and Leadership

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course prepares the student for the professional nursing role through the introduction of management skills required to care for small groups of individuals and to function as a leader of a nursing team. Students successfully completing this course are eligible to apply to take the NCLEX-RN to become a registered nurse.

Prerequisite

NUR 206

and

NUR 210

and

CPR certification, all required immunizations/titers/tests, including the Hepatitis B vaccine series, major medical insurance, drug screen, criminal background check and mandatory in-service requirements. Clinical requirements must not expire during the semester in which the course is taken.

Prerequisite or Corequisite

Demonstration of proficiency on the ADN-level exit exam

or

NUR 216

Grade Type: Letter Grade

Division: Nursing

2024-2025 TTC Catalog - Occupational Therapy Assistant (OTA)

OTA 101 - Fundamentals of Occupational Therapy

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course introduces basic principles in occupational therapy, including the philosophy, history, current trends, emerging practice areas, models and theories of the profession. The Occupational Therapy Framework is also discussed. Included will be discussions of the impact of cultural, socioeconomic and political factors on the provision of OT services.

Grade Type: Letter Grade

Restrictions: Restricted to OTA majors

Division: Health Sciences

OTA 102 - Therapeutic Processes

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Summer

This course will develop the student’s knowledge of the occupational therapy process. The course will explore the evaluation process, intervention planning and implementation, outcomes assessment, therapeutic relationships, cultural implications, and professional relationships within OT practice.

Grade Type: Letter Grade

Restrictions: Restricted to OTA majors

Division: Health Sciences

OTA 105 - Therapeutic Analysis in Occupational Therapy

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course focuses on observation and analysis of therapeutic exercise, activities and human occupations across the life span. Course work incorporates hands-on experience into the application of therapeutic interventions.

Grade Type: Letter Grade

Restrictions: Restricted to OTA majors

Division: Health Sciences

OTA 142 - OTA Clinical Introduction I

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Summer

This course introduces fundamental knowledge and the application of professional behaviors during the provision of occupational therapy services. Students will learn observation and interaction skills under the guidance and direction of fieldwork supervisors.

CPR certification, major medical insurance and current physical examination

Grade Type: Pass/Fail

Restrictions: Restricted to OTA majors

Division: Health Sciences

OTA 144 - OTA Clinical Introduction II

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall

This course facilitates continued development of observation and interaction skills in an occupational therapy setting under the guidance and direction of fieldwork supervisors. This course focuses on the psychosocial issues of clients across the life span in various settings.

Prerequisite

OTA 142

Grade Type: Pass/Fail

Division: Health Sciences

OTA 155 - Gerontology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course explores the role of occupational therapy with the elderly population, including physical, cognitive and psychosocial changes of aging, sensory loss and compensation. Disease processes and occupational therapy evaluation and treatment principles are emphasized.

Prerequisite

OTA 101

Grade Type: Letter Grade

Division: Health Sciences

OTA 162 - Psychosocial Dysfunction

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course examines the occupational therapy process related to psychosocial challenges across the life span. Topics include pathologies, interventions, and promotion of health and wellness.

Grade Type: Letter Grade

Division: Health Sciences

OTA 164 - Physical Dysfunction

Lec: 5.0 **Lab:** 3.0 **Credit:** 6.0

Course Offered

Fall

This course is designed to develop the knowledge and skills necessary for treatment of adult individuals with physical dysfunctions. Topics include pathology, assessments, interventions, health and wellness, and the impact of cultural and socioeconomic factors on health.

Prerequisite

OTA 101

Grade Type: Letter Grade

Division: Health Sciences

OTA 176 - Pediatric Development and Dysfunction

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course addresses normal growth and development, disabilities, and delays from birth through adolescence. Topics include assessments, treatment planning and interventions in various practice settings.

Prerequisite

OTA 101

Grade Type: Letter Grade

Division: Health Sciences

OTA 203 - Kinesiology for Occupational Therapy

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course includes identification and analysis of the components of human motion related to occupational therapy. Muscle, bone and joint structure as it relates to human motion will be emphasized.

Grade Type: Letter Grade

Restrictions: Restricted to OTA majors

Division: Health Sciences

OTA 245 - Occupational Therapy Departmental Management

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course provides a study of the roles, responsibilities, supervision and management of occupational therapy services. This course introduces students to current management principles, including reimbursement and continuous quality improvement measures and the role of research within the profession.

Prerequisite

OTA 101

Grade Type: Letter Grade

Division: Health Sciences

OTA 262 - OTA Clinical Application I

Lec: 0 **Lab:** 21.0 **Credit:** 7.0

Course Offered

Spring

This course provides clinical experiences under the direct supervision of an experienced OTR or COTA, enabling students to transition into the role of entry level OTA. Students are assigned to various settings working with individuals with developmental, physical or emotional challenges.

Prerequisite

OTA 144

Grade Type: Letter Grade

Division: Health Sciences

OTA 264 - OTA Clinical Application II

Lec: 0 **Lab:** 21.0 **Credit:** 7.0

Course Offered

Spring

Under the direct supervision of an experienced OTR or COTA, students will build on acquired knowledge and skills as they further develop into entry-level OTA practitioners. Students will be assigned to a practice setting that offers different experiences from those provided in OTA 262.

Prerequisite

OTA 262

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Physical Education (PHE)

PHE 102 - Weightlifting

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

This course introduces the principles of weightlifting and the techniques to apply them safely and effectively.

Grade Type: Pass/Fail

Division: Health Sciences

PHE 104 - Beginner Aerobics

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

This course is designed to teach aerobic exercise, including safety and techniques to maximize effectiveness of an exercise program.

Grade Type: Letter Grade

Division: Health Sciences

PHE 106 - Aerobic Dance

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

This course introduces aerobic dance skills and the elements involved in safe and effective aerobic dance routines.

Grade Type: Pass/Fail

Division: Health Sciences

PHE 108 - High/Low Impact Aerobics

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

This course introduces high impact and low impact aerobic skills and the techniques to apply them safely and effectively.

Grade Type: Pass/Fail

Division: Health Sciences

PHE 110 - Cardio and Toning

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course introduces the principles of cardio exercise and toning and the techniques to apply them safely and effectively.

Grade Type: Pass/Fail

Division: Health Sciences

PHE 112 - Yoga

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

This course introduces the science of yoga and the techniques to apply it safely and effectively.

Grade Type: Pass/Fail

Division: Health Sciences

2024-2025 TTC Catalog - Philosophy (PHI)

PHI 101 - Introduction to Philosophy

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes a topical survey of the three main branches of philosophy – epistemology, metaphysics and ethics – and contemporary questions related to these branches.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

PHI 105 - Introduction to Logic

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course is an introduction to the structure of argument, including symbolization, proofs, formal fallacies, deductions and inductions.

Prerequisite

RWR 100

Grade Type: Letter Grade

Division: Humanities and Social Sciences

PHI 110 - Ethics

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

Summer

This course is a study of moral principles of conduct emphasizing ethical problems and modes of ethical reasoning.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Physics (PHY)

PHY 001 - Physics Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for physics course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Science and Mathematics

PHY 201 - Physics I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This is the first in a two-semester sequence of non-calculus-based physics courses. Topics covered in the sequence include mechanics, wave motion, sound, heat, electromagnetism, optics and modern physics. The first semester focuses on mechanics, gravity, fluids, thermodynamics, mechanical waves and sound. Laboratory exercises supplement lectures.

Prerequisite

MAT 111

or

MAT 112

or

Corequisite

MAT 115

Students may not receive credit for both PHY 201 and PHY 221. The prerequisite for this course should have been completed in the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

PHY 202 - Physics II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This is the second in a two-semester sequence of non-calculus-based physics. Topics covered in the sequence include mechanics, wave motion, sound, heat electromagnetism, optics and modern physics. The second semester focuses on electromagnetic forces, fields and waves, circuits, optics, relativity, quantum mechanics, and atomic and nuclear physics. Laboratory exercises supplement lectures.

Prerequisite

PHY 201

with a minimum grade of C. The prerequisite should have been completed in the last five years.

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both PHY 202 and PHY 222

Division: Science and Mathematics

PHY 221 - University Physics I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This is the first of a sequence of courses. The course is a calculus-based treatment of vectors, laws of motion, rotation, vibratory and wave motion. Laboratory exercises supplement lectures.

Prerequisite

MAT 140

The prerequisite should have been completed in the last five years.

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both PHY 221 and PHY 201.

Division: Science and Mathematics

PHY 222 - University Physics II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course is a continuation of calculus-based treatment of thermodynamics, kinetic theory of gases, electricity and magnetism, and light, including electrostatics, dielectrics, electric circuits, electric and magnetic fields and induction phenomena, geometric and physical optics, and relativity. Laboratory exercises supplement lectures.

Prerequisite

MAT 141

and

PHY 221

with a minimum grade of C

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both PHY 222 and PHY 202.

Division: Science and Mathematics

2024-2025 TTC Catalog - Political Science and Government (PSC)

PSC 201 - American Government

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of national governmental institutions with emphasis on the Constitution; the functions of executive, legislative and judicial branches; civil liberties; and the role of the electorate.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

PSC 215 - State and Local Government

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of state, county and municipal government systems, including interrelationships among these systems and within the federal government.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

PSC 220 - Introduction to International Relations

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course introduces the major forces and factors influencing world affairs, with emphasis on the role of the United States in the global community and the impact of growing interdependence on daily living.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Psychology (PSY)

PSY 201 - General Psychology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the following topics and concepts in the science of behavior: scientific method, biological basis for behavior, perception, motivation, learning, memory, development, personality, abnormal behavior, therapeutic techniques and social psychology.

Prerequisite

RWR 100

with a minimum grade of C

Grade Type: Letter Grade

Division: Humanities and Social Sciences

PSY 203 - Human Growth and Development

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the physical, cognitive, and social factors affecting human growth, development, and potential.

Prerequisite

PSY 201

Grade Type: Letter Grade

Division: Humanities and Social Sciences

PSY 212 - Abnormal Psychology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of the nature and development of behavioral disorders, including the investigation of contemporary treatment procedures.

Prerequisite

PSY 201

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Physical Therapist Assistant (PTH)

PTH 101 - Physical Therapy Professional Preparation

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course introduces the purpose, philosophy and history of physical therapy and medical and legal documentation.

Physical examination

Grade Type: Letter Grade

Restrictions: Restricted to PTA majors

Division: Health Sciences

PTH 118 - Physical Agents and Modalities

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course prepares students to administer physical therapy intervention using physical agents and modalities.

Grade Type: Letter Grade

Division: Health Sciences

PTH 205 - Physical Therapy Functional Anatomy

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course introduces basic concepts and principles of muscles, joints and motion, including traditional testing procedures.

Grade Type: Letter Grade

Division: Health Sciences

PTH 210 - Patient Care Techniques

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course introduces basic patient care skills in physical therapy: treatment procedures (positioning and draping, transfer techniques, gait training, wheelchair management and architectural barrier), safety and body mechanics, assessment of vital signs, and data collection methods are covered.

Admission to PTA Program

Grade Type: Letter Grade

Division: Health Sciences

PTH 221 - Pathology I

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course introduces the basic pathophysiology of the body with emphasis on the body’s reaction to disease and injury.

Grade Type: Letter Grade

Division: Health Sciences

PTH 222 - Pathology II

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course is a continuation of the pathologies commonly treated in physical therapy with emphasis on etiology, clinical picture, diagnosis and treatment.

Grade Type: Letter Grade

Division: Health Sciences

PTH 235 - Interpersonal Dynamics

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course introduces the dynamics of the health professional/patient relationship.

Grade Type: Letter Grade

Restrictions: Restricted to PTA majors

Division: Health Sciences

PTH 240 - Therapeutic Exercises/Applications

Lec: 4.0 **Lab:** 3.0 **Credit:** 5.0

Course Offered

Fall

This course provides the practical application of therapeutic exercise.

Grade Type: Letter Grade

Division: Health Sciences

PTH 242 - Orthopedic Management

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course introduces basic orthopedic assessment skills and application of treatment techniques for the trunk and extremities.

Grade Type: Letter Grade

Division: Health Sciences

PTH 244 - Rehabilitation

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course introduces neurological principles, pathology and specialized rehabilitation techniques for pediatric and adult care.

Grade Type: Letter Grade

Division: Health Sciences

PTH 250 - Special Topics in Physical Therapy

Lec: 0.5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Spring

This course is a study in current topics related to the field of physical therapy. It also covers competencies required to progress to clinic and review for licensure examination.

Grade Type: Letter Grade

Division: Health Sciences

PTH 252 - Clinical Practice

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course introduces elementary clinical procedures involved in the patient care setting.

Prerequisite

PTH 101

CPR certification, major medical insurance and current physical examination, including immunizations and titers.

Grade Type: Pass/Fail

Division: Health Sciences

PTH 266 - Physical Therapy Practicum I

Lec: 0 **Lab:** 18.0 **Credit:** 6.0

Course Offered

Fall

This course includes patient treatments under the direct supervision of a licensed physical therapist and/or licensed physical therapist assistant.

Prerequisite

PTH 252

Grade Type: Letter Grade

Division: Health Sciences

PTH 275 - Advanced Professional Preparation

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Spring

This course focuses on skills needed to enter the professional arena including résumé writing, interviewing, professional decision making, and preparation for the PTA National Board Examination.

Grade Type: Letter Grade

Restrictions: Restricted to PTA majors

Division: Health Sciences

PTH 276 - Physical Therapy Practicum II

Lec: 0 **Lab:** 18.0 **Credit:** 6.0

Course Offered

Spring

This course includes practicum experience in a clinical setting using advanced and specialized skills under the supervision of a licensed physical therapist and/or licensed physical therapist assistant.

Prerequisite

PTH 266

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Quality (QAT)

QAT 001 - Quality Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for quality course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Business Technology

QAT 110 - Manufacturing Methods

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course introduces students to the theory and practices of fundamental production manufacturing methods.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Radiologic Technology (RAD)

RAD 101 - Introduction to Radiography

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course introduces radiologic technology with emphasis on orientation to the radiology department, ethics and basic radiation protection.

Prerequisite

MAT 110

and

BIO 210

and

BIO 211

Grade Type: Letter Grade

Restrictions: Restricted to RAD majors

Division: Health Sciences

RAD 102 - Radiology Patient Care Procedures

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course provides a study of the procedures and techniques used in the care of the diagnostic imaging patient.

Prerequisite

BIO 210

and

BIO 211

and

MAT 110

Grade Type: Letter Grade

Restrictions: Restricted to RAD majors

Division: Health Sciences

RAD 121 - Radiographic Physics

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Summer

This course introduces the principles of radiographic physics, incorporating theory and application of basic principles underlying the operation and maintenance of X-ray equipment.

Prerequisite

BIO 210

and

BIO 211

and

MAT 110

Grade Type: Letter Grade

Restrictions: Restricted to RAD majors

Division: Health Sciences

RAD 127 - Procedures in Radiography I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides an introduction to radiographic procedures. Positioning of the chest and abdomen is included.

Prerequisite

RAD 101

and

RAD 102

Grade Type: Letter Grade

Division: Health Sciences

RAD 128 - Procedures in Radiography II

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Fall

This course provides an introduction to radiographic procedures. Positioning of the shoulder and upper extremities is included.

Prerequisite

RAD 127

Grade Type: Letter Grade

Division: Health Sciences

RAD 129 - Radiographic Positioning I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course is a study of radiographic procedures. Positioning of the lower extremities and pelvis is included.

Prerequisite

RAD 128

Grade Type: Letter Grade

Division: Health Sciences

RAD 139 - Radiographic Positioning II

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Spring

This course is a study of radiographic procedures. Positioning of the bony thorax and upper spinal column is included.

Prerequisite

RAD 129

Grade Type: Letter Grade

Division: Health Sciences

RAD 150 - Clinical Applications I

Lec: 0 **Lab:** 12.0 **Credit:** 4.0

Course Offered

Summer

This course includes practice of hands-on clinical skills in hospital/outpatient environments.

Prerequisite

RAD 165

Grade Type: Letter Grade

Division: Health Sciences

RAD 155 - Applied Radiography I

Lec: 0 **Lab:** 15.0 **Credit:** 5.0

Course Offered

Fall

This course introduces the clinical environment of the hospital by providing basic use of the radiographic equipment and routine radiographic procedures.

Prerequisite

RAD 101

and

RAD 102

and

RAD 121

Grade Type: Letter Grade

Division: Health Sciences

RAD 165 - Applied Radiography II

Lec: 0 **Lab:** 15.0 **Credit:** 5.0

Course Offered

Spring

This course allows students to receive instruction in the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital.

Prerequisite

RAD 155

Grade Type: Letter Grade

Division: Health Sciences

RAD 180 - Introduction to Radiographic Imaging I

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Fall

This course provides instruction in the fundamental principles and controlling factors of X-ray and image production.

Prerequisite

RAD 121

Grade Type: Letter Grade

Division: Health Sciences

RAD 181 - Imaging Principles I

Lec: .5 **Lab:** 1.5 **Credit:** 1.0

Course Offered

Spring

This course provides instruction in the imaging techniques related to conventional and digital radiography.

Prerequisite

RAD 280

Grade Type: Letter Grade

Division: Health Sciences

RAD 201 - Radiation Biology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course provides instruction in the principles of radiobiology and protection. It emphasizes procedures that minimize radiation exposure of patients, personnel and the population at large.

Prerequisite

RAD 281

Grade Type: Letter Grade

Division: Health Sciences

RAD 205 - Radiographic Pathology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course provides a survey of disease processes significant to the radiographer, including etiology, diagnosis, prognosis and treatment.

Prerequisite

RAD 230

Grade Type: Letter Grade

Division: Health Sciences

RAD 225 - Selected Radiographic Topics

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course is a study of selected areas related to radiography.

Prerequisite

RAD 205

Grade Type: Letter Grade

Division: Health Sciences

RAD 230 - Radiographic Procedures III

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course provides instruction in special radiographic procedures.

Prerequisite

RAD 236

Grade Type: Letter Grade

Division: Health Sciences

RAD 235 - Radiographic Seminar I

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Spring

This course is a study of instruction in the advanced imaging technologies that are unique to the needs of the profession.

Prerequisite

RAD 225

Grade Type: Letter Grade

Division: Health Sciences

RAD 236 - Radiography Seminar II

Lec: 1.0 **Lab:** 3.0 **Credit:** 2.0

Course Offered

Summer

This course includes selected areas of radiography that require additional study or application.

Prerequisite

RAD 139

Grade Type: Letter Grade

Division: Health Sciences

RAD 257 - Advanced Radiography I

Lec: 0 **Lab:** 21.0 **Credit:** 7.0

Course Offered

Fall

This course includes independently performing routine procedures in a radiology department, including involvement in advanced radiographic procedures.

Prerequisite

RAD 150

Grade Type: Letter Grade

Division: Health Sciences

RAD 267 - Advanced Radiography II

Lec: 0 **Lab:** 21.0 **Credit:** 7.0

Course Offered

Spring

This course includes independently performing routine and advanced radiographic procedures while continuing to build self-reliance and confidence in the clinical atmosphere.

Prerequisite

RAD 257

Grade Type: Letter Grade

Division: Health Sciences

RAD 280 - Advanced Imaging I

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall

This course provides instruction in the advanced imaging technologies that are unique to the needs of the profession.

Prerequisite

RAD 180

Grade Type: Letter Grade

Division: Health Sciences

RAD 281 - Advanced Imagining II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course provides advanced instruction in contemporary imaging technologies and applications.

Prerequisite

RAD 181

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Religion (REL)

REL 101 - Introduction to Religion

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course provides a study of religion and the nature of religious beliefs and practices and their influence on culture, history and philosophy.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Respiratory Care (RES)

RES 110 - Cardiopulmonary Science I

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Summer

This course focuses on assessment, treatment and evaluation of patients with cardiopulmonary disease.

Corequisite

RES 121

Grade Type: Letter Grade

Restrictions: Restricted to RES majors.

Division: Health Sciences

RES 111 - Pathophysiology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course is a study of the general principles and analyses of normal and diseased states.

Prerequisite

RES 110

Grade Type: Letter Grade

Division: Health Sciences

RES 112 - Cardiopulmonary Pathophysiology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of advanced principles and analyses of normal and diseased states of the cardiopulmonary system.

Prerequisite

RES 111

Grade Type: Letter Grade

Division: Health Sciences

RES 121 - Respiratory Skills I

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Summer

This course includes a study of basic respiratory therapy procedures and their administration. This course presents the theory of equipment and procedures for patients requiring general cardiopulmonary care. Emphasis is on medical gas therapy, aerosol and humidity therapy.

Corequisite

RES 110

Grade Type: Letter Grade

Division: Health Sciences

RES 131 - Respiratory Skills II

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Fall

This course is a study of selected respiratory care procedures and applications. Emphasis is on chest physics therapy, suctioning, airway care and specific procedures regarding airway clearance and maintenance. Lab data, chest tubes, chest X-rays and arterial blood gasses are included. Chest tube drainage systems and chest X-ray interpretation also are included.

Prerequisite

RES 121

Grade Type: Letter Grade

Division: Health Sciences

RES 140 - Introduction to Mechanical Ventilation

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course focuses on theory and techniques used for mechanical ventilation. The student is introduced to protocols and procedures for adjusting mechanical ventilation.

Prerequisite

RES 131

and

RES 246

Grade Type: Letter Grade

Division: Health Sciences

RES 142 - Basic Pediatric Care

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course includes an introduction to basic pediatric and neonatal care.

Prerequisite

RES 243

Grade Type: Letter Grade

Division: Health Sciences

RES 150 - Clinical Applications I

Lec: 0 **Lab:** 12.0 **Credit:** 4.0

Course Offered

Spring

This course is a study of entry-level clinical procedures in the hospital setting.

Corequisite

RES 140

and

RES 243

Grade Type: Letter Grade

Division: Health Sciences

RES 152 - Clinical Applications II

Lec: 0 **Lab:** 9.0 **Credit:** 3.0

Course Offered

Summer

This course includes practice of respiratory care procedures in the hospital setting. An introduction to the critical care setting with emphasis on intensive respiratory care skills, maintenance of artificial airways, continuous mechanical ventilation and physiologic monitoring is provided.

Prerequisite

RES 150

Grade Type: Letter Grade

Division: Health Sciences

RES 205 - Neonatal Respiratory Care

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course focuses on cardiopulmonary physiology, pathology and management of the newborn patient. Neonatal assessment, therapeutic procedures, monitoring, mechanical ventilation and clinical issues in neonatal care are included.

Grade Type: Letter Grade

Division: Health Sciences

RES 210 - Cardiopulmonary Science II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of cardiopulmonary, renal and neuromuscular physiology and pathophysiology. Emphasis is on current therapeutic modalities in the care of patients with cardiopulmonary diseases. Etiologic, symptomatic, diagnostic and prognostic facets of each disease are presented.

Prerequisite

RES 150

and

RES 243

and

RES 247

Grade Type: Letter Grade

Division: Health Sciences

RES 220 - Hemodynamic Monitoring

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Summer

This course is a study of basic hemodynamic monitoring. Included is a study of blood flow utilizing pulmonary artery and central venous pressure catheters.

Corequisite

RES 152

Grade Type: Letter Grade

Division: Health Sciences

RES 235 - Respiratory Diagnostics

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0

Course Offered

Summer

This course is a study of diagnostic and therapeutic procedures. Methods, equipment, techniques and interpretation of pulmonary function, exercise testing and hemodynamic monitoring are discussed. Other topics include electrocardiography and hyperbaric oxygenation.

Grade Type: Letter Grade

Division: Health Sciences

RES 243 - Mechanical Ventilation II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Spring

This course incorporates advanced theory of mechanical ventilation. Liberation from mechanical ventilation is explored.

Prerequisite

RES 111

and

RES 140

Corequisite

RES 247

Grade Type: Letter Grade

Division: Health Sciences

RES 246 - Respiratory Pharmacology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course includes a study of pharmacologic agents used in cardiopulmonary care. Indications, contraindications, hazards and side effects of pharmacological agents used to treat cardiopulmonary and renal disorders are discussed. Emphasis is on agents commonly administered by the respiratory care practitioner.

Grade Type: Letter Grade

Division: Health Sciences

RES 247 - Advanced Respiratory Pharmacology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course covers the indications, side effects and hazards of pharmacologic agents used in the intensive care unit. Emphasis is on agents commonly administered by the respiratory care practitioner.

Prerequisite

RES 246

Grade Type: Letter Grade

Division: Health Sciences

RES 249 - Comprehensive Applications

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course includes the integration of didactic and clinical trainers in respiratory care technology. Current issues, problem-solving skills and principles of supervision with emphasis on the role of the first-line supervisor are introduced. Students take a valid written examination and clinical simulation in preparation for national examinations.

Prerequisite

RES 205

Grade Type: Letter Grade

Division: Health Sciences

RES 253 - Advanced Clinical Studies I

Lec: 0 **Lab:** 18.0 **Credit:** 6.0

Course Offered

Fall

This course provides clinical instruction in advanced patient care practice. The student continues to refine techniques applicable to the critically ill patient with an emphasis on prolonged mechanical ventilation.

Prerequisite

RES 152

Grade Type: Letter Grade

Division: Health Sciences

RES 254 - Advanced Clinical Studies II

Lec: 0 **Lab:** 21.0 **Credit:** 7.0

Course Offered

Spring

This course includes clinical instruction in advanced patient care practice. The course offers clinical instruction in pediatric, neonatal and adult critical care. The student respiratory care practitioner is expected to function as a critical care therapist with limited supervision or instruction.

Prerequisite

RES 253

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Integrated Reading and English (RWR)

RWR 032 - Integrated Reading and English (RWR)

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course offers a review of academic reading and writing skills necessary for success in transitional and college-level courses. Students will apply strategies learned to the enhancement of reading comprehension skills and to writing activities for a variety of rhetorical situations.

Grade Type: Pass/Fail

Division: Humanities and Social Sciences

RWR 100 - Integrated Transitional Reading and English

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a study of basic writing and different modes of composition and may include a review of usage. It also covers the application of basic reading skills to improve critical comprehension and higher order thinking skills

Prerequisite

RWR 032

or

appropriate placement

Grade Type: Pass/Fail

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - School-Age and Youth Development (SAC)

SAC 101 - Best Practices in School-Age and Youth Care Skills

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces basic best practices of school-age and youth care skills for practitioners in out-of-school care environments.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 200 - Introduction to School-Age and Youth Care

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course introduces students to current theories and practices relevant to the care of school-age children and youth. Characteristics of the components of quality programs are explored using the nationally recognized program appraisal tool A.S.Q. (Assessing School-Age Child Care Quality).

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 201 - Development of the School-Age Child and Youth

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course examines how to plan for and guide the social and emotional development of school-age children and youth. Students gain the knowledge and skills to interpret

and evaluate behavior and to make appropriate decisions needed to work effectively with school-age children.

Prerequisite

SAC 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 202 - Administration of School-Age and Youth

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course is designed to allow students to gain insight into the pragmatic aspects of program administration and supervision. Students will obtain an understanding of the skills needed to maintain, promote and enhance total program development and participate in forums with area program coordinators to discuss current issues related to program administration and supervision.

Prerequisite

SAC 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 203 - Designing Model Environments for School-Age Child Care

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course focuses on the relationship between SAC curriculum and the SAC environment. Students explore curriculum design, standards of quality in the indoor and outdoor environment, as well as how to utilize existing shared indoor space effectively. Field trips are an integral component to the course.

Prerequisite

SAC 200

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 204 - Safety, Health and Nutrition for School-Age Children and Youth

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course provides an in-depth look into security issues in school-age programs. Students plan nutritional snacks and learn techniques to protect and enhance the health of children.

Prerequisite

SAC 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 205 - Guiding Behavior, Violence Prevention and Classroom Management Strategies

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

Students learn to recognize patterns of violence, how they develop and how they can be modified and controlled. Students also learn to incorporate positive behavioral skills used in guiding children’s behavior.

Prerequisite

SAC 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 206 - Human Relationships for Children, Staff and Families

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study in the human relationships present in school-age care programs. Focus will be on the examination of the various relationships and how the management of these relationships provides effective tools for developing quality programs.

Prerequisite

SAC 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 207 - Science, Technology and Cultural Arts in School-Age and Youth Programs

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course provides an opportunity for students to learn to incorporate the use of science, technology and arts in planning activities and administering program operations.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 208 - Supervised Field Experience for School-Age and Youth Care

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course offers students the opportunity to put skills they have learned through the school-age curriculum into practice.

12 semester credit hours in SAC courses

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SAC 209 - Introduction to Special Education for School-Age Children and Youth

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course includes an overview of school-age children and youth with special needs. The course will review the history of the field, basic beliefs, current trends and

exceptionality categories emphasizing treatment modalities, community resources, federal legislation and strategies for inclusion.

Prerequisite

SAC 101

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Science (SCI)

SCI 001 - Science Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for lab science course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Science and Mathematics

SCI 002 - Science Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** 0

Indicates credit given for non-lab science course work transferred from another college for which there is no equivalent course at TTC.

Grade Type: Letter Grade

Division: Science and Mathematics

SCI 207 - Special Topics in Science

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

This course covers special topics in science.

Departmental approval

Grade Type: Letter Grade

Division: Science and Mathematics

2024-2025 TTC Catalog - Social Sciences (SCS)

SCS 001 - Social Science Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for social science course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Sociology (SOC)

SOC 101 - Introduction to Sociology

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course emphasizes the fundamental concepts and principles of sociology, including culture, socialization, interaction, social groups and stratification, effects of population growth, and technology in society and social institutions.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SOC 102 - Marriage and the Family

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the institutions of marriage and the family from a sociological perspective. Significant forms and structures of family groups are studied in relation to current trends and social change.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SOC 205 - Social Problems

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

Summer

This course is a survey of current social problems in America, stressing the importance of social change and conflicts as they influence perceptions, definitions, etiology, and possible solutions.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SOC 210 - Juvenile Delinquency

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course presents the nature, extent and causes of juvenile delinquency behavior, including strategies used in the prevention, intervention and control of deviant behavior.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Spanish (SPA)

SPA 001 - Spanish Non-Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for Spanish course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPA 100 - Introduction to Spanish

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes the basics of language, specifically in comparing and contrasting English and Spanish grammar (i.e., parts of speech and sentence structure). The course incorporates the four basic skills (reading, writing, speaking and listening) as well as study and test-taking skills peculiar to the study of foreign language.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPA 101 - Elementary Spanish I

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a study of the four basic language skills: listening, speaking, reading and writing. It includes an introduction to Hispanic culture.

Prerequisite

RWR 100

with a minimum grade of C.

High school Spanish or successful completion of SPA 100 within the last five years is strongly recommended.

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both SPA 122 and SPA 101.

Division: Humanities and Social Sciences

SPA 102 - Elementary Spanish II

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course continues development of the basic language skills and the study of the Hispanic culture.

Prerequisite

SPA 101

with a minimum grade of C or specified Spanish placement test score.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPA 122 - Basic Proficiency in Spanish

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course covers the practice and further development of essential listening, reading, speaking and writing skills.

with a minimum grade of C.

Grade Type: Letter Grade

Restrictions: Students may not receive credit for both SPA 122 and SPA 101.

Division: Humanities and Social Sciences

SPA 201 - Intermediate Spanish I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is a review of Spanish grammar with attention given to more complex grammatical structures and reading difficult prose.

Prerequisite

SPA 102

with a minimum grade of C or specified Spanish placement test score.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPA 202 - Intermediate Spanish II

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course continues a review of Spanish grammar with attention given to more complex grammatical structures and reading more difficult prose.

Prerequisite

SPA 201

with a minimum grade of C or specified Spanish placement test score.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Speech (SPC)

SPC 205 - Public Speaking

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the principles of public speaking with the application of speaking skills in varied communication situations. Emphasis is placed on content and organization in the development and delivery of oral messages.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate test scores.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPC 209 - Interpersonal Communication

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course introduces the principles of interpersonal communication with emphasis on interpersonal theory as applied to personal and professional relationships. This course focuses on interpersonal message development and analysis in a variety of communication contexts, including self, stranger, acquaintance, business and personal.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate test scores.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPC 210 - Oral Interpretation of Literature

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course presents the principles and practices in the oral interpretation of literary works, including the selection, analysis, rehearsal and performance of poetry, prose and/or drama.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate test scores.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

SPC 225 - Introduction to Communication Theory

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This is a survey course of various communication theories, which considers the principles, contexts and developments of human communication. Topics include discussion of interpersonal, relational, organizational, symbolic, rhetorical, media, gender and intercultural communication theories.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate test scores.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Surgical Technology (SUR)

SUR 101 - Introduction to Surgical Technology

Lec: 3.0 **Lab:** 6.0 **Credit:** 5.0

Course Offered

Fall

This course includes a study of the surgical environment, team concepts, aseptic technique, hospital organization, basic instrumentation and supplies, sterilization, principles of infection control, and wound healing.

Prerequisite

BIO 210

and

AHS 104

Corequisite

BIO 211

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course.

Division: Health Sciences

SUR 102 - Applied Surgical Technology

Lec: 3.5 **Lab:** 4.5 **Credit:** 5.0

Course Offered

Spring

This course covers the principles and application of aseptic technique, the perioperative role, and medical/legal aspects.

Prerequisite

BIO 211

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 103 - Surgical Procedures I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Summer

This course is a study of a system to system approach to surgical procedures and relates regional anatomy, pathology, specialty equipment, and team responsibility. Patient safety, medical/legal aspects, and drugs used in surgery are emphasized.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 104 - Surgical Procedures II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of the various specialties of surgical procedures.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 105 - Surgical Procedures III

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Spring

This course is a study of advanced specialties of surgical procedures.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 110 - Introduction to Surgical Practicum

Lec: 0 **Lab:** 15.0 **Credit:** 5.0

Course Offered

Summer

This course is an introduction to the application of surgical technique by assisting in the perioperative roles in various clinical affiliations.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 112 - Surgical Practicum I

Lec: 0 **Lab:** 12.0 **Credit:** 4.0

Course Offered

Fall

This course includes the application of perioperative theory under clinical supervision.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 113 - Advanced Surgical Practicum

Lec: 0 **Lab:** 18.0 **Credit:** 6.0

Course Offered

Spring

This course includes a supervised progression of surgical team responsibilities and duties of the perioperative role in various clinical affiliations.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 120 - Surgical Seminar

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course includes the comprehensive correlation of theory and practice in the perioperative role.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 123 - Sterile Processing Technology

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course provides detailed study of the preparation and processing procedures of surgical instruments.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

SUR 130 - Biomedical Science for the Surgical Technologist

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall

This course includes basic principles of energy modalities, robotics, laser technology, and hybrid operating rooms as they relate to safe patient care practices in the operating room.

Grade Type: Letter Grade

Restrictions: Student must be admitted into the Surgical Technology Program to enroll in the course. Students can only register for the course via a Health Science faculty advisor.

Division: Health Sciences

2024-2025 TTC Catalog - Truck Driving (TDR)

TDR 101 - Introduction to Truck Driver Training

Lec: 5.0 **Lab:** 0 **Credit:** 5.0

Course Offered

Fall
Spring
Summer

This course is an introduction to truck driver training.

Prerequisite

RWR 032

and

MAT 033

Corequisite

TDR 104

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

TDR 102 - Fundamentals of Truck Driver Training

Lec: 4.0 **Lab:** 0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers the safe operation of a tractor-trailer on the open highway.

Prerequisite

TDR 101

and

TDR 104

Corequisite

TDR 103

and

TDR 105

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

TDR 103 - Preparation for CDL Examination

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course will prepare students for the South Carolina CDL examination including rules, regulations, policies, and driver practice.

Prerequisite

TDR 101

and

TDR 104

Corequisite

TDR 102

and

TDR 105

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

TDR 104 - Electronic Logging

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course is an introduction to the use of computer-based software to record hours of service as required by the Federal Motor Carriers Safety Administration (FMSCA) of the Department of Transportation (DOT).

Prerequisite

MAT 033

and

RWR 032

Corequisite

TDR 101

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

TDR 105 - The Business of Truck Driving

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course is an introduction to the business aspects of truck driving as well as personal life skills, health effects and customer service.

Prerequisite

TDR 101

and

TDR 104

Corequisite

TDR 102

and

TDR 103

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Theater (THE)

THE 101 - Introduction to Theater

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course includes the appreciation and analysis of theatrical literature, history and production.

Prerequisite

RWR 100

with a minimum grade of C or

appropriate test scores.

Grade Type: Letter Grade

Division: Humanities and Social Sciences

2024-2025 TTC Catalog - Transportation and Logistics (TRL)

TRL 105 - Warehousing

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Spring

This course is a study of the role, functions and management of warehousing; transportation; accountability; operations and contingency planning; warehouse security; contracts; liabilities; and inventory control.

Grade Type: Letter Grade

Division: Business Technology

TRL 106 - Export/Import

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring

This course includes an overview of international trade, entering the overseas market, distribution, payment, letters of credit, shipping, importing, customs-house brokers, government regulations, and sources of assistance and information.

Grade Type: Letter Grade

Division: Business Technology

2024-2025 TTC Catalog - Veterinary Technology (VET)

VET 101 - Animal Breeds and Husbandry

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course is a study of various species and breeds of domestic animals commonly encountered in veterinary medicine. Emphasis is placed on the recognition of each breed as well as important terminology and physiological data and behavior of each species of animal.

Grade Type: Letter Grade

Restrictions: Restricted to Veterinary Technology Majors

Division: Health Sciences

VET 104 - Veterinary Anatomy and Physiology

Lec: 2.5 **Lab:** 1.5 **Credit:** 3.0

Course Offered

Fall

This course provides a general survey of the functional anatomy and physiology of the domestic animals commonly encountered in veterinary medicine. Dissection of representative cadavers is performed in the laboratory.

Grade Type: Letter Grade

Restrictions: Restricted to Veterinary Technology majors.

Division: Health Sciences

VET 105 - Orientation to Veterinary Technology

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring

Summer

This course is a study of the different job opportunities for a veterinary technician. In addition, the course exposes the student to key characteristics of people who are successful in the field.

Grade Type: Letter Grade

Division: Health Sciences

VET 112 - Veterinary Terminology and Calculations

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course is a study of veterinary medical terminology and pharmacologic and therapeutic calculations for the veterinary technician.

Grade Type: Letter Grade

Restrictions: Restricted to Veterinary Technology majors.

Division: Health Sciences

VET 117 - Animal Nutrition

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course is a study of the different nutrients and their functions. Evaluating foodstuffs and exploring the role of dietary management and the use of prescription diets in small animals are covered in the course.

Prerequisite

VET 112

Grade Type: Letter Grade

Division: Health Sciences

VET 119 - Veterinary Diagnostic Imaging and Dentistry

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Summer

This course is the study of the fundamental principles of veterinary diagnostic imaging using digital radiographic techniques, including advanced imaging modalities. Also, the course is the study of diagnostic full-mouth dental radiographs and the principles and practices of veterinary dentistry.

Prerequisite

VET 142

Grade Type: Letter Grade

Division: Health Sciences

VET 140 - Veterinary Pharmacology

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course is the study of the principles of pharmacology and the pharmaceutical products used in veterinary medicine.

Prerequisite

VET 101

and

VET 104

Corequisite

VET 142

Grade Type: Letter Grade

Division: Health Sciences

VET 142 - Veterinary Anesthesia

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course is the study of the principles and practical uses of anesthesia in veterinary medicine.

Prerequisite

VET 101

and

VET 104

Corequisite

VET 140

Grade Type: Letter Grade

Division: Health Sciences

VET 152 - Clinical Pathology

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

This course is a study of veterinary hematology, urology and clinical chemistry followed by application of standard laboratory procedures and regulatory testing in each of these disciplines.

Prerequisite

VET 216

Grade Type: Letter Grade

Division: Health Sciences

VET 160 - Clinical Techniques II

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Spring

This course provides a survey of technical skills required by the veterinary technician with emphasis on radiographic and anesthetic procedures.

Prerequisite

VET 101

VET 104

Grade Type: Letter Grade

Division: Health Sciences

VET 170 - Veterinary Technician Externship

Lec: 0 **Lab:** 18.0 **Credit:** 6.0

Course Offered

Spring

This course provides clinical training in the veterinary field under the direct supervision of a licensed veterinarian in a veterinary facility.

Prerequisite

VET 250

Grade Type: Letter Grade

Division: Health Sciences

VET 203 - Small Animal Diseases, Zoonosis and Client Education

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall

This course provides a study of small animal diseases, including their etiology, symptoms, treatment and prevention. Emphasis is placed on the zoonotic potential of specific diseases in addition to strategies for client education.

Prerequisite

VET 216

Grade Type: Letter Grade

Division: Health Sciences

VET 207 - Large Animal Clinical Practice

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Fall

This course is a study of topics relevant to medical and surgical techniques of the common domestic large animal species. Topics include physical exam, restraint, sample collection, bandaging, emergency treatment, surgical and obstetrical procedures and instruments, herd health and lameness.

Prerequisite

VET 240

Grade Type: Letter Grade

Division: Health Sciences

VET 216 - Veterinary Parasitology and Laboratory Animal Medicine

Lec: 2.0 **Lab:** 3.0 **Credit:** 3.0

Course Offered

Summer

This course covers the clinically significant internal and external parasites that impact a variety of large and small animal species. Topics include diagnostic laboratory skills, the parasite's life cycle and potential zoonotic impact. All aspects of laboratory animal medicine are also explored.

Prerequisite

VET 142

VET 160

Grade Type: Letter Grade

Division: Health Sciences

VET 240 - Office Management and Client Education

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Summer

This course provides a study of office management, including the use of the computer in veterinary medical facilities. The course also includes an in-depth study of veterinary ethics and client education techniques.

Prerequisite

VET 160

Grade Type: Letter Grade

Division: Health Sciences

VET 250 - Clinical Techniques III

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Fall

This course includes a survey of technical skills required by the veterinary technician with emphasis on laboratory techniques.

Prerequisite

VET 142

and

Corequisite

VET 216

Grade Type: Letter Grade

Division: Health Sciences

VET 260 - Clinical Techniques IV

Lec: 1.0 **Lab:** 6.0 **Credit:** 3.0

Course Offered

Spring

This course surveys the technical skills required by veterinary technicians with emphasis on medical and surgical emergencies.

Prerequisite

VET 250

Grade Type: Letter Grade

Division: Health Sciences

VET 280 - Senior Seminar

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Spring

This course allows various topics applicable to the second-year student’s curriculum to be discussed in small groups. This includes, but is not limited to, issues arising from the veterinary technician externship.

Prerequisite

VET 152

and

Corequisite

VET 250

Grade Type: Letter Grade

Division: Health Sciences

2024-2025 TTC Catalog - Welding (WLD)

WLD 001 - Welding Non Equivalent

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for welding course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Manufacturing and Maintenance

WLD 110 - Welding Safety and Health

Lec: 1.0 **Lab:** 0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course introduces safety and health hazards associated with welding and related processes.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 111 - Arc Welding I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers the safety, equipment and skills used in the shielded metal arc welding process. Fillet welds are made to visual criteria in several positions.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 114 - Advanced Arc Welding

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course is a continued study of out-of-position shielded metal arc welding.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 118 - Gas Metal Arc Welding Ferrous I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers the equipment setup and fundamental techniques for gas metal arc welding on ferrous metals.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 119 - Gas Metal Arc Welding Ferrous II

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course covers the techniques used in preparation for gas metal arc welder qualification on ferrous metals.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 120 - Flux Cored Arc Welding I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers the equipment setup and fundamental techniques for flux cored arc welding.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 123 - Gas Metal Arc Welding Non-Ferrous II

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course covers the techniques used in preparation for gas metal arc welder qualification on nonferrous metals.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 127 - Structural Blueprints I

Lec: 3.0 **Lab:** 0 **Credit:** 3.0

Course Offered

Fall
Spring
Summer

This course covers the fundamentals of blueprint reading for structural welding applications including orthographic views, lines, basic dimensioning, and basic welding symbol interpretation.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 132 - Inert Gas Welding Ferrous

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers setup and adjustment of equipment and fundamental techniques for welding ferrous metals.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 133 - Inert Gas Welding Ferrous Tubing

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course covers the techniques used in gas tungsten arc welding of ferrous tubing.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 137 - Inert Gas Welding Aluminum Tubing

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Fall
Spring
Summer

This course covers the techniques used in gas tungsten arc welding of aluminum tubing.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 141 - Weld Quality

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Fall

This course introduces weld quality assurance.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 145 - Field Welding

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

Course Offered

Fall
Spring
Summer

This course covers welding with portable welding machines in field use.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 150 - Specialized Welding

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Summer

This course covers flux cored and gas metal arc welding.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 152 - Tungsten Arc Welding

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers gas tungsten arc welding of carbon steel or stainless steel with stainless steel filler metal..

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 170 - Qualification Welding

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers the procedures and practices used in taking welder qualification tests.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 201 - Welding Metallurgy

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course covers the weldability of metals, weld failure, and the effects of heat on chemical, physical and mechanical properties.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 203 - Structural Blueprints II

Lec: 2.0 **Lab:** 0 **Credit:** 2.0

Course Offered

Spring

This course covers advanced blueprint reading skills including structural shapes identification and applications, creating bill of materials, welding symbol application, basic layout techniques and mathematics, working with dimensions and tolerances.

Prerequisite

WLD 127

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 222 - Advanced Fabrication Welding

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course covers the layout, construction, and assembly of metal projects using metal working and welding equipment.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 225 - Arc Welding Pipe I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Summer

This course covers the techniques used in shielded metal arc welding of groove welds on pipe.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 226 - Arc Welding Pipe II

Lec: 0 **Lab:** 3.0 **Credit:** 1.0

Course Offered

Summer

This course covers the techniques used in shielded metal arc welding of fillet welds on pipe.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 228 - Inert Gas Welding Pipe I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course covers the techniques used in gas tungsten arc welding of groove welds on ferrous pipe.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 229 - Inert Gas Welding Pipe II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

This course covers the techniques used in gas tungsten arc welding of groove welds on alloyed steel and nonferrous pipe.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 231 - Gas Metal Arc and Flux Cored Arc Welding Pipe I

Lec: 1.0 **Lab:** 9.0 **Credit:** 4.0

Course Offered

Spring
Summer

This course covers the techniques used in gas metal arc and/or flux cored arc welding of groove welds on pipe.

Grade Type: Letter Grade

Division: Manufacturing and Maintenance

WLD 232 - Gas Metal Arc-Flux Cored Arc Welding Pipe II

Lec: 1.5 **Lab:** 1.5 **Credit:** 2.0

This course covers the techniques used in gas metal arc and/or flux cored arc welding of fillet welds on pipe.

Grade Type: Letter Grade
Division: Manufacturing and Maintenance

WLD 240 - Robotic Welding and Manufacturing

Lec: 3.5 **Lab:** 1.5 **Credit:** 4.0
Course Offered
Spring
This course covers robotic welding systems, safety, operations and applications.

Grade Type: Letter Grade
Restrictions: Restricted to Welding and Production Technology Majors
Division: Manufacturing and Maintenance

2024-2025 TTC Catalog - Administration and Faculty

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