CTE Course Catalog

Career and Technical Education

With Texas Student Data System PEIMS Codes and Descriptions

College, Career and Military Preparation Division
Texas Education Agency

TEXAS CTE
Your journey starts here.

Revised December 2025

TEA
Texas Education Agency

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Sources for Course Catalog

Sources for this course catalog:

1. Texas Student Data System[1]

2. Texas Administrative Code
   a. Chapter 127[2]

3. TEA Curriculum Standards and Student Support Division
   a. Innovative courses for CTE[3]

[1] https://www.texasstudentdatasystem.org/
[2] https://texas-sos.appianportalsgov.com/rules-and-meetings?chapter=127&interface=VIEW_TAC&part=2&title=19
[3] https://tea.texas.gov/academics/learning-support-and-programs/innovative-courses/innovative-courses-career-and-technical-education

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Career Clusters and Programs of Study Map

Career Clusters	Programs of Study						
Agriculture, Food, and Natural Resources ***Page 8***	Agriculture Business, Leadership, and Communications	Animal Science	Agricultural Technology and Mechanical Systems	Environmental and Natural Resources	Food Science and Technology	Plant Science	
Architecture and Construction ***Page 15***	Architectural Drafting and Design	Carpentry	Construction Management and Inspection	Electrical	HVAC and Sheet Metal	Masonry	Plumbing and Pipefitting
Arts, Audio Visual Technology, and Communications ***Page 23***	Graphic Design and Interactive Media	Digital Communications	Printing and Imaging*				
Business, Marketing, and Finance ***Page29***	Accounting and Financial Services	Business Management	Entrepreneurship	Marketing and Sales	Real Estate	Retail Management*	
Education and Training ***Page 36***	Early Learning	Teaching and Training					
Energy ***Page 39***	Oil and Gas Exploration and Production	Refining and Chemical Processes	Renewable Energy				
Engineering ***Page 43***	Engineering Foundations	Mechanical and Aerospace Engineering	Electrical Engineering	Civil Engineering	Geospatial Engineering and Land Surveying*	Drone (Unmanned Vehicle) *	
Health Science ***Page 50***	Exercise Science, Wellness, and Restoration	Health Informatics	Diagnostic and Therapeutic Services	Nursing Science	Biomedical Science		
Hospitality and Tourism ***Page 57***	Culinary Arts	Lodging and Resort Management	Travel, Tourism, and Attractions				
Human Services ***Page 62***	Family and Community Services	Health and Wellness	Cosmetology and Personal Care Services*				
Information Technology ***Page 66***	Information Technology Support and Services	Networking Systems	Web Development	Cybersecurity	Programming and Software Development		
Law and Public Service ***Page 75***	Fire Science	Government and Public Administration	Law Enforcement	Legal Studies	Junior Reserve Officers' Training Corps (JROTC)		
Manufacturing ***Page 81***	Robotics and Automation Technology	Manufacturing Technology	Welding	Industrial Maintenance	Electronics Technology*	Advanced Manufacturing and Industrial Technology*	
Transportation, Distribution, and Logistics ***Page 88***	Automotive and Collision Repair	Aviation Maintenance	Diesel and Heavy Equipment Maintenance and Commercial Drivers	Distribution, Logistics, and Warehousing	Aviation (Pilots)	Maritime*	

**Regional program of study*

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Career Development for Secondary Students

Standards

Chapter 127 of the TAC outlines the Texas Essential Knowledge and Skills (TEKS) for career development and career and technical education (CTE) courses.

1. **Middle School Career and College Exploration TEKS**
   - The goal of Career and College Exploration TEKS[4] are to help students build career awareness and engage in deep exploration of the Texas CTE career clusters to create a foundation for success in high school, possible postsecondary studies, and careers. The career development process is unique to every student and evolves throughout one's life.
   - The Career and College Exploration TEKS, expects students to use decision-making and problem-solving skills for individual career and academic planning. Students explore valid, reliable educational and career information to learn more about themselves and their interests and abilities.
   - These TEKS are designed to guide students through the process of investigating and developing a college and career readiness plan.
   - Students use aptitude and interest inventory assessments, labor market information (LMI), software, or other available tools to explore a variety of career paths, especially those in demand. Students will begin mapping their anticipated secondary coursework and potential postsecondary experiences that align with their goals.
   - The Texas Education Code (TEC) requires local education agencies (LEAs) to provide instruction to students in grades 7 or 8 to prepare for high school, college, and future careers. The following expectations can be found in Chapter 28 of the TEC[5].
     - The instruction must include information regarding the:
       - Creation of a high school personal graduation plan under TEC §28.02121
       - Distinguished level of achievement described by TEC §28.025
       - Endorsements, described by TEC §28.025
       - College and career readiness standards
       - Potential career choices and the education needed to enter chosen careers
     - An LEA may:
       - Provide the instruction as part of an existing course in the required curriculum
       - Provide the instruction as part of an existing CTE course designated by the State Board of Education (SBOE) as appropriate for that purpose
       - Establish a new elective course through which to provide the instruction
   - Each LEA shall ensure that at least once in grade seven or eight each student receives the instruction under this section.

[4] https://tea.texas.gov/about-tea/laws-and-rules/sboe-rules-tac/sboe-tac-currently-in-effect/ch127a.pdf
[5] https://statutes.capitol.texas.gov/Docs/ED/htm/ED.28.htm

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2. **CTE Standards in Occupational Safety and Health**
   - The Occupational Safety and Health standards[6] outline how students develop safety consciousness in the workplace. Students build a strong foundation in the occupational safety and health concepts that are critical to protecting individuals in the workplace, increasing safety and health, and reducing the occurrence of job-related injuries and fatalities. These standards are required to be addressed in their entirety as part of each of the following CTE courses:
     - Construction Technology I
     - Electrical Technology I
     - Plumbing Technology I
     - HVAC Technology I
     - Masonry Technology I
     - Agriculture Mechanics and Metal Technology
     - Welding I
     - Metal Fabrication and Machining I
     - Oil and Gas Production II
     - Introduction to Culinary Arts
   - These standards may not be offered as a standalone course
   - Successful completion of the standards may lead to a student earning a 10-hour general industry OSHA card. To earn the 10-hour Occupational Safety and Health Administration (OSHA) card, the content must be taught by an authorized OSHA outreach program trainer.

Note: LEAs wishing to offer innovative courses must have the approval of their board of trustees and implement the course as written (19 TAC §74.27)[7].

CTE Employability Skills

Employability Skills for Effective Workplace

The Texas State Board of Education approved in June 2025 the establishment of TEKS in employability skills for effective workplace performance. The employability skills standards are required to be taught as part of each CTE course beginning in the 2025-26 school year. The TEKS can be found in 19 Texas Administrative Code (TAC) Chapter 127, Subchapter B, §127.15.

There is one universal set of employability skills standards for courses identified as Level 1 and 2 in a CTE program of study and a second universal set of advanced employability skills standards for courses identified as Level 3 and 4 in a CTE program of study.

Link to the TAC[8] to find the employability skills standards.

[6] https://texas-sos.appianportalsgov.com/rules-and-meetings?$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=04%2F03%2F2025&recordId=214977
[7] https://texas-sos.appianportalsgov.com/rules-and-meetings?$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=04%2F03%2F2025&recordId=221391
[8] https://texas-sos.appianportalsgov.com/rules-and-meetings?$locale=en_US&interface=VIEW_TAC_SUMMARY&queryAsDate=08%2F06%2F2025&recordId=225408

Key Information and Definitions

CTE Course Funding

Based on House Bill (HB) 1525[9], LEAs receive weighted funding for each full-time equivalent student in average daily attendance (ADA) in an approved CTE programs in grades 7 through 12:

- 1.1 for CTE courses not in an approved program of study
- 1.28 for levels one and two CTE courses in an approved program of study, as identified by TEA
- 1.47 for levels three and four CTE courses in an approved program of study, as identified by TEA

An alphabetical list of current CTE courses and their designated weights is available at the TEA TEA CTE program of study website[10].

CTE Courses not Included in a Program of Study

CTE courses that are not included in CTE programs of study are available to provide additional choices for students as they progress through a program of study. Specific information about each course can be found in the alphabetical section of this course catalog (pages 96-252). Courses include:

13011600	Business English
12701111	Career Preparation General (First Time Taken)
12701131	Career Preparation General + Extended (First Time Taken)
12701112	Career Preparation General (Second Time Taken)
12701132	Career Preparation General + Extended (Second Time Taken)
12701122	Career Preparation for Programs of Study (Second Time Taken)
12701142	Career Preparation for Programs of Study + Extended (Second Time Taken)
12701102	Career and Technical Education Project-Based Capstone (Second Time Taken)
12701103	Career and Technical Education Project-Based Capstone (Third Time Taken)
N1303766	Digital Image Processing
13018900	Foreign Service and Diplomacy
N1270153	General Employability Skills
03581600	Independent Study in Evolving/Emerging Technologies (Second Time Taken)
03581700	Independent Study in Evolving/Emerging Technologies (Third Time Taken)
03581000	Independent Study in Technology Applications (Second Time Taken)
03581100	Independent Study in Technology Applications (Third Time Taken)
I3580500	International Baccalaureate (IB) Digital Society Higher Level
I3580400	International Baccalaureate (IB) Digital Society Standard Level
13001255	Oil and Gas Production I + Agricultural Laboratory and Field Experience
13001265	Oil and Gas Production II + Agricultural Laboratory and Field Experience
N1302536	Parenting Education I
N1302537	Parenting Education II
13011112	Practicum in Entrepreneurship (Second Time Taken)
13011122	Practicum in Entrepreneurship + Extended (Second Time Taken)
13037210	Scientific Research and Design II
13037220	Scientific Research and Design III
N1270154	Student to Industry Connection
N1303753	Texas Pre-Freshman Engineering Program II
N1303754	Texas Pre-Freshman Engineering Program III
N1303755	Texas Pre-Freshman Engineering Program IV
13011300	Touch System Data Entry

[9] https://capitol.texas.gov/tlodocs/87R/billtext/pdf/HB01525F.pdf#navpanes=0

[10] https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/cte-programs-of-study

Definitions

- **Career cluster** – A career cluster is defined by the Strengthening Career and Technical Education for the 21st Century Act (Perkins V) as a group of related to occupations and industries that share foundational knowledge and skills.

- **Corequisite** – A corequisite is a course that must be taken at the same time as another course. Students must be enrolled in both the corequisite course and the target course during the same academic term.

- **Course level** – A course level is based on their complexity, depth of knowledge, and skill development. CTE courses in this catalog are listed as either Level 1, 2, 3, or 4.

- **Course code** – A course code is a unique identifier assigned to each individual CTE course. A course code is crucial for accurate data reporting and tracking of student enrollment, progress, and achievement in CTE courses. Course codes listed in this catalog are taken from the Texas Education Data Standards and are required for participation in the Texas Records Exchange (TREx) system. Course codes were previously referred to as "Service IDs."

- **Course abbreviation** – Course abbreviations may be used within individual LEAs for internal purposes, such as scheduling systems, transcripts, or other administrative purposes. Course abbreviations listed in this course catalog are taken from the Texas Education Data Standards and are required for participation in the Texas Records Exchange (TREx) system.

- **Course credit** – A course credit generally represents the successful completion of a unit of instruction. This catalog outlines the credit values for each course offered – either 0.5, 1, 2, or 3 credits.

- **Course title** – A course title listed in this course catalog is taken from the Texas Education Data Standards and is required for participation in the Texas Records Exchange (TREx) system.

- **Innovative Course** - An innovative course is a state-approved course designed to help students master knowledge, skills, and competencies that are not included in the essential knowledge and skills of the required curriculum. The State Board of Education (SBOE) may approve innovative courses in the foundation or enrichment curriculum and courses that do not fall within any of these subject areas when the applying school district or organization demonstrates that the proposed course is academically rigorous, addresses documented student needs, and is non-duplicative of an existing TEKS based course. These courses are governed by TAC §74.27.

- **Prerequisite** – A prerequisite is a course or that must be successfully completed before a student can enroll in a specific course. A prerequisite ensures that students have the necessary foundational knowledge and skills to succeed in a subsequent course.

- **Program of study** – A program of study is defined by Perkins V as a coordinated, non-duplicative sequence of academic and technical courses that align with industry needs and lead to a recognized postsecondary credential.

- **Recommended corequisite** – A recommended corequisite is a course that is strongly suggested for students to take concurrently with another course.

- **Recommended prerequisite** – A course that is strongly suggested for students to have completed before enrolling in a specific course.

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CTE Courses by Career Cluster/Programs of Study

Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) career cluster focuses on the essential elements of life, food, water, land, and air. This career cluster includes occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Programs of Study

- Agriculture Business, Leadership, and Communications
- Agricultural Technology and Mechanical Systems
- Animal Science
- Environmental and Natural Resources
- Food Science and Technology
- Plant Science

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter C)

§127.30 Principles of Agriculture, Food, and Natural Resources (One Credit), Adopted 2024
§127.31 Mathematical Applications in Agriculture, Food, and Natural Resources (One Credit), Adopted 2015
§127.32 Energy and Natural Resource Technology (One Credit), Adopted 2015
§127.33 Advanced Energy and Natural Resource Technology (One Credit), Adopted 2015
§127.34 Food Technology and Safety (One Credit), Adopted 2015
§127.35 Food Processing (One Credit), Adopted 2015
§127.36 Wildlife, Fisheries, and Ecology Management (One Credit), Adopted 2015
§127.37 Forestry and Woodland Ecosystems (One Credit), Adopted 2015
§127.38 Range Ecology and Management (One Credit), Adopted 2015
§127.39 Landscape Design and Management (One-Half Credit), Adopted 2015
§127.40 Turf Grass Management (One-Half Credit), Adopted 2015
§127.41 Agricultural Mechanics and Metal Technologies (One Credit), Adopted 2015
§127.42 Agricultural Structures Design and Fabrication (One Credit), Adopted 2015
§127.43 Agricultural Equipment Design and Fabrication (One Credit), Adopted 2015
§127.44 Agricultural Power Systems (Two Credits), Adopted 2015
§127.45 Professional Standards and Communication in Agribusiness (One Credit), Adopted 2024
§127.46 Agribusiness Management and Marketing (One Credit), Adopted 2024
§127.47 Agricultural Leadership, Research, and Communications (One Credit), Adopted 2024
§127.48 Equine Science (One-Half Credit), Adopted 2024
§127.49 Livestock and Poultry Production (One Credit), Adopted 2024
§127.50 Small Animal Management (One-Half Credit), Adopted 2024
§127.51 Veterinary Science (One Credit), Adopted 2024
§127.52 Advanced Animal Science (One Credit), Adopted 2024
§127.53 Floral Design (One Credit), Adopted 2024
§127.54 Horticultural Science (One Credit), Adopted 2024
§127.55 Greenhouse Operation and Production (One Credit), Adopted 2024
§127.56 Viticulture (One Credit), Adopted 2024
§127.57 Advanced Floral Design (One Credit), Adopted 2024
§127.58 Advanced Plant and Soil Science (One Credit), Adopted 2024
§127.59 Geographic Information Systems for Agriculture (GIS) (One Credit), Adopted 2025
§127.61 Beekeeping and Honey Processing (One Credit), Adopted 2025
§127.85 Agricultural Laboratory and Field Experience (One Credit), Adopted 2015
§127.86 Practicum in Agriculture, Food, and Natural Resources (Two Credits), Adopted 2024
§127.87 Extended Practicum in Agriculture, Food, and Natural Resources (One Credit), Adopted 2024

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Agriculture Business, Leadership, and Communications

The Agriculture Business, Leadership, and Communications program of study focuses on occupational and educational opportunities associated with farming and agriculturally related businesses that supply farm inputs, such as machinery and seeds. This program of study includes an exploration of farm product marketing, the purchase of farm products either for processing or resale, and the process of grading or classifying unprocessed food or other agricultural products.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Agriculture, Food, and Natural Resources*	13000200	PRINAFNR	1
1	Professional Communications*	13009900	PROFCOMM	.5
2	Professional Standards and Communication in Agribusiness	13000800	PROSAFNR	1
2	Mathematical Applications in Agriculture, Food, and Natural Resources	13001000	MATHAFNR	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Agribusiness Management and Marketing	13000900	AGRBUSMM	1
3	Agribusiness Management and Marketing + Agricultural Laboratory and Field Experience	13000910	AGRBUSLAB	2
4	Agricultural Leadership, Research, and Communications	13000950	AGLEAD	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002500 13002510	PRACAFNR1 PRACAFNR2	2 2
4	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002505 13002515	EXPRAFNR1 EXPRAFNR2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Agricultural Technology and Mechanical Systems

The Agricultural Technology and Mechanical Systems program of study focuses on occupational and educational opportunities associated with applying engineering technology and biological science to agricultural problems related to power and machinery, electrification, structures, soil and water use, and processing agricultural products. This program of study includes diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Agriculture, Food, and Natural Resources*	13000200	PRINAFNR	1
2	Agricultural Mechanics and Metal Technologies*	13002200	AGMECHMT	1
2	Agricultural Mechanics and Metal Technologies + Agricultural Laboratory and Field Experience*	13002210	AGMECMTLAB	2
3	Agricultural Structures Design and Fabrication	13002300	AGSDF	1
3	Agricultural Structures Design and Fabrication + Agricultural Laboratory and Field Experience	13002310	AGSDFLAB	2
3	Agricultural Power Systems	13002400	AGPOWSYS	2
3	Agricultural Power Systems + Agricultural Laboratory and Field Experience	13002410	AGPOWSLAB	3
3	Geographic Information Systems (GIS) for Agriculture	13002450	GISAGRI	1
4	Agricultural Equipment Design and Fabrication	13002350	AGEQDF	1
4	Agricultural Equipment Design and Fabrication + Agricultural Laboratory and Field Experience	13002360	AGEQDFLAB	2
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002500 13002510	PRACAFNR1 PRACAFNR2	2 2
4	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002505 13002515	EXPRAFNR1 EXPRAFNR2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

Animal Science

The Animal Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of animals and other living organisms. This program of study includes applying biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students will research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Agriculture, Food, and Natural Resources*	13000200	PRINAFNR	1
2	Small Animal Management	13000400	SMANIMGT	.5
2	Equine Science	13000500	EQUINSCI	.5
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Livestock and Poultry Production	13000300	LIVEPROD	1
3	Livestock and Poultry Production + Agricultural Laboratory and Field Experience	13000310	LIVPROLAB	2
4	Advanced Animal Science	13000700	ADVANSCI	1
4	Veterinary Science	13000600	VETSCI	1
4	Veterinary Science + Agricultural Laboratory and Field Experience	13000610	VETSCILAB	2
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002500 13002510	PRACAFNR1 PRACAFNR2	2 2
4	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002505 13002515	EXPRAFNR1 EXPRAFNR2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Environmental and Natural Resources

The Environmental and Natural Resources program of study focuses on occupational and educational opportunities associated with the research, design, and engineering of plans for prevention and control of environmental hazards. This program of study includes conducting research for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Agriculture, Food, and Natural Resources*	13000200	PRINAFNR	1
2	Beekeeping and Honey Processing	13002110	BEEHONPR	1
2	Wildlife, Fisheries, and Ecology Management	13001500	WFECGT	1
2	Wildlife, Fisheries, and Ecology Management + Agricultural Laboratory and Field Experience	13001510	WFECGTLAB	2
2	Forestry and Woodland Ecosystems	13001700	FWECO	1
2	Forestry and Woodland Ecosystems + Agricultural Laboratory and Field Experience	13001710	FWECOLAB	2
3	Energy and Natural Resource Technology*	13001100	ENGNRT	1
3	Energy and Natural Resource Technology + Agricultural Laboratory and Field Experience	13001110	ENGNRTLAB	2
3	Range Ecology and Management	13001600	RECOMGT	1
3	Range Ecology and Management + Agricultural Laboratory and Field Experience	13001610	RECOMGLAB	2
4	Advanced Energy and Natural Resource Technology	13001200	ADENRT	1
4	Advanced Energy and Natural Resource Technology + Agricultural Laboratory and Field Experience	13001210	ADENRTLAB	2
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002500 13002510	PRACAFNR1 PRACAFNR2	2 2
4	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002505 13002515	EXPRAFNR1 EXPRAFNR2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Food Science and Technology

The Food Science and Technology program of study focuses on the occupational and educational opportunities associated with the research, production, and processing of food from plants and animals. This program of study includes exploration of safety, processing, preserving, packaging, and storing food for human consumption.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Agriculture, Food, and Natural Resources*	13000200	PRINAFNR	1
2	Food Technology and Safety*	13001300	FOODTS	1
2	Food Technology and Safety + Agricultural Laboratory and Field Experience	13001310	FOODTLAB	2
3	Food Processing*	13001400	FOODPRO	1
3	Food Processing + Agricultural Laboratory and Field Experience*	13001410	FOODPRLAB	2
4	Food Science*	13023000	FOODSCI	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002500 13002510	PRACAFNR1 PRACAFNR2	2 2
4	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002505 13002515	EXPRAFNR1 EXPRAFNR2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Plant Science

The Plant Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of plants and other living organisms. This program of study includes the application of biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Agriculture, Food, and Natural Resources*	13000200	PRINAFNR	1
2	Landscape Design and Management	13001900	LNDMGT	.5
2	Turf Grass Management	13001950	TGMGT	.5
2	Greenhouse Operation and Production	13002050	GREOP	1
2	Greenhouse Operation and Production + Agricultural Laboratory and Field Experience	13002060	GREOPLAB	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Viticulture	13002080	VITICUL	1
3	Horticultural Science	13002000	HORTISCI	1
3	Horticultural Science + Agricultural Laboratory and Field Experience	13002010	HORSCILAB	2
3	Floral Design	13001800	FLORAL	1
3	Floral Design + Agricultural Laboratory and Field Experience	13001810	FLORALAB	2
4	Advanced Plant and Soil Science	13002100	ADVPSSCI	1
4	Advanced Floral Design	13001850	ADVFLOR	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002500 13002510	PRACAFNR1 PRACAFNR2	2 2
4	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources* *First Time Taken* *Second Time Taken*	13002505 13002515	EXPRAFNR1 EXPRAFNR2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Architecture and Construction Career Cluster

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber and heating, air conditioning, and refrigeration technician.

Programs of Study

- Architectural Drafting and Design
- Carpentry
- Construction Management and Inspection
- Electrical
- HVAC and Sheet Metal
- Masonry
- Plumbing and Pipefitting

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter D)

§127.94 Principles of Architecture (One Credit), Adopted 2015
§127.95 Principles of Construction (One Credit), Adopted 2015
§127.96 Building Maintenance Technology I (Two Credits), Adopted 2015
§127.97 Building Maintenance Technology II (Two Credits), Adopted 2015
§127.98 Construction Management I (Two Credits), Adopted 2015
§127.99 Construction Management II (Two Credits), Adopted 2015
§127.100 Construction Technology I (Two Credits), Adopted 2015
§127.101 Construction Technology II (Two Credits), Adopted 2015
§127.102 Mill and Cabinetmaking Technology (Two Credits), Adopted 2015
§127.103 Masonry Technology I (Two Credits), Adopted 2015
§127.104 Masonry Technology II (Two Credits), Adopted 2015
§127.105 Architectural Design I (One Credit), Adopted 2015
§127.106 Architectural Design II (Two Credits), Adopted 2015
§127.107 Interior Design I (One Credit), Adopted 2015
§127.108 Interior Design II (Two Credits), Adopted 2015
§127.109 Electrical Technology I (One Credit), Adopted 2015
§127.110 Electrical Technology II (Two Credits), Adopted 2015
§127.111 Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I (One Credit), Adopted 2015
§127.112 Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II (Two Credits), Adopted 2015
§127.113 Plumbing Technology I (One Credit), Adopted 2015
§127.114 Plumbing Technology II (Two Credits), Adopted 2015
§127.145 Practicum in Construction Management (Two Credits), Adopted 2015
§127.146 Extended Practicum in Construction Management (One Credit), Adopted 2015
§127.147 Practicum in Construction Technology (Two Credits), Adopted 2015
§127.148 Extended Practicum in Construction Technology (One Credit), Adopted 2015
§127.149 Practicum in Masonry Technology (Two Credits), Adopted 2015
§127.150 Extended Practicum in Masonry Technology (One Credit), Adopted 2015
§127.151 Practicum in Architectural Design (Two Credits), Adopted 2015
§127.152 Extended Practicum in Architectural Design (One Credit), Adopted 2015
§127.153 Practicum in Interior Design (Two Credits), Adopted 2015
§127.154 Extended Practicum in Interior Design (One Credit), Adopted 2015

Innovative Courses

- Computer-Aided Drafting for Architecture
- Pipefitting Technology I
- Pipefitting Technology I + Pipefitting Technology I Lab
- Pipefitting Technology II
- Pipefitting Technology II + Pipefitting Technology II Lab
- Sheet Metal Technology
- Topographical Drafting

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Architectural Drafting and Design

The Architectural Drafting and Design program of study focuses on occupational and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study includes reading, interpreting, and drawing blueprints for interior and exterior construction projects.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Architecture*	13004210	PRINARC	1
1	Principles of Construction*	13004220	PRINCON	1
2	Architectural Design I	13004600	ARCHDSN1	1
2	Interior Design I*	13004300	INTERDS1	1
2	Computer-Aided Drafting for Architecture	N1300429	CAD4ARCH	1
3	Architectural Design II	13004700	ARCHDSN2	2
3	Interior Design II	13004400	INTERDS2	2
3	Architectural Engineering*	12756065	ARCHENGR	2
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Architectural Design *First Time Taken* *Second Time Taken*	13004800 13004810	PRACADS1 PRACADS2	2 2
4	Practicum in Architectural Design + Extended Practicum in Architectural Design *First Time Taken* *Second Time Taken*	13004805 13004815	EXPRADS1 EXPRADS2	3 3
4	Practicum in Interior Design *First Time Taken* *Second Time Taken*	13004500 13004510	PRACIDS1 PRACIDS2	2 2
4	Practicum in Interior Design + Extended Practicum in Interior Design *First Time Taken* *Second Time Taken*	13004505 13004515	EXPRIDS1 EXPRIDS2	3 3
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	13005250 13005260	PRACCT1 PRACCT2	2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	13005255 13005265	EXPRCT1 EXPRCT2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Carpentry

The Carpentry program of study focuses on occupational and educational opportunities related to constructing, installing, and repairing structures and fixtures made of wood (including frameworks, partitions, joists, studding, rafters, and stairways). The program of study includes installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Construction*	13004220	PRINCON	1
1	Principles of Architecture*	13004210	PRINARC	1
2	Construction Technology I*	13005100	CONTECH1	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Construction Technology II	13005200	CONTECH2	2
3	Mill and Cabinetmaking Technology	13005300	MACTECH	2
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005250 13005260	 PRACCT1 PRACCT2	 2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005255 13005265	 EXPRCT1 EXPRCT2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Construction Management and Inspection

The Construction Management and Inspection program of study focuses on occupational and educational opportunities associated with producing cost estimates for construction projects to support bidding on or determining the price of products or services. The program of study includes inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Construction*	13004220	PRINCON	1
1	Principles of Architecture*	13004210	PRINARC	1
2	Construction Management I	13004900	CONSMGT1	2
2	Building Maintenance Technology I*	13005400	BUILDMA1	2
3	Construction Management II	13005000	CONSGMGT2	2
3	Building Maintenance Technology II	13005500	BUILDMA2	2
4	Practicum in Construction Management *First Time Taken* *Second Time Taken*	 13006200 13006210	 PRACCM1 PRACCM2	 2 2
4	Practicum in Construction Management + Extended Practicum in Construction Management *First Time Taken* *Second Time Taken*	 13006205 13006215	 EXPRCM1 EXPRCM2	 3 3
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005250 13005260	 PRACCT1 PRACCT2	 2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005255 13005265	 EXPRCT1 EXPRCT2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Electrical

The Electrical program of study focuses on occupational and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. The program of study also addresses installing and repairing telecommunications cable including fiber optics.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Architecture*	13004210	PRINARC	1
1	Principles of Construction*	13004220	PRINCON	1
2	Electrical Technology I*	13005600	ELECTEC1	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Electrical Technology II	13005700	ELECTEC2	2
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	13005250 13005260	PRACCT1 PRACCT2	2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	13005255 13005265	EXPRCT1 EXPRCT2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

HVAC and Sheet Metal

The HVAC and Sheet Metal program of study focuses on occupational and educational opportunities associated with installing, servicing, or repairing heating and air conditioning systems. The program of study addresses fabrication, assembly, installation, and repair of sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Architecture*	13004210	PRINARC	1
1	Principles of Construction*	13004220	PRINCON	1
2	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I*	13005800	HVACREF1	1
2	Building Maintenance Technology I*	13005400	BUILDMA1	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Sheet Metal Technology	N1300430	SHTMTL	1
3	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	13005900	HVACREF2	2
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005250 13005260	 PRACCT1 PRACCT2	 2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005255 13005265	 EXPRCT1 EXPRCT2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Masonry

The Masonry program of study focuses on occupational and educational opportunities related to laying and binding materials such as brick, structural tile, concrete block, and other types of substances to construct or repair walls and other structures. The program of study includes raising and uniting iron or steel to form completed structures or structural frameworks and building structures using stone.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Architecture*	13004210	PRINARC	1
1	Principles of Construction*	13004220	PRINCON	1
2	Masonry Technology I	13006300	MASTECH1	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Masonry Technology II	13006400	MASTECH2	2
4	Practicum in Masonry Technology *First Time Taken* *Second Time Taken*	 13006450 13006460	 PRACMAS1 PRACMAS2	 2 2
4	Practicum in Masonry Technology + Extended Practicum in Masonry Technology *First Time Taken* *Second Time Taken*	 13006455 13006465	 EXPRMAS1 EXPRMAS2	 3 3
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005250 13005260	 PRACCT1 PRACCT2	 2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005255 13005265	 EXPRCT1 EXPRCT2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Plumbing and Pipefitting

The Plumbing and Pipefitting program of study focuses on occupational and educational opportunities related to assembling, installing, and repairing pipes, fittings, or fixtures of heating, water, and drainage systems. The program of study includes maintaining pipe supports and related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, and sprinkling.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Architecture*	13004210	PRINARC	1
1	Principles of Construction*	13004220	PRINCON	1
1	Introduction to Welding*	13032250	INTRWELD	1
2	Pipefitting Technology I	N1300425	PIPETEC1	1
2	Pipefitting Technology I + Pipefitting Technology I Lab	N1300427	PIPETECL1	2
2	Plumbing Technology I	13006000	PLTECH1	1
2	Building Maintenance Technology I*	13005400	BUILDMA1	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Pipefitting Technology II	N1300426	PIPETEC2	1
3	Pipefitting Technology II + Pipefitting Technology II Lab	N1300428	PIPETECL2	2
3	Plumbing Technology II	13006100	PLTECH2	2
4	Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005250 13005260	 PRACCT1 PRACCT2	 2 2
4	Practicum in Construction Technology + Extended Practicum in Construction Technology* *First Time Taken* *Second Time Taken*	 13005255 13005265	 EXPRCT1 EXPRCT2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Arts, Audio Visual Technology, and Communications

The Arts, Audio Visual Technology, and Communication (AAVTC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

Programs of Study

- Digital Communications
- Graphic Design and Interactive Media
- Printing and Imaging (Regional Program of Study)

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter E)

§127.160 Principles of Arts, Audio/Video Technology, and Communications (One Credit), Adopted 2015
§127.161 Animation I (One Credit), Adopted 2015
§127.162 Animation I Lab (One Credit), Adopted 2015
§127.163 Animation II (One Credit), Adopted 2015
§127.164 Animation II Lab (One Credit), Adopted 2015
§127.165 Audio/Video Production I (One Credit), Adopted 2015
§127.166 Audio/Video Production I Lab (One Credit), Adopted 2015
§127.167 Audio/Video Production II (One Credit), Adopted 2015
§127.168 Audio/Video Production II Lab (One Credit), Adopted 2015
§127.169 Digital Audio Technology I (One Credit), Adopted 2015
§127.170 Digital Audio Technology II (One Credit), Adopted 2015
§127.171 Video Game Design (One Credit), Adopted 2015
§127.172 Printing and Imaging Technology I (One Credit), Adopted 2015
§127.173 Printing and Imaging Technology I Lab (One Credit), Adopted 2015
§127.174 Printing and Imaging Technology II (One Credit), Adopted 2015
§127.175 Printing and Imaging Technology II Lab (One Credit), Adopted 2015
§127.176 Commercial Photography I (One Credit), Adopted 2015
§127.177 Commercial Photography I Lab (One Credit), Adopted 2015
§127.178 Commercial Photography II (One Credit), Adopted 2015
§127.179 Commercial Photography II Lab (One Credit), Adopted 2015
§127.180 Fashion Design I (One Credit), Adopted 2015
§127.181 Fashion Design I Lab (One Credit), Adopted 2015
§127.182 Fashion Design II (One Credit), Adopted 2015
§127.183 Fashion Design II Lab (One Credit), Adopted 2015
§127.184 Graphic Design and Illustration I (One Credit), Adopted 2015
§127.185 Graphic Design and Illustration I Lab (One Credit), Adopted 2015
§127.186 Graphic Design and Illustration II (One Credit), Adopted 2015
§127.187 Graphic Design and Illustration II Lab (One Credit), Adopted 2015
§127.188 Professional Communications (One-Half Credit), Adopted 2015
§127.189 Digital Design and Media Production (One Credit)
§127.190 Digital Art and Animation (One Credit)
§127.191 3-D Modeling and Animation (One Credit)
§127.192 Digital Communications in the 21st Century (One Credit)
§127.193 Web Game Development (One Credit)
§127.224 Practicum in Animation (Two Credits), Adopted 2015
§127.225 Extended Practicum in Animation (One Credit), Adopted 2015
§127.226 Practicum in Audio/Video Production (Two Credits), Adopted 2015
§127.227 Extended Practicum in Audio/Video Production (One Credit), Adopted 2015
§127.228 Practicum in Printing and Imaging Technology (Two Credits), Adopted 2015

Continued on next page

Courses Listed in Texas Administrative Code (cont.)

§127.229 Extended Practicum in Printing and Imaging Technology (One Credit), Adopted 2015
§127.230 Practicum in Commercial Photography (Two Credits), Adopted 2015
§127.231 Extended Practicum in Commercial Photography (One Credit), Adopted 2015
§127.232 Practicum in Fashion Design (Two Credits), Adopted 2015
§127.233 Extended Practicum in Fashion Design (One Credit), Adopted 2015
§127.234 Practicum in Graphic Design and Illustration (Two Credits), Adopted 2015
§127.235 Extended Practicum in Graphic Design and Illustration (One Credit), Adopted 2015

Innovative Courses

- Advanced Video Game Programming
- Practicum in Digital Audio Technology
- Video Game Programming

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Digital Communications

The Digital Communications program of study focuses on occupational and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. The program of study includes operating machines and equipment such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment to record sound and images.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Arts, Audio/Video Technology, and Communications*	13008200	PRINAAVTC	1
1	Digital Communications in the 21st Century	03580610	TADGC	1
1	Professional Communications*	13009900	PROFCOMM	.5
1	Web Communications*	03580810	TAWEBCM	.5
2	Audio/Video Production I	13008500	AVPROD1	1
2	Audio/Video Production I + Audio/Video Production I Lab	13008510	AVPLAB1	2
2	Digital Audio Technology I	13009950	DATECH1	1
2	Digital Design and Media Production*	03580400	TADGDMP	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Audio/Video Production II	13008600	AVPROD2	1
3	Audio/Video Production II + Audio/Video Production II Lab	13008610	AVPLAB2	2
3	Digital Audio Technology II	13009960	DATECH2	1
4	Practicum in Audio/Video Production* *First Time Taken* *Second Time Taken*	 13008700 13008710	 PRACAVP1 PRACAVP2	 2 2
4	Practicum in Audio/Video Production + Extended Practicum in Audio/Video Production* *First Time Taken* *Second Time Taken*	 13008705 13008715	 EXPRAVP1 EXPRAVP2	 3 3
4	Practicum in Digital Audio Technology	N1300996	PRACDAT	2
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Graphic Design and Interactive Media

The Graphic Design and Interactive Media program of study focuses on occupational and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. The program of study includes designing clothing and accessories and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in computer games, movies, music videos, and commercials.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Arts, Audio/Video Technology, and Communications *	13008200	PRINAAVTC	1
1	Video Game Design	13009970	VIDGD	1
1	Digital Media*	13027800	DIMEDIA	1
1	Web Communications*	03580810	TAWEBCM	.5
2	Graphic Design and Illustration I*	13008800	GRAPHDI1	1
2	Graphic Design and Illustration I + Graphic Design and Illustration I Lab*	13008810	GRDLAB1	2
2	Animation I	13008300	ANIMAT1	1
2	Animation I + Animation I Lab	13008310	ANILAB1	2
2	Commercial Photography I	13009100	CPHOTO1	1
2	Commercial Photography I + Commercial Photography I Lab	13009110	CPHLAB1	2
2	Fashion Design I	13009300	FASHDSN1	1
2	Fashion Design I + Fashion Design I Lab	13009310	FASLAB1	2
2	Foundations of User Experience*	13027525	FNDUX	1
2	Video Game Programming	N1300994	VIDEOPR	1
2	Game Programming and Design*	03580380	TAGMPD	1
2	Digital Design and Media Production*	03580400	TADGDMP	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Graphic Design and Illustration II	13008900	GRAPHDI2	1
3	Graphic Design and Illustration II + Graphic Design and Illustration II Lab	13008910	GRDLAB2	2
3	Animation II	13008400	ANIMAT2	1
3	Animation II + Animation II Lab	13008410	ANILAB2	2
3	Commercial Photography II	13009200	CPHOTO2	1
3	Commercial Photography II + Commercial Photography II Lab	13009210	CPHLAB2	2
3	Fashion Design II	13009400	FASHDSN2	1
3	Fashion Design II + Fashion Design II Lab	13009410	FASLAB2	2
3	Advanced User Experience Design*	13027530	ADVUXDES	1
3	Advanced Video Game Programming	N1300995	ADVIDEOGP	1
3	Digital Art and Animation	03580500	TADGAA	1
3	3-D Modeling and Animation	03580510	TA3DMA	1
3	Web Game Development*	03580830	TAWEBGD	1
4	Independent Study in Technology Applications* *First Time Taken*	03580900	TAIND1	1
4	Independent Study in Evolving/Emerging Technologies* *First Time Taken*	03581500	TAINDET1	1
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Level	Course Title	Course Code	Course Abbreviation	Credits
4	Practicum in Graphic Design and Illustration *First Time Taken* *Second Time Taken*	 13009000 13009010	 PRACGRD1 PRACGRD2	 2 2
4	Practicum in Graphic Design and Illustration + Extended Practicum in Graphic Design and Illustration *First Time Taken* *Second Time Taken*	 13009005 13009015	 EXPRGRD1 EXPRGRD2	 3 3
4	Practicum in Animation *First Time Taken* *Second Time Taken*	 13008450 13008460	 PRACANI1 PRACANI2	 2 2
4	Practicum in Animation + Extended Practicum in Animation *First Time Taken* *Second Time Taken*	 13008455 13008465	 EXPRANI1 EXPRANI2	 3 3
4	Practicum in Commercial Photography *First Time Taken* *Second Time Taken*	 13009250 13009260	 PRACCPH1 PRACCPH2	 2 2
4	Practicum in Commercial Photography + Extended Practicum in Commercial Photography *First Time Taken* *Second Time Taken*	 13009255 13009265	 EXPRCPH1 EXPRCPH2	 3 3
4	Practicum in Fashion Design *First Time Taken* *Second Time Taken*	 13009500 13009510	 PRACFAS1 PRACFAS2	 2 2
4	Practicum in Fashion Design + Extended Practicum in Fashion Design *First Time Taken* *Second Time Taken*	 13009505 13009515	 EXPRFAS1 EXPRFAS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Printing and Imaging (Regional Program of Study)

Approved in ESC Regions 2, 4, 5, 7, 9, 10, 11, 13, 18 and 20

***The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.**

The Printing and Imaging regional program of study focuses on occupational and educational opportunities associated with designing packaging, displays, or logos to meet specific commercial or promotional needs. This program of study includes the foundations of business management, customer service, graphic design, graphic production, and large-format printing.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Arts, Audio/Video Technology, and Communications*	13008200	PRINAAVTC	1
2	Printing and Imaging Technology I	13009600	PRIMTEC1	1
2	Printing and Imaging Technology I + Printing and Imaging Technology I Lab	13009610	PRILAB1	2
2	Graphic Design and Illustration I*	13008800	GRAPHDI1	1
2	Graphic Design and Illustration I + Graphic Design and Illustration I Lab*	13008810	GRDLAB1	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Printing and Imaging Technology II	13009700	PRIMTEC2	1
3	Printing and Imaging Technology II + Printing and Imaging Technology II Lab	13009710	PRILAB2	2
4	Practicum in Printing and Imaging Technology *First Time Taken* *Second Time Taken*	 13009800 13009810	 PRACPRI1 PRACPRI2	 2 2
4	Practicum in Printing and Imaging Technology + Extended Practicum in Printing and Imaging Technology *First Time Taken* *Second Time Taken*	 13009805 13009815	 EXPRPRI1 EXPRPRI2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Business, Marketing, and Finance

The Business, Marketing, and Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur to accountant, retail manager, and market analyst.

Programs of Study

- Accounting and Financial Services
- Business Management
- Entrepreneurship
- Marketing and Sales
- Real Estate
- Retail Management (Regional Program of Study)

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter F)

§127.241 Principles of Business, Marketing, and Finance (One Credit), Adopted 2015
§127.242 Touch System Data Entry (One-Half Credit), Adopted 2015
§127.243 Business Law (One Credit), Adopted 2015
§127.244 Business English (One Credit), Adopted 2015
§127.245 Foundations of Business Communication and Technologies (One Credit), Adopted 2015
§127.246 Business Communication and Technologies (One Credit), Adopted 2015
§127.247 Business Management (One Credit), Adopted 2015
§127.248 Global Business (One-Half Credit), Adopted 2015
§127.249 Virtual Business (One-Half Credit), Adopted 2015
§127.250 Human Resources Management (One-Half Credit), Adopted 2015
§127.251 Financial Mathematics (One Credit), Adopted 2015
§127.252 Money Matters (One Credit), Adopted 2015
§127.253 Securities and Investments (One Credit), Adopted 2015
§127.254 Insurance Operations (One Credit), Adopted 2015
§127.255 Banking and Financial Services (One-Half Credit), Adopted 2015
§127.256 Accounting I (One Credit), Adopted 2015
§127.257 Accounting II (One Credit), Adopted 2015
§127.258 Financial Analysis (One Credit), Adopted 2015
§127.259 Statistics and Business Decision Making (One Credit), Adopted 2015
§127.260 Advertising (One-Half Credit), Adopted 2015
§127.262 Marketing (One Credit), Adopted 2025
§127.263 Retail Management (One Credit), Adopted 2025
§127.264 Fashion Marketing (One-Half Credit), Adopted 2015
§127.265 Social Media Marketing (One-Half Credit), Adopted 2015
§127.266 Sports and Entertainment Marketing (One-Half Credit), Adopted 2015
§127.268 Advanced Marketing (Two Credits), Adopted 2015
§127.275 Entrepreneurship I (One Credit), Adopted 2023
§127.276 Entrepreneurship II (One Credit), Adopted 2023
§127.294 Business Lab (One Credit), Adopted 2015
§127.295 Practicum in Business Management (Two Credits), Adopted 2015
§127.296 Extended Practicum in Business Management (One Credit), Adopted 2015
§127.297 Practicum in Marketing (Two Credits), Adopted 2015
§127.298 Extended Practicum in Marketing (One Credit), Adopted 2015
§127.299 Practicum in Entrepreneurship (Two Credits), Adopted 2023
§127.300 Extended Practicum in Entrepreneurship (One Credit), Adopted 2023

Innovative Courses

- Fundamentals of Real Estate
- Sports and Entertainment Marketing II

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Accounting and Financial Services

The Accounting and Financial Services program of study focuses on occupational and educational opportunities associated with examining, analyzing, and interpreting financial records. It includes exploration of financial services, preparing financial statements, auditing financial statements prepared by others, and interpreting accounting records. This program of study also introduces students to mathematical modeling tools.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
1	Foundations of Business Communication and Technologies*	13011400	FDNBUSI	1
1	Foundations of Business Communication and Technologies + Business Lab*	13011410	FDNBULAB	2
1	Money Matters	13016200	MONEYM	1
2	Accounting I	13016600	ACCOUNT1	1
2	Banking and Financial Services	13016300	BANKFIN	.5
2	Financial Mathematics*	13018000	FINMATH	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Accounting II	13016700	ACCOUNT2	1
3	Insurance Operations*	13016500	INSOPS	1
3	Financial Analysis*	13016800	FINANAL	1
4	Securities and Investments	13016400	SECINV	1
4	Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012200 13012210	 PRACBM PRACBM2	 2 2
4	Practicum in Business Management + Extended Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012205 13012215	 EXPRBM EXPRBM2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Business Management

The Business Management program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources. This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
1	Foundations of Business Communication and Technologies*	13011400	FDNBUSI	1
1	Foundations of Business Communication and Technologies + Business Lab*	13011410	FDNBULAB	2
2	Virtual Business*	13012000	VIRTBUS	.5
2	Business Law*	13011700	BUSLAW	1
2	Business Communication and Technologies	13011500	BUSICT	1
2	Business Communication and Technologies + Business Lab	13011510	BUSICTLAB	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Business Management*	13012100	BUSMGT	1
3	Global Business*	13011800	GLOBBUS	.5
3	Human Resources Management*	13011900	HRMGT	.5
4	Statistics and Business Decision Making*	13016900	STATBDM	1
4	Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012200 13012210	 PRACBM PRACBM2	 2 2
4	Practicum in Business Management + Extended Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012205 13012215	 EXPRBM EXPRBM2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Entrepreneurship

The Entrepreneurship program of study focuses on occupational and educational opportunities associated with planning, launching, directing, and coordinating public or private sector ventures. This program of study includes formulating policies, launching businesses or organizations, managing daily operations, analyzing management structures, and planning for the use of materials and human resources.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
1	Foundations of Business Communication and Technologies*	13011400	FDNBUSI	1
1	Foundations of Business Communication and Technologies + Business Lab*	13011410	FDNBULAB	2
2	Entrepreneurship I*	13011101	ENTPR1	1
2	Foundations of User Experience*	13027525	FNDUX	1
3	Entrepreneurship II	13011102	ENTPR2	1
3	Mobile Application Development*	03580390	TAMBAD	1
4	Statistics and Business Decision Making*	13016900	STATBDM	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Practicum in Business Management* *First Time Taken* *Second Time Taken*	13012200 13012210	PRACBM PRACBM2	2 2
4	Practicum in Business Management + Extended Practicum in Business Management* *First Time Taken* *Second Time Taken*	13012205 13012215	EXPRBM EXPRBM2	3 3
4	Practicum in Marketing* *First Time Taken* *Second Time Taken*	13034800 13034810	PRACMKT1 PRACMKT2	2 2
4	Practicum in Marketing + Extended Practicum in Marketing* *First Time Taken* *Second Time Taken*	13034805 13034815	EXPRMKT1 EXPRMKT2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Marketing and Sales

The Marketing and Sales program of study focuses on occupational and educational opportunities associated with collecting information to estimate potential sales of a product or service and create campaigns to market or distribute goods and services. It includes applying data related to customer demographics, preferences, needs, and buying habits.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
1	Digital Media*	13027800	DIMEDIA	1
2	Marketing*	13011131	MRKTNG	1
2	Sports and Entertainment Marketing*	13034600	SPORTSEM	.5
2	Fashion Marketing	13034300	FASHMKTG	.5
2	Virtual Business*	13012000	VIRTBUS	.5
2	Digital Design and Media Production*	03580400	TADGDMP	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Event and Meeting Planning*	13022730	INTMTGPL	1
3	Fundamentals of Real Estate*	N1301120	FUNDRE	2
3	Sports and Entertainment Marketing II	N1303422	SPORTEM2	.5
3	Advertising*	13034200	ADVERTIS	.5
3	Social Media Marketing	13034650	SMEDMKTG	.5
3	Insurance Operations*	13016500	INSOPS	1
3	Retail Management*	13011133	RTLMGMT	1
4	Advanced Marketing	13034700	ADVMKTG	2
4	Statistics and Business Decision Making*	13016900	STATBDM	1
4	Practicum in Marketing* *First Time Taken* *Second Time Taken*	 13034800 13034810	 PRACMKT1 PRACMKT2	 2 2
4	Practicum in Marketing + Extended Practicum in Marketing* *First Time Taken* *Second Time Taken*	 13034805 13034815	 EXPRMKT1 EXPRMKT2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Real Estate

The Real Estate program of study focuses on occupational and educational opportunities associated with financing, selling, and contracting real estate. This program of study includes management, economics, marketing, and financial principles of real estate evaluation. It also addresses commercial real estate including lending, developing, brokering, and financing.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
1	Professional Communications*	13009900	PROFCOMM	.5
2	Interior Design I*	13004300	INTERDS1	1
2	Entrepreneurship I*	13011101	ENTPR1	1
2	Business Law*	13011700	BUSLAW	1
2	Financial Mathematics*	13018000	FINMATH	1
2	Marketing*	13011131	MRKTNG	1
3	Fundamentals of Real Estate*	N1301120	FUNDRE	2
3	Insurance Operations*	13016500	INSOPS	1
3	Financial Analysis*	13016800	FINANAL	1
4	Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012200 13012210	 PRACBM PRACBM2	 2 2
4	Practicum in Business Management + Extended Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012205 13012215	 EXPRBM EXPRBM2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Retail Management (Regional Program of Study)

Approved in ESC Regions 4, 19, and 20

**** The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.***

The Retail Management regional program of study focuses on occupational and educational opportunities associated with driving sales through innovative approaches and strategic planning. It includes product development, customer intercepts, package engineering, and organizational development. This program of study also addresses human resources, advertising, social media, logistics, and employee relationships.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
2	Foundations of User Experience*	13027525	FNDUX	1
3	Retail Management*	13011133	RTLMGMT	1
3	Human Resources Management*	13011900	HRMGT	.5
3	Advertising*	13034200	ADVERTIS	.5
4	Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012200 13012210	 PRACBM PRACBM2	 2 2
4	Practicum in Business Management + Extended Practicum in Business Management* *First Time Taken* *Second Time Taken*	 13012205 13012215	 EXPRBM EXPRBM2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Education and Training

The Education and Training career cluster focuses on planning, managing, and providing education and training services and related learning support services. This career cluster includes occupations ranging from teaching assistant and classroom teacher to school administrator.

Programs of Study

- Early Learning
- Teaching and Training

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter G)

§127.309 Principles of Education and Training (One Credit), Adopted 2021
§127.310 Human Growth and Development (One Credit), Adopted 2021
§127.311 Child Development (One Credit), Adopted 2021
§127.312 Child Guidance (Two Credits), Adopted 2021
§127.313 Child Development Associate Foundations (One Credit), Adopted 2021
§127.314 Communication and Technology in Education (One Credit), Adopted 2021
§127.315 Instructional Practices (Two Credits), Adopted 2021
§127.343 Practicum in Early Learning (Two Credits), Adopted 2021
§127.344 Extended Practicum in Early Learning (One Credit), Adopted 2021
§127.345 Practicum in Education and Training (Two Credits), Adopted 2021
§127.346 Extended Practicum in Education and Training (One Credit), Adopted 2015

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Early Learning

The Early Learning program of study focuses on occupational and educational opportunities associated with instructing and supporting preschool and early elementary school students. This program of study addresses social, physical, and intellectual growth and skills necessary for planning, directing, and coordinating activities for young children.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Education and Training*	13014200	PRINEDTR	1
1	Principles of Human Services*	13024200	PRINHUSR	1
2	Child Development*	13024700	CHILDDEV	1
2	Child Development Associate Foundations*	13024710	CDAFND	1
2	Speech and Language Development*	13021291	SPCHLDEV	1
3	Child Guidance	13024800	CHILDGUI	2
3	Speech Communication Disorders*	13021292	SPCOMDIS	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Early Learning *First Time Taken* *Second Time Taken*	13014520 13014530	PRACEL1 PRACEL2	2 2
4	Practicum in Early Learning + Extended Practicum in Early Learning *First Time Taken* *Second Time Taken*	13014525 13014535	EXPREL1 EXPREL2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Teaching and Training

The Teaching and Training program of study focuses on occupational and educational opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials. The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Education and Training*	13014200	PRINEDTR	1
1	Principles of Human Services*	13024200	PRINHUSR	1
2	Communication and Technology in Education	13014310	CMTED	1
2	Human Growth and Development*	13014300	HUGRDEV	1
2	Child Development*	13024700	CHILDDEV	1
3	Instructional Practices	13014400	INPRAC	2
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Education and Training *First Time Taken* *Second Time Taken*	13014500 13014510	PRACEDT1 PRACEDT2	2 2
4	Practicum in Education and Training + Extended Practicum in Education and Training *First Time Taken* *Second Time Taken*	13014505 13014515	EXPREDT1 EXPREDT2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Energy

The Energy career cluster prepares individuals for careers in the designing, processing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy. This career cluster includes occupations ranging from petroleum engineers, rotary drill operators, chemical technicians and, power plant operators to solar photovoltaic installers and wind turbine service technicians.

Programs of Study

- Oil and Gas Exploration and Production
- Refining and Chemical Processes
- Renewable Energy

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter H)

§127.351 Foundations of Energy (One Credit), Adopted 2020
§127.352 Oil and Gas Production I (One Credit), Adopted 2020
§127.353 Oil and Gas Production II (One Credit), Adopted 2020
§127.354 Oil and Gas Production III (One Credit), Adopted 2020
§127.355 Oil and Gas Production IV (One Credit), Adopted 2020
§127.356 Introduction to Process Technology (One Credit), Adopted 2020
§127.357 Petrochemical Safety, Health, and Environment (One Credit), Adopted 2020

Innovative Courses

- Advanced Instrument and Electrical
- Introduction to Instrumentation and Electrical
- Practicum in Energy

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Oil and Gas Exploration and Production

The Oil and Gas Exploration and Production program of study focuses on occupational and educational opportunities associated with processing, refining, and distributing petroleum and gas. This program of study includes the process of regulating the flow of oil into pipelines, controlling pumping systems, and operating and maintaining machinery to generate electric power.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Oil and Gas Production I	13001250	OILGP1	1
1	Foundations of Energy*	13040503	FOUNDEN	1
2	Oil and Gas Production II	13001260	OILGP2	1
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
3	Oil and Gas Production III	13040500	OGPROD3	1
4	Oil and Gas Production IV	13040501	OGPROD4	1
4	Applied Mathematics for Technical Professionals*	12701410	APMATHTP	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Energy*	N1303910	PRACENRG	2
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Refining and Chemical Processes

The Refining and Chemical Processes program of study focuses on occupational and educational opportunities associated with how to monitor, adjust, and operate equipment housed in petrochemical plants and refineries. This program of study includes exploration of computer technology and instrumentation used to operate a variety of systems and industrial processes.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Foundations of Energy*	13040503	FOUNDEN	1
1	Principles of Distribution and Logistics*	13039260	PRINDILG	1
2	Introduction to Process Technology	13040502	INTRPT	1
2	Introduction to Instrumentation and Electrical	N1303900	INSTELEC	1
3	Petrochemical Safety, Health, and Environment	13040504	PSHAE	1
3	Advanced Instrument and Electrical	N1303901	ADVINELEC	1
4	Applied Mathematics for Technical Professionals*	12701410	APMATHTP	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Energy*	N1303910	PRACENRG	2
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Renewable Energy

The Renewable Energy program of study focuses on occupational and educational opportunities associated with assembling, inspecting, maintaining, and repairing different equipment required for renewable energy. This program of study includes exploration of solar photovoltaic equipment and wind turbines and the systems and processes used to maintain and manage these types of equipment.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Foundations of Energy*	13040503	FOUNDEN	1
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
2	Electrical Technology I*	13005600	ELECTEC1	1
2	AC/DC Electronics*	13036800	ACDCELEC	1
3	Energy and Natural Resource Technology*	13001100	ENGNRT	1
3	Solid State Electronics*	13036900	SOSTELEC	1
3	Digital Electronics*	13037600	DIGELC	1
3	Environmental Engineering*	12756010	ENVRENGR	1
3	Electrical Technology II	13005700	ELECTEC2	2
4	Engineering Design and Problem Solving*	13037300	ENGDPRS	1
4	Applied Mathematics for Technical Professionals*	12701410	APMATHTP	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Energy*	N1303910	PRACENRG	2
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

Engineering

The Engineering career cluster focuses on planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles. This career cluster includes occupation ranging from mechanical engineer and drafter to electrical engineer and to mapping technician.

Programs of Study

- Civil Engineering
- Drone (Unmanned Vehicle) (Regional Program of Study)
- Electrical Engineering
- Engineering Foundations
- Geospatial Engineering and Land Surveying (Regional Program of Study)
- Mechanical and Aerospace Engineering

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter I)

§127.391 Principles of Applied Engineering (One Credit), Adopted 2021
§127.392 AC/DC Electronics (One Credit), Adopted 2015
§127.393 Solid State Electronics (One Credit), Adopted 2015
§127.394 Digital Electronics (One Credit), Adopted 2015
§127.395 Robotics I (One Credit), Adopted 2015
§127.396 Robotics II (One Credit), Adopted 2015
§127.397 Engineering Science (One Credit), Adopted 2021
§127.398 Engineering Mathematics (One Credit), Adopted 2015
§127.399 Introduction to Computer-Aided Design and Drafting (One Credit), Adopted 2021
§127.400 Intermediate Computer-Aided Design and Drafting (One Credit), Adopted 2021
§127.401 Physics for Engineering (One Credit), Adopted 2024
§127.402 Engineering Design Process (One Credit), Adopted 2025
§127.403 Programming for Engineers (One Credit), Adopted 2025
§127.404 Engineering Design and Presentation (One Credit), Adopted 2025
§127.405 Advanced Engineering Design and Presentation (Two Credits), Adopted 2025
§127.406 Engineering Design and Problem Solving (One Credit), Adopted 2025
§127.407 Environmental Engineering (One Credit), Adopted 2025
§127.408 Fluid Mechanics (One Credit), Adopted 2025
§127.409 Mechanics of Materials (One Credit), Adopted 2025
§127.410 Statics (One Credit), Adopted 2025
§127.411 Mechanical Design I (One Credit), Adopted 2025
§127.412 Mechanical Design II (Two Credits), Adopted 2025
§127.413 Aerospace Design I (One Credit), Adopted 2025
§127.414 Aerospace Design II (Two Credits), Adopted 2025
§127.415 Civil Engineering I (One Credit), Adopted 2025
§127.416 Civil Engineering II (Two Credits), Adopted 2025
§127.417 Engineering Project Management (One Credit), Adopted 2025
§127.418 Architectural Engineering (Two Credits), Adopted 2025
§127.419 Surveying and Geomatics (Two Credits), Adopted 2025
§127.452 Practicum in Engineering (Two Credits), Adopted 2025
§127.453 Extended Practicum in Engineering (One Credit), Adopted 2025

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Civil Engineering

The Civil Engineering program of study focuses on occupational and educational opportunities associated with the design, build, operation, and maintenance of infrastructure related to roads, buildings, airports, bridges, and transportation systems. This program of study includes exploration of infrastructure, site inspections, feasibility assessments and scope, and cost estimates. It addresses applying scientific, mathematical, and empirical evidence to solve problems in construction, infrastructure, and the environment.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Physics for Engineering*	13037150	PHYSENGR	1
1	Introduction to Computer-Aided Design and Drafting*	13037350	INTRCADD	1
2	Intermediate Computer-Aided Design and Drafting*	13037360	INTMCADD	1
2	Geographic Information Systems (GIS)*	13027545	GISYS	1
2	Civil Engineering I	12756050	CVENGR1	1
2	Surveying and Geomatics	12756070	SURVGEO	2
2	Engineering Project Management*	12756060	ENGRMGMT	1
3	Engineering Design and Presentation*	13036500	ENGRDP	1
3	Engineering Mathematics*	13036700	ENGMATH	1
3	Topographical Drafting	N1300421	TOPDR	1
3	Spatial Technology and Remote Sensing*	13027555	SPTECHRS	1
3	Architectural Engineering*	12756065	ARCHENGR	2
3	Civil Engineering II	12756055	CVENGR2	2
3	Programming for Engineers*	12756005	PROGENGR	1
4	Advanced Engineering Design and Presentation*	13036600	ADENGRDP	2
4	Engineering Design and Problem Solving*	13037300	ENGDPRS	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

Drone (Unmanned Vehicle) (Regional Program of Study)

Approved in ESC Regions 2, 4, 5, 6, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, and 20

****The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.***

The Drone (Unmanned Vehicle) regional program of study focuses on the occupational and educational opportunities associated with operating or designing an unmanned aircraft using a ground-based controller. This program of study includes understanding and designing systems of communications between the controller and the aircraft to ensure compliance with federal aviation safety regulations.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Introduction to Aerospace and Aviation*	N1304672	INTAEAVI	1
2	Introduction to Unmanned Aerial Vehicles (UAV)*	N1304670	PRINUAV	1
2	Robotics I*	13037000	ROBOTIC1	1
3	Engineering Science*	13037500	ENGSCIEN	1
3	Digital Electronics*	13037600	DIGELC	1
3	Robotics II*	13037050	ROBOTIC2	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	13033000 13033010	PRACMAN1 PRACMAN2	2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	13033005 13033015	EXPRMAN1 EXPRMAN2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Electrical Engineering

The Electrical Engineering program of study focuses on occupational and educational opportunities associated with the design, development, testing, and supervision of electrical equipment and systems. Students will design, test, and evaluate projects related to electrical motors, radar, navigation systems, and communication systems. This program of study includes applying scientific, mathematical, and empirical evidence to solve problems in electrical systems associated with instruments, facilities, components, and equipment.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Physics for Engineering*	13037150	PHYSENGR	1
1	Introduction to Computer-Aided Design and Drafting*	13037350	INTRCADD	1
1	Engineering Design Process*	12756001	ENGRDSP	1
2	Intermediate Computer-Aided Design and Drafting*	13037360	INTMCADD	1
2	Robotics I*	13037000	ROBOTIC1	1
2	Programmable Logic Controller I*	N1303689	PROLGCNT1	1
2	Manufacturing Engineering Technology I*	13032900	MANENGT1	1
2	AC/DC Electronics*	13036800	ACDCELEC	1
3	Engineering Design and Presentation*	13036500	ENGRDP	1
3	Robotics II*	13037050	ROBOTIC2	1
3	Programmable Logic Controller II*	N1303690	PROLGCNT2	1
3	Engineering Mathematics*	13036700	ENGMATH	1
3	Solid State Electronics*	13036900	SOSTELEC	1
3	Engineering Science*	13037500	ENGSCIEN	1
3	Digital Electronics*	13037600	DIGELC	1
3	Computer Integrated Manufacturing (PLTW)*	N1303748	CIM	1
4	Advanced Engineering Design and Presentation*	13036600	ADENGRDP	2
4	Engineering Design and Problem Solving*	13037300	ENGDPRS	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Engineering Foundations

The Engineering Foundations program of study focuses on occupational and educational opportunities associated with a wide range of skills applied in the Engineering industry. Students will design, test, and evaluate projects related to engines, machines, and structures. This program of study incudes applying scientific, mathematical, and empirical evidence to solve problems through innovation, design, construction, operation, and maintenance of different engineering systems.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Physics for Engineering*	13037150	PHYSENGR	1
1	Introduction to Computer-Aided Design and Drafting*	13037350	INTRCADD	1
1	Engineering Design Process*	12756001	ENGRDSP	1
2	Intermediate Computer-Aided Design and Drafting*	13037360	INTMCADD	1
2	Manufacturing Engineering Technology I*	13032900	MANENGT1	1
2	Robotics I*	13037000	ROBOTIC1	1
2	Engineering Project Management*	12756060	ENGRMGMT	1
2	Aerospace Design I*	12756040	AERODES1	1
3	Engineering Design and Presentation*	13036500	ENGRDP	1
3	Robotics II*	13037050	ROBOTIC2	1
3	Engineering Mathematics*	13036700	ENGMATH	1
3	Engineering Science*	13037500	ENGSCIEN	1
3	Digital Electronics*	13037600	DIGELC	1
3	Environmental Engineering *	12756010	ENVRENGR	1
3	Architectural Engineering*	12756065	ARCHENGR	2
3	Computer Integrated Manufacturing (PLTW)*	N1303748	CIM	1
3	Fluid Mechanics	12756015	FLMECH	1
3	Mechanics of Materials	12756020	MECHMAT	1
3	Statics	12756025	STATICS	1
3	Programming for Engineers*	12756005	PROGENGR	1
3	Aerospace Design II*	12756045	AERODES2	2
4	Advanced Engineering Design and Presentation*	13036600	ADENGRDP	2
4	Engineering Design and Problem Solving*	13037300	ENGDPRS	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Geospatial Engineering and Land Surveying (Regional Program of Study)
Approved in ESC Regions 2, 4, 10, 11, 13, and 20
****The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.***

The Geospatial Engineering and Land Surveying regional program of study focuses on occupational and educational opportunities associated with surveying, automated computer-aided drafting, geographical information systems and raster-based geographic information systems. This program of study includes the exploration of remote sensing, geoscience, and mapping.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Principles of Architecture*	13004210	PRINARC	1
2	Geographic Information Systems (GIS)*	13027545	GISYS	1
2	Raster-Based Geographic Information Systems*	13027550	RASGIS	1
3	*(Not Identified)*			
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Mechanical and Aerospace Engineering

The Mechanical and Aerospace Engineering program of study focuses on occupational and educational opportunities associated with the design, development, maintenance, and testing of engines, machines, and structures related to aircraft and spacecraft. Students will design, test, and evaluate projects related to aerodynamics, structural, and mechanical design. This program of study includes applying scientific, mathematical, and empirical evidence to solve problems related to navigation, mechanics, robotics, propulsion, and combustion.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Physics for Engineering*	13037150	PHYSENGR	1
1	Introduction to Aerospace and Aviation*	N1304672	INTAEAVI	1
1	Introduction to Computer-Aided Design and Drafting*	13037350	INTRCADD	1
1	Engineering Design Process*	12756001	ENGRDSP	1
2	Intermediate Computer-Aided Design and Drafting*	13037360	INTMCADD	1
2	Aerospace Design I*	12756040	AERODES1	1
3	Engineering Design and Presentation*	13036500	ENGRDP	1
3	Engineering Mathematics*	13036700	ENGMATH	1
3	Engineering Science*	13037500	ENGSCIEN	1
3	Mechanical Design I	12756030	MECHDES1	1
3	Aerospace Design II*	12756045	AERODES2	2
4	Engineering Design and Problem Solving*	13037300	ENGDPRS	1
4	Advanced Engineering Design and Presentation*	13036600	ADENGRDP	2
4	Mechanical Design II	12756035	MECHDES2	2
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

Health Science

The Health Science career cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.

Programs of Study

- Biomedical Science
- Diagnostic and Therapeutic Services
- Exercise Science, Wellness, and Restoration
- Health Informatics
- Nursing Science

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter J)

§127.461 Principles of Health Science (One Credit), Adopted 2015
§127.462 Principles of Bioscience (One Credit), Adopted 2021
§127.474 Mathematics for Medical Professionals (One Credit), Adopted 2015
§127.475 Biotechnology I (One Credit), Adopted 2021
§127.476 Biotechnology II (One Credit), Adopted 2021
§127.477 Medical Terminology (One Credit), Adopted 2021
§127.478 Health Science Theory (One Credit), Adopted 2021
§127.479 Health Science Clinical (One Credit), Adopted 2015
§127.480 World Health and Emerging Technologies (One Credit), Adopted 2021
§127.481 Anatomy and Physiology (One Credit), Adopted 2021
§127.482 Pathophysiology (One Credit), Adopted 2021
§127.483 Pharmacy I (One Credit), Adopted 2021
§127.484 Pharmacy II (Two Credits), Adopted 2021
§127.485 Pharmacology (One Credit), Adopted 2021
§127.486 Medical Microbiology (One Credit), Adopted 2021
§127.487 Health Informatics (One Credit), Adopted 2021
§127.488 Medical Billing and Coding (One Credit), Adopted 2021
§127.489 Medical Assistant (One Credit), Adopted 2021
§127.490 Respiratory Therapy I (One Credit), Adopted 2021
§127.491 Respiratory Therapy II (One Credit), Adopted 2021
§127.492 Healthcare Administration and Management (One Credit), Adopted 2021
§127.493 Leadership and Management in Nursing (One Credit), Adopted 2021
§127.510 Speech and Language Development (One Credit), Adopted 2025
§127.511 Speech Communication Disorders (One Credit), Adopted 2025
§127.553 Practicum in Health Science (Two Credits), Adopted 2015
§127.554 Extended Practicum in Health Science (One Credit), Adopted 2015
§127.555 Practicum in Nursing (Two Credits), Adopted 2021

Innovative Courses

- Allied Health Therapeutic Services
- Biomedical Innovation (PLTW)
- Clinical Ethics
- Dental Anatomy and Physiology
- Dental Equipment and Procedures
- Human Body Systems (PLTW)
- Imaging Technology I
- Imaging Technology II
- Introduction to Dental Science

Continued on next page

Innovative Courses (cont.)

- Introduction to Imaging Technology
- Introduction to Pharmacy Science
- Introduction to Speech Pathology and Audiology
- Kinesiology I
- Kinesiology II
- Medical Intervention Evaluation and Research
- Medical Interventions (PTLW)
- Occupational Therapy I
- Occupational Therapy II
- Optical Technician
- Physical Therapy I
- Physical Therapy II
- Principles of Allied Health
- Principles of Biomedical Science (PLTW)
- Principles of Diagnostic Healthcare
- Principles of Exercise Science and Wellness
- Principles of Health Informatics
- Principles of Nursing Science
- Principles of Therapeutic Healthcare
- Quality Assurance for Biosciences
- Science of Nursing

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Biomedical Science

The Biomedical Science program of study focuses on occupational and educational opportunities associated with the study of biology and medicine. This program of study includes researching and diagnosing diseases, pre-existing conditions, and other determinants of health. Students will also practice patient care and communication.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Health Science*	13020200	PRINHLSC	1
1	Principles of Bioscience	13036300	PRBIOSCI	1
1	Principles of Biomedical Science (PLTW)	N1302092	PRBIOSCI	1
2	Medical Terminology*	13020300	MEDTERM	1
2	Biotechnology I	13036400	BIOTECH1	1
2	Human Body Systems (PLTW)	N1302093	HUMBODSY	1
3	Medical Microbiology*	13020700	MICRO	1
3	Biotechnology II	13036450	BIOTECH2	1
3	Clinical Ethics*	N1302121	CLINETH	1
3	Quality Assurance for Biosciences	N1303771	QABIOS	1
3	Anatomy and Physiology*	13020600	ANATPHYS	1
3	Medical Interventions (PLTW)	N1302094	MEDINT	1
4	Pathophysiology*	13020800	PATHO	1
4	Biomedical Innovation (PLTW)	N1302095	BIOINN	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Health Science* *First Time Taken* *Second Time Taken*	13020500 13020510	PRACHLS1 PRACHLS2	2 2
4	Practicum in Health Science + Extended Practicum in Health Science* *First Time Taken* *Second Time Taken*	13020505 13020515	EXPRHLS1 EXPRHLS2	3 3
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756080 12756090	PRCENGR1 PRCENGR2	2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	12756085 12756095	EXPRENG1 EXPRENG2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

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Diagnostic and Therapeutic Services

The Diagnostic and Therapeutic Services program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Health Science*	13020200	PRINHLSC	1
1	Principles of Diagnostic Healthcare	N1302106	DIGHLTH	1
1	Principles of Therapeutic Healthcare	N1302110	THERHLTH	1
1	Principles of Allied Health*	N1302105	ALLHLTH	1
1	Introduction to Dental Science	N1302101	DNTSCI	1
1	Introduction to Imaging Technology	N1302102	IMGTECH	1
1	Introduction to Pharmacy Science	N1302103	PHARSCI	1
2	Medical Terminology*	13020300	MEDTERM	1
2	Allied Health Therapeutic Services*	N1302120	ALLHTS	1
2	Dental Anatomy and Physiology	N1302122	DENAP	1
2	Disaster Response*	N1303011	DISRESP	1
2	Imaging Technology I	N1302123	IMGTEC1	1
2	Pharmacy I	13021020	PHARMI	1
3	Anatomy and Physiology*	13020600	ANATPHYS	1
3	Medical Microbiology*	13020700	MICRO	1
3	Medical Assistant	13021015	MEDASST	1
3	Emergency Medical Technician–Basic*	N1303015	EMTB	2
3	Clinical Ethics*	N1302121	CLINETH	1
3	Dental Equipment and Procedures	N1302130	DENTEP	1
3	Health Science Theory*	13020400	HLTHSCI	1
3	Health Science Theory + Health Science Clinical*	13020410	HLSCLIN	2
3	Respiratory Therapy I	13021120	RESPTHI	1
3	Imaging Technology II	N1302131	IMGTEC2	2
3	Pharmacy II	13021030	PHARMII	2
4	Mathematics for Medical Professionals*	13020970	MTHMEDPR	1
4	Pathophysiology*	13020800	PATHO	1
4	Pharmacology*	13020950	PHARMC	1
4	Respiratory Therapy II	13021122	RESPTHII	1
4	Optical Technician	N1302126	OPTTEC	1
4	Practicum in Health Science* *First Time Taken* *Second Time Taken*	 13020500 13020510	 PRACHLS1 PRACHLS2	 2 2
4	Practicum in Health Science + Extended Practicum in Health Science* *First Time Taken* *Second Time Taken*	 13020505 13020515	 EXPRHLS1 EXPRHLS2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Exercise Science, Wellness, and Restoration

The Exercise Science, Wellness, and Restoration program of study focuses on occupational and educational opportunities associated with assisting patients with maintaining physical, mental, and emotional health. This program of study includes researching diet and exercise needed to maintain a healthy, balanced lifestyle and exploring techniques to help patients recover from injury, illness, or disease.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Health Science*	13020200	PRINHLSC	1
1	Principles of Allied Health*	N1302105	ALLHLTH	1
1	Principles of Exercise Science and Wellness	N1302107	EXSCIWL	1
1	Principles of Community Services*	N1302542	COMMSERV	1
1	Introduction to Speech Pathology and Audiology	N1302100	INTSPA	1
2	Interpersonal Studies*	13024400	INTERSTU	.5
2	Lifetime Nutrition and Wellness*	13024500	LNURTWEL	.5
2	Medical Terminology*	13020300	MEDTERM	1
2	Speech and Language Development*	13021291	SPCHLDEV	1
2	Kinesiology I	N1302104	KINES1	1
2	Allied Health Therapeutic Services*	N1302120	ALLHTS	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Health Science Theory*	13020400	HLTHSCI	1
3	Health Science Theory + Health Science Clinical*	13020410	HLSCLIN	2
3	Anatomy and Physiology*	13020600	ANATPHYS	1
3	Speech Communication Disorders*	13021292	SPCOMDIS	1
3	Kinesiology II	N1302124	KINES2	1
3	Physical Therapy I	N1302128	PHYTHER1	1
3	Occupational Therapy I	N1302132	OCCHLTH1	1
3	Applied Nutrition and Dietetics*	N1302541	APPNUTR	1
4	Occupational Therapy II	N1302133	OCCHLTH2	1
4	Physical Therapy II	N1302134	PHYTHER2	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Practicum in Health Science* *First Time Taken* *Second Time Taken*	13020500 13020510	PRACHLS1 PRACHLS2	2 2
4	Practicum in Health Science + Extended Practicum in Health Science* *First Time Taken* *Second Time Taken*	13020505 13020515	EXPRHLS1 EXPRHLS2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Health Informatics

The Health Informatics program of study focuses on occupational and educational opportunities associated with the management and use of patient information in the healthcare field. This program of study includes exploration of computerized healthcare systems and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students will also practice writing and interpreting medical reports.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Health Science*	13020200	PRINHLSC	1
1	Principles of Health Informatics	N1302108	HLTHINF	1
1	Foundations of Business Communication and Technologies*	13011400	FDNBUSI	1
1	Foundations of Business Communication and Technologies + Business Lab*	13011410	FDNBULAB	2
2	Medical Terminology*	13020300	MEDTERM	1
2	Medical Intervention Evaluation and Research	N1302125	MEDINEV	1
3	Health Informatics	13020960	HLTHINF	1
3	Healthcare Administration and Management	13020962	HLTHAM	1
3	Health Science Theory*	13020400	HLTHSCI	1
3	Health Science Theory + Health Science Clinical*	13020410	HLSCLIN	2
4	World Health and Emerging Technologies	13020900	WORLDHT	1
4	Mathematics for Medical Professionals*	13020970	MTHMEDPR	1
4	Medical Billing and Coding	13020964	MEDBC	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Health Science* *First Time Taken* *Second Time Taken*	13020500 13020510	PRACHLS1 PRACHLS2	2 2
4	Practicum in Health Science + Extended Practicum in Health Science* *First Time Taken* *Second Time Taken*	13020505 13020515	EXPRHLS1 EXPRHLS2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Nursing Science

The Nursing Science program of study focuses on occupational and educational opportunities associated with patient care. This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing, and implementing care plans, maintaining medical records, and managing disease or pain.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Health Science*	13020200	PRINHLSC	1
1	Principles of Nursing Science	N1302109	NURSSCI	1
2	Science of Nursing	N1302129	SCINURS	1
2	Medical Terminology*	13020300	MEDTERM	1
3	Health Science Theory*	13020400	HLTHSCI	1
3	Health Science Theory + Health Science Clinical*	13020410	HLSCLIN	2
3	Anatomy and Physiology*	13020600	ANATPHYS	1
3	Medical Microbiology*	13020700	MICRO	1
3	Leadership and Management in Nursing	13021225	LMNURS	1
3	Clinical Ethics*	N1302121	CLINETH	1
4	Pathophysiology*	13020800	PATHO	1
4	Pharmacology*	13020950	PHARMC	1
4	Practicum in Nursing	13021230	PRACNRS	2
4	Practicum in Health Science* *First Time Taken* *Second Time Taken*	 13020500 13020510	 PRACHLS1 PRACHLS2	 2 2
4	Practicum in Health Science + Extended Practicum in Health Science* *First Time Taken* *Second Time Taken*	 13020505 13020515	 EXPRHLS1 EXPRHLS2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Hospitality and Tourism

The Hospitality and Tourism career cluster focuses on the management, marketing, and operations of restaurants, lodging, attractions, recreation events, and travel-related services. This career cluster includes occupations ranging from reservation and transportation ticket agent to event planner and general manager.

Programs of Study

- Culinary Arts
- Lodging and Resort Management
- Travel, Tourism, and Attractions

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter K)

§127.561 Principles of Hospitality and Tourism (One Credit), Adopted 2015
§127.562 Introduction to Culinary Arts (One Credit), Adopted 2015
§127.563 Culinary Arts (Two Credits), Adopted 2015
§127.564 Advanced Culinary Arts (Two Credits), Adopted 2015
§127.565 Food Science (One Credit), Adopted 2021
§127.566 Travel and Tourism Management (One Credit), Adopted 2015
§127.567 Hotel Management (One Credit), Adopted 2015
§127.568 Hospitality Services (Two Credits), Adopted 2015
§127.569 Foundations of Restaurant Management (One Credit), Adopted 2025
§127.571 Event and Meeting Planning (One Credit), Adopted 2025
§127.600 Practicum in Culinary Arts (Two Credits), Adopted 2015
§127.601 Extended Practicum in Culinary Arts (One Credit), Adopted 2015
§127.602 Practicum in Hospitality Services (Two Credits), Adopted 2015
§127.603 Extended Practicum in Hospitality Services (One Credit), Adopted 2015
§127.604 Practicum in Event and Meeting Planning (Two Credits), Adopted 2025

Innovative Courses

- Tourism Marketing Concepts and Applications

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Culinary Arts

The Culinary Arts program of study focuses on occupational and educational opportunities associated with the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study includes opportunities involved in directing and participating in the preparation of food.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Hospitality and Tourism*	13022200	PRINHOSP	1
1	Introduction to Culinary Arts*	13022550	INCULART	1
2	Culinary Arts	13022600	CULARTS	2
2	Entrepreneurship I*	13011101	ENTPR1	1
2	Food Technology and Safety*	13001300	FOODTS	1
2	Foundations of Restaurant Management*	13022720	RSTMGMT	1
3	Advanced Culinary Arts	13022650	ADCULART	2
3	Event and Meeting Planning*	13022730	INTMTGPL	1
3	Tourism Marketing Concepts and Applications*	N1302270	TOURMRKT	1
3	Food Processing*	13001400	FOODPRO	1
3	Food Processing + Agricultural Laboratory and Field Experience*	13001410	FOODPRLAB	2
4	Food Science*	13023000	FOODSCI	1
4	Practicum in Culinary Arts *First Time Taken* *Second Time Taken*	 13022700 13022710	 PRACCUL1 PRACCUL2	 2 2
4	Practicum in Culinary Arts + Extended Practicum in Culinary Arts *First Time Taken* *Second Time Taken*	 13022705 13022715	 EXPRCUL1 EXPRCUL2	 3 3
4	Practicum in Event and Meeting Planning* *First Time Taken* *Second Time Taken*	 13022920 13022930	 PRACEMP1 PRACEMP2	 2 2
4	Practicum in Event and Meeting Planning + Extended Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022925 13022935	 EXPREMP1 EXPREMP2	 3 3
4	Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022900 13022910	 PRACHOS1 PRACHOS2	 2 2
4	Practicum in Hospitality Services + Extended Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022905 13022915	 EXPRHOS1 EXPRHOS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
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Level	Course Title	Course Code	Course Abbreviation	Credits
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Lodging and Resort Management

The Lodging and Resort Management program of study focuses on occupational and educational opportunities associated with the logistical and operational management of lodging and resorts. This program of study addresses human resources, financial analysis, and marketing.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Hospitality and Tourism*	13022200	PRINHOSP	1
1	Principles of Business, Marketing, and Finance*	13011200	PRINBMF	1
2	Hotel Management*	13022300	HOTELMGT	1
2	Travel and Tourism Management*	13022500	TRTORMGT	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Event and Meeting Planning*	13022730	INTMTGPL	1
3	Business Management*	13012100	BUSMGT	1
3	Tourism Marketing Concepts and Applications*	N1302270	TOURMRKT	1
3	Hospitality Services*	13022800	HOSPSRVS	2
4	Practicum in Event and Meeting Planning* *First Time Taken* *Second Time Taken*	 13022920 13022930	 PRACEMP1 PRACEMP2	 2 2
4	Practicum in Event and Meeting Planning + Extended Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022925 13022935	 EXPREMP1 EXPREMP2	 3 3
4	Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022900 13022910	 PRACHOS1 PRACHOS2	 2 2
4	Practicum in Hospitality Services + Extended Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022905 13022915	 EXPRHOS1 EXPRHOS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Travel, Tourism, and Attractions

The Travel, Tourism, and Attractions program of study focuses on occupational and educational opportunities associated with the marketing and sales of travel and tourism services. This program of study includes planning, directing, and coordinating marketing or business policies and programs. Students will identify potential customers and determine demand and promotional strategies for products and services.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Hospitality and Tourism*	13022200	PRINHOSP	1
1	Introduction to Culinary Arts*	13022550	INCULART	1
2	Travel and Tourism Management*	13022500	TRTORMGT	1
2	Foundations of Restaurant Management*	13022720	RSTMGMT	1
2	Sports and Entertainment Marketing*	13034600	SPORTSEM	.5
2	Hotel Management*	13022300	HOTELMGT	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Global Business*	13011800	GLOBBUS	.5
3	Tourism Marketing Concepts and Applications*	N1302270	TOURMRKT	1
3	Hospitality Services*	13022800	HOSPSRVS	2
4	Practicum in Event and Meeting Planning* *First Time Taken* *Second Time Taken*	 13022920 13022930	 PRACEMP1 PRACEMP2	 2 2
4	Practicum in Event and Meeting Planning + Extended Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022925 13022935	 EXPREMP1 EXPREMP2	 3 3
4	Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022900 13022910	 PRACHOS1 PRACHOS2	 2 2
4	Practicum in Hospitality Services + Extended Practicum in Hospitality Services* *First Time Taken* *Second Time Taken*	 13022905 13022915	 EXPRHOS1 EXPRHOS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Human Services

The Human Services career cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs, such as counseling and mental health services, family and community services, personal care services, and consumer services. This career cluster includes occupations ranging from community health workers to cosmetologists and nutritionists.

Programs of Study

- Cosmetology and Personal Care Services (Regional Program of Study)
- Family and Community Services
- Health and Wellness

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter L)

§127.611 Principles of Human Services (One Credit), Adopted 2015
§127.612 Principles of Cosmetology Design and Color Theory (One Credit), Adopted 2015
§127.613 Dollars and Sense (One-Half Credit), Adopted 2015
§127.614 Lifetime Nutrition and Wellness (One-Half Credit), Adopted 2015
§127.615 Interpersonal Studies (One-Half Credit), Adopted 2015
§127.616 Counseling and Mental Health (One Credit), Adopted 2015
§127.617 Family and Community Services (One Credit), Adopted 2015
§127.618 Introduction to Cosmetology (One Credit), Adopted 2015
§127.619 Cosmetology I (Two Credits), Adopted 2015
§127.620 Cosmetology I Lab (One Credit), Adopted 2018
§127.621 Cosmetology II (Two Credits), Adopted 2015
§127.622 Cosmetology II Lab (One Credit), Adopted 2018
§127.665 Practicum in Human Services (Two Credits), Adopted 2015
§127.666 Extended Practicum in Human Services (One Credit), Adopted 2015

Innovative Courses

- Applied Nutrition and Dietetics
- Barbering I
- Barbering II
- Esthetics
- Microbiology and Safety for Cosmetology Careers
- Nail Care, Enhancements and Spa Services
- Principles of Community Services
- Social and Community Services

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Cosmetology and Personal Care Services (Regional Program of Study)

Approved in ESC Regions 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, and 20

****The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.***

The Cosmetology and Personal Care Services regional program of study focuses on occupational and educational opportunities associated with providing beauty and personal care services. This program of study includes managing personal care facilities and coordinating or supervising personal service workers.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Cosmetology Design and Color Theory	13025050	PRICOSMO	1
1	Microbiology and Safety for Cosmetology Careers	N1302540	MICRCOS	1
2	Introduction to Cosmetology	13025100	INTCOSMO	1
2	Nail Care, Enhancements and Spa Services	N1302531	NCESS	2
2	Esthetics	N1302533	ESTHE	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Cosmetology I	13025200	COSMET1	2
3	Cosmetology I + Cosmetology I Lab	13025210	COSLAB1	3
3	Barbering I	N1302534	BARBER1	3
4	Cosmetology II	13025300	COSMET2	2
4	Cosmetology II + Cosmetology II Lab	13025310	COSLAB2	3
4	Barbering II	N1302535	BARBER2	3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Family and Community Services

The Family and Community Services program of study focuses on occupational and educational opportunities associated with social services, including child and human development and consumer sciences. This program of study includes managing social and community services, managing family and consumer sciences, and understanding career paths in social work or therapy for children, families, or school communities.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Human Services*	13024200	PRINHUSR	1
1	Principles of Community Services*	N1302542	COMMSERV	1
1	Professional Communications*	13009900	PROFCOMM	.5
1	Dollars and Sense*	13024300	DOLLARSE	.5
2	Human Growth and Development*	13014300	HUGRDEV	1
2	Child Development*	13024700	CHILDDEV	1
2	Child Development Associate Foundations*	13024710	CDAFND	1
2	Lifetime Nutrition and Wellness*	13024500	LNURTWEL	.5
2	Interpersonal Studies*	13024400	INTERSTU	.5
2	Social and Community Services	N1302543	SOCCOM	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Family and Community Services*	13024900	FAMCOSRV	1
3	Counseling and Mental Health*	13024600	COUNSMH	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Human Services* *First Time Taken* *Second Time Taken*	13025000 13025010	PRACHUS1 PRACHUS2	2 2
4	Practicum in Human Services + Extended Practicum in Human Services* *First Time Taken* *Second Time Taken*	13025005 13025015	EXPRHUS1 EXPRHUS2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Health and Wellness

The Health and Wellness program of study focuses on occupational and educational opportunities associated with promoting physical, emotional, and mental health and wellness. This program of study incudes assisting patients in planning for their health and wellness, responding to crises, providing education or counseling, making referrals, and addressing barriers to accessing health and wellness services.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Human Services*	13024200	PRINHUSR	1
1	Principles of Community Services*	N1302542	COMMSERV	1
1	Dollars and Sense*	13024300	DOLLARSE	.5
2	Human Growth and Development*	13014300	HUGRDEV	1
2	Child Development*	13024700	CHILDDEV	1
2	Lifetime Nutrition and Wellness*	13024500	LNURTWEL	.5
2	Interpersonal Studies*	13024400	INTERSTU	.5
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Applied Nutrition and Dietetics*	N1302541	APPNUTR	1
3	Family and Community Services*	13024900	FAMCOSRV	1
3	Counseling and Mental Health*	13024600	COUNSMH	1
4	Food Science*	13023000	FOODSCI	1
4	Practicum in Human Services* *First Time Taken* *Second Time Taken*	 13025000 13025010	 PRACHUS1 PRACHUS2	 2 2
4	Practicum in Human Services + Extended Practicum in Human Services* *First Time Taken* *Second Time Taken*	 13025005 13025015	 EXPRHUS1 EXPRHUS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Information Technology

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Programs of Study

- Cybersecurity
- Information Technology Support and Services
- Networking Systems
- Programming and Software Development
- Web Development

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter M)

§127.671 Principles of Information Technology (One Credit), Adopted 2015
§127.672 Fundamentals of Computer Science (One Credit), Adopted 2022
§127.673 Computer Science I (One Credit), Adopted 2022
§127.674 Computer Science II (One Credit), Adopted 2022
§127.675 Computer Science III (One Credit), Adopted 2022
§127.676 Foundations of Cybersecurity (One Credit), Adopted 2022
§127.677 Digital Forensics (One Credit), Adopted 2022
§127.678 Cybersecurity Capstone (One Credit), Adopted 2022
§127.679 Computer Maintenance (One Credit), Adopted 2015
§127.680 Computer Maintenance Lab (One Credit), Adopted 2015
§127.681 Networking (One Credit), Adopted 2015
§127.682 Networking Lab (One Credit), Adopted 2015
§127.683 Digital Media (One Credit), Adopted 2015
§127.684 Web Communications (One-Half Credit)
§127.685 Web Design (One Credit)
§127.686 Discrete Mathematics for Computer Science (One Credit), Beginning with School Year 2012-2013
§127.687 Game Programming and Design (One Credit)
§127.688 Mobile Application Development (One Credit)
§127.689 Advanced Cloud Computing (One Credit), Adopted 2025
§127.690 Foundations of User Experience (One Credit), Adopted 2025
§127.691 Advanced User Experience Design (One Credit), Adopted 2025
§127.695 Information Technology Troubleshooting (One Credit), Adopted 2025
§127.696 Engineering Applications of Computer Science Principles (One Credit), Adopted 2025
§127.697 Geographic Information Systems (One Credit), Adopted 2025
§127.698 Raster-Based Geographic Information Systems (One Credit), Adopted 2025
§127.699 Spatial Technology and Remote Sensing (One Credit), Adopted 2025
§127.720 Independent Study in Technology Applications (One Credit), Beginning with School Year 2012-2013
§127.721 Independent Study in Evolving/Emerging Technologies (One Credit)
§127.722 Advanced Placement (AP) Computer Science A (Two Credits)
§127.723 Advanced Placement (AP) Computer Science Principles (One Credit)
§127.724 International Baccalaureate (IB) Computer Science Standard Level (Two Credits)
§127.725 International Baccalaureate (IB) Computer Science Higher Level (Two Credits)
§127.726 International Baccalaureate (IB) Digital Society Standard Level (Two Credits)
§127.727 International Baccalaureate (IB) Digital Society Higher Level (Two Credits)
§127.735 Practicum in Information Technology (Two Credits), Adopted 2015
§127.736 Extended Practicum in Information Technology (One Credit), Adopted 2015
§127.737 Computer Technician Practicum (Two Credits), Adopted 2015
§127.738 Extended Computer Technician Practicum (One Credit), Adopted 2015

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Innovative Courses

- Internetworking Technologies I (Cisco)
- Internetworking Technologies II (Cisco)
- Introduction to C# Programming Applications

Cybersecurity

The Cybersecurity program of study focuses on occupational and educational opportunities associated with planning, implementing, upgrading, or monitoring security measures for the protection of computer networks and information. This program of study includes responding to computer security breaches and viruses and administering network security measures.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Information Technology*	13027200	PRINIT	1
1	Fundamentals of Computer Science*	03580140	TAFCS	1
1	Foundations of Cybersecurity	03580850	TAFCYB	1
2	Computer Science I*	03580200	TACS1	1
2	Internetworking Technologies I (Cisco)*	N1302803	INTNET1	1
2	Computer Maintenance*	13027300	COMPMTN	1
2	Computer Maintenance + Computer Maintenance Lab*	13027310	COMMTLAB	2
2	Advanced Placement (AP) Computer Science Principles*	A3580300	APCSPRIN	1
3	Engineering Applications of Computer Science Principles	13027540	ENGRAPCS	1
3	Internetworking Technologies II (Cisco)*	N1302804	INTNET2	1
3	Advanced Cloud Computing*	13027520	ADVCLOUD	1
3	Digital Forensics	03580360	TADGFR	1
3	Discrete Mathematics for Computer Science*	03580370	TADISMA	1
3	Networking*	13027400	NETWRK	1
3	Networking + Networking Lab*	13027410	NETWRLAB	2
3	Advanced Placement (AP) Computer Science A* *AP Computer Science A - MATH* *AP Computer Science A - LOTE*	 A3580110 A3580120	 APTACSAM APTACSAL	 1 1
3	International Baccalaureate (IB) Computer Science Standard Level*	I3580200	IBTACSSL	2
3	International Baccalaureate (IB) Computer Science Higher Level* *IB Computer Science Higher Level - MATH* *IB Computer Science Higher Level - LOTE*	 I3580310 I3580320	 IBTACSHLM IBTACSHLL	 1 1
4	Independent Study in Technology Applications* *First Time Taken*	03580900	TAIND1	1
4	Independent Study in Evolving/Emerging Technologies* *First Time Taken*	03581500	TAINDET1	1
4	Cybersecurity Capstone	03580855	TACYBCAP	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Information Technology* *First Time Taken* *Second Time Taken*	 13028000 13028010	 PRACIT1 PRACIT2	 2 2
4	Practicum in Information Technology + Extended Practicum in Information Technology* *First Time Taken* *Second Time Taken*	 13028005 13028015	 EXPRIT1 EXPRIT2	 3 3
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Level	Course Title	Course Code	Course Abbreviation	Credits
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	 12756080 12756090	 PRCENGR1 PRCENGR2	 2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	 12756085 12756095	 EXPRENG1 EXPRENG2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Information Technology Support and Services

The Information Technology Support and Services program of study focuses on occupational and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study includes analyzing user requirements, automating or improving existing systems, and reviewing computer system capabilities. It also includes research, design, and testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Information Technology*	13027200	PRINIT	1
1	Fundamentals of Computer Science*	03580140	TAFCS	1
2	Internetworking Technologies I (Cisco)*	N1302803	INTNET1	1
2	Geographic Information Systems (GIS)*	13027545	GISYS	1
2	Raster-Based Geographic Information Systems*	13027550	RASGIS	1
2	Computer Maintenance*	13027300	COMPMTN	1
2	Computer Maintenance + Computer Maintenance Lab*	13027310	COMMTLAB	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Internetworking Technologies II (Cisco)*	N1302804	INTNET2	1
3	Spatial Technology and Remote Sensing*	13027555	SPTECHRS	1
3	Advanced Cloud Computing*	13027520	ADVCLOUD	1
3	Information Technology Troubleshooting	13027535	INFOTRBL	1
4	Independent Study in Technology Applications* *First Time Taken*	03580900	TAIND1	1
4	Independent Study in Evolving/Emerging Technologies* *First Time Taken*	03581500	TAINDET1	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Computer Technician Practicum *First Time Taken* *Second Time Taken*	13027500 13027510	COMPT1 COMPT2	2 2
4	Computer Technician Practicum + Extended Computer Technician Practicum *First Time Taken* *Second Time Taken*	13027505 13027515	EXCOMPT1 EXCOMPT2	3 3
4	Practicum in Information Technology* *First Time Taken* *Second Time Taken*	13028000 13028010	PRACIT1 PRACIT2	2 2
4	Practicum in Information Technology + Extended Practicum in Information Technology* *First Time Taken* *Second Time Taken*	13028005 13028015	EXPRIT1 EXPRIT2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
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Level	Course Title	Course Code	Course Abbreviation	Credits
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Networking Systems

The Networking Systems program of study focuses on occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study includes analysis of data processing challenges to implementing and improving computer systems.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Information Technology*	13027200	PRINIT	1
1	Fundamentals of Computer Science*	03580140	TAFCS	1
2	Computer Science I*	03580200	TACS1	1
2	Internetworking Technologies I (Cisco)*	N1302803	INTNET1	1
2	Computer Maintenance*	13027300	COMPMTN	1
2	Computer Maintenance + Computer Maintenance Lab*	13027310	COMMTLAB	2
2	Advanced Placement (AP) Computer Science Principles*	A3580300	APCSPRIN	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Internetworking Technologies II (Cisco)*	N1302804	INTNET2	1
3	Advanced Cloud Computing*	13027520	ADVCLOUD	1
3	Networking*	13027400	NETWRK	1
3	Networking + Networking Lab*	13027410	NETWRLAB	2
4	Independent Study in Technology Applications* *First Time Taken*	03580900	TAIND1	1
4	Independent Study in Evolving/Emerging Technologies* *First Time Taken*	03581500	TAINDET1	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Information Technology* *First Time Taken* *Second Time Taken*	13028000 13028010	PRACIT1 PRACIT2	2 2
4	Practicum in Information Technology + Extended Practicum in Information Technology* *First Time Taken* *Second Time Taken*	13028005 13028015	EXPRIT1 EXPRIT2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Programming and Software Development

The Programming and Software Development program of study focuses on occupational and educational opportunities associated with researching, designing, developing, testing, and operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study includes creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Information Technology*	13027200	PRINIT	1
1	Fundamentals of Computer Science*	03580140	TAFCS	1
2	Computer Science I*	03580200	TACS1	1
2	Game Programming and Design*	03580380	TAGMPD	1
2	Advanced Placement (AP) Computer Science Principles*	A3580300	APCSPRIN	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Introduction to C# Programming Applications	N1302812	INTCPA	1
3	Computer Science II	03580300	TACS2	1
3	Advanced Cloud Computing*	13027520	ADVCLOUD	1
3	Discrete Mathematics for Computer Science*	03580370	TADISMA	1
3	Mobile Application Development*	03580390	TAMBAD	1
3	Advanced Placement (AP) Computer Science A* *AP Computer Science A - MATH* *AP Computer Science A - LOTE*	 A3580110 A3580120	 APTACSAM APTACSAL	 1 1
3	International Baccalaureate (IB) Computer Science Standard Level*	I3580200	IBTACSSL	2
3	International Baccalaureate (IB) Computer Science Higher Level* *IB Computer Science Higher Level - MATH* *IB Computer Science Higher Level - LOTE*	 I3580310 I3580320	 IBTACSHLM IBTACSHLL	 1 1
4	Computer Science III	03580350	TACS3	1
4	Independent Study in Technology Applications* *First Time Taken*	 03580900	 TAIND1	 1
4	Independent Study in Evolving/Emerging Technologies* *First Time Taken*	 03581500	 TAINDET1	 1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	 12701101	 CTEPBC1	 1
4	Practicum in Audio/Video Production* *First Time Taken* *Second Time Taken*	 13008700 13008710	 PRACAVP1 PRACAVP2	 2 2
4	Practicum in Audio/Video Production + Extended Practicum in Audio/Video Production* *First Time Taken* *Second Time Taken*	 13008705 13008715	 EXPRAVP1 EXPRAVP2	 3 3
4	Practicum in Information Technology* *First Time Taken* *Second Time Taken*	 13028000 13028010	 PRACIT1 PRACIT2	 2 2
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Level	Course Title	Course Code	Course Abbreviation	Credits
4	Practicum in Information Technology + Extended Practicum in Information Technology* *First Time Taken* *Second Time Taken*	 13028005 13028015	 EXPRIT1 EXPRIT2	 3 3
4	Practicum in Engineering* *First Time Taken* *Second Time Taken*	 12756080 12756090	 PRCENGR1 PRCENGR2	 2 2
4	Practicum in Engineering + Extended Practicum in Engineering* *First Time Taken* *Second Time Taken*	 12756085 12756095	 EXPRENG1 EXPRENG2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

Web Development

The Web Development program of study focuses on occupational and educational opportunities associated with designing, creating, and modifying websites. It includes integration of websites with other computer applications and conversion of written, graphic, audio, and video components to compatible web formats using software designed to facilitate the creation of web and multimedia content.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Information Technology*	13027200	PRINIT	1
1	Fundamentals of Computer Science*	03580140	TAFCS	1
1	Digital Media*	13027800	DIMEDIA	1
1	Web Communications*	03580810	TAWEBCM	.5
2	Computer Science I*	03580200	TACS1	1
2	Foundations of User Experience*	13027525	FNDUX	1
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Web Design	03580820	TAWEBDN	1
3	Web Game Development*	03580830	TAWEBGD	1
3	Advanced User Experience Design*	13027530	ADVUXDES	1
4	Independent Study in Technology Applications* *First Time Taken*	03580900	TAIND1	1
4	Independent Study in Evolving/Emerging Technologies* *First Time Taken*	03581500	TAINDET1	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Information Technology* *First Time Taken* *Second Time Taken*	13028000 13028010	PRACIT1 PRACIT2	2 2
4	Practicum in Information Technology + Extended Practicum in Information Technology* *First Time Taken* *Second Time Taken*	13028005 13028015	EXPRIT1 EXPRIT2	3 3
4	Practicum in Entrepreneurship* *First Time Taken*	13011111	PRACENT1	2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	13011121	EXPRACENT1	3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Law and Public Service

The Law and Public Service career cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. This career cluster includes occupations ranging from all aspects of the military, police officer and firefighter to political scientist and lawyer.

Programs of Study

- Fire Science
- Government and Public Administration
- Law Enforcement
- Legal Studies
- Junior Reserve Officers' Training Corps (JROTC)

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter N)

§127.746 Principles of Law, Public Safety, Corrections, and Security (One Credit), Adopted 2015
§127.747 Correctional Services (One Credit), Adopted 2015
§127.748 Firefighter I (Two Credits), Adopted 2015
§127.749 Firefighter II (Three Credits), Adopted 2015
§127.750 Law Enforcement I (One Credit), Adopted 2015
§127.751 Law Enforcement II (One Credit), Adopted 2015
§127.758 Criminal Investigation (One Credit), Adopted 2015
§127.759 Court Systems and Practices (One Credit), Adopted 2015
§127.760 Federal Law Enforcement and Protective Services (One Credit), Adopted 2015
§127.761 Principles of Government and Public Administration (One Credit), Adopted 2015
§127.762 Political Science I (One Credit), Adopted 2015
§127.763 Political Science II (One Credit), Adopted 2015
§127.764 Foreign Service and Diplomacy (One Credit), Adopted 2015
§127.765 Planning and Governance (One Credit), Adopted 2015
§127.766 National Security (One Credit), Adopted 2015
§127.767 Public Management and Administration (One Credit), Adopted 2015
§127.768 Revenue, Taxation, and Regulation (One Credit), Adopted 2015
§127.769 Forensic Science (One Credit), Adopted 2021
§127.773 Legal Research and Writing (One Credit), Adopted 2025
§127.800 Practicum in Law, Public Safety, Corrections, and Security (Two Credits), Adopted 2015
§127.801 Extended Practicum in Law, Public Safety, Corrections, and Security (One Credit), Adopted 2015
§127.802 Practicum in Local, State, and Federal Government (Two Credits), Adopted 2015
§127.803 Extended Practicum in Local, State, and Federal Government (One Credit), Adopted 2015

Innovation Courses

- Advanced Legal Skills and Professions
- Dimensions of Diplomacy
- Disaster Response
- Emergency Medical Technician–Basic
- Forensic Psychology
- Foundations of Court Reporting

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Fire Science

The Fire Science program of study focuses on occupational and educational opportunities associated with fire prevention, protection, and firefighting. This program of study includes firefighter safety, building codes, and the necessary physical skills to perform rescues. Students will learn about preparedness, basic fire suppression techniques, basic arson investigation, hazardous material management, and educating the public about fire safety.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Law, Public Safety, Corrections, and Security*	13029200	PRINLPCS	1
2	Disaster Response*	N1303011	DISRESP	1
3	Firefighter I	13029900	FIRE1	2
3	National Security	13018800	NATLSEC	1
3	Emergency Medical Technician–Basic*	N1303015	EMTB	2
3	Anatomy and Physiology*	13020600	ANATPHYS	1
3	Counseling and Mental Health*	13024600	COUNSMH	1
4	Firefighter II	13030000	FIRE2	3
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Law, Public Safety, Corrections, and Security* *First Time Taken* *Second Time Taken*	13030100 13030110	PRACLPS1 PRACLPS2	2 2
4	Practicum in Law, Public Safety, Corrections, and Security + Extended Practicum in Law, Public Safety, Corrections, and Security* *First Time Taken* *Second Time Taken*	13030105 13030115	EXPRLPS1 EXPRLPS2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

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Government and Public Administration

The Government and Public Administration program of study focuses on occupational and educational opportunities associated with examining, evaluating, and investigating compliance with laws and regulations. This program of study includes planning and governance, analysis of revenue and taxation, and processes for communicating with the public.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Government and Public Administration	13018200	PRINGPA	1
1	Principles of Law, Public Safety, Corrections, and Security*	13029200	PRINLPCS	1
2	Political Science I*	13018300	POLISCI1	1
2	Federal Law Enforcement and Protective Services*	13029800	FEDLEPS	1
3	Political Science II*	13018400	POLISCI2	1
3	Planning and Governance	13018700	PLANGOV	1
3	Dimensions of Diplomacy	N1301820	DIDIPL	1
4	Revenue, Taxation, and Regulation	13018500	REVTAXRE	1
4	Public Management and Administration	13018600	PUBMANAD	1
4	Practicum in Local, State, and Federal Government *First Time Taken* *Second Time Taken*	 13019000 13019010	 PRACLSF1 PRACLSF2	 2 2
4	Practicum in Local, State, and Federal Government + Extended Practicum in Local, State, and Federal Government *First Time Taken* *Second Time Taken*	 13019005 13019015	 EXPRLSF1 EXPRLSF2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Law Enforcement

The Law Enforcement program of study focuses on occupational and educational opportunities associated with the development and enforcement of laws by various branches of law enforcement. This program of study includes the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Law, Public Safety, Corrections, and Security*	13029200	PRINLPCS	1
2	Law Enforcement I	13029300	LAWENF1	1
2	Criminal Investigation	13029550	CRINVEST	1
2	Federal Law Enforcement and Protective Services*	13029800	FEDLEPS	1
3	Law Enforcement II	13029400	LAWENF2	1
3	Correctional Services	13029700	CORRSRVS	1
3	Forensic Psychology	N1303012	FORENSPSY	1
3	Counseling and Mental Health*	13024600	COUNSMH	1
4	Forensic Science*	13029500	FORENSCI	1
4	Practicum in Law, Public Safety, Corrections, and Security* *First Time Taken* *Second Time Taken*	 13030100 13030110	 PRACLPS1 PRACLPS2	 2 2
4	Practicum in Law, Public Safety, Corrections, and Security + Extended Practicum in Law, Public Safety, Corrections, and Security* *First Time Taken* *Second Time Taken*	 13030105 13030115	 EXPRLPS1 EXPRLPS2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Legal Studies

The Legal Studies program of study focuses on topics such as legal research, legal writing, rules of procedure, case management, law office technology, and legal ethics. Areas of the legal system studied include aspects of family law, criminal law, and contract law.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Law, Public Safety, Corrections, and Security*	13029200	PRINLPCS	1
2	Political Science I*	13018300	POLISCI1	1
2	Business Law*	13011700	BUSLAW	1
2	Court Systems and Practices	13029600	COURTSP	1
2	Foundations of Court Reporting	N1303017	FDCRTREP	1
3	Political Science II*	13018400	POLISCI2	1
3	Legal Research and Writing	13018610	LEGALRW	1
3	Advanced Legal Skills and Professions	N1303016	ADVLSP	1
4	Forensic Science*	13029500	FORENSCI	1
4	Career and Technical Education Project-Based Capstone* *First Time Taken*	12701101	CTEPBC1	1
4	Practicum in Law, Public Safety, Corrections, and Security* *First Time Taken* *Second Time Taken*	13030100 13030110	PRACLPS1 PRACLPS2	2 2
4	Practicum in Law, Public Safety, Corrections, and Security + Extended Practicum in Law, Public Safety, Corrections, and Security* *First Time Taken* *Second Time Taken*	13030105 13030115	EXPRLPS1 EXPRLPS2	3 3
4	Career Preparation for Programs of Study* *First Time Taken*	12701121	CPPS1	2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	12701141	EXCPPS1	3

**Courses in multiple programs of study*

Junior Reserve Officers' Training Corps

The JROTC program of study emphasizes leadership development, civic responsibility, and personal growth through a structured military framework. Students explore the history, organization, and purpose of military service at local, state, and federal levels, while gaining a foundational understanding of the U.S. Constitution and the role it plays in shaping civic life. The courses foster discipline, teamwork, and decision-making, encouraging students to become engaged citizens and future leaders in their communities.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Junior Reserve Officers' Training Corps (JROTC) I • Army • Air Force • Navy • Marine Corps • Space Force	03160100	JROTC1	1
2	Junior Reserve Officers' Training Corps (JROTC) II • Army • Air Force • Navy • Marine Corps • Space Force	03160200	JROTC2	1
3	Junior Reserve Officers' Training Corps (JROTC) III • Army • Air Force • Navy • Marine Corps • Space Force	03160300	JROTC3	1
4	Junior Reserve Officers' Training Corps (JROTC) IV • Army • Air Force • Navy • Marine Corps • Space Force	03160400	JROTC4	1

Note: JROTC I-IV may be used to satisfy one PE credit. PES00004 – PE Substitution, will earn 1.28 CTE weighted funding.

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Manufacturing

The Manufacturing career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and process engineering. This career cluster includes occupations ranging from welder and machinist to industrial engineering technician and semi-conductor processing technician.

Programs of Study

- Advanced Manufacturing and Industrial Technology (Regional Program of Study)
- Electronics Technology (Regional Program of Study)
- Industrial Maintenance
- Manufacturing Technology
- Robotics and Automation Technology
- Welding

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter O)

§127.810 Principles of Manufacturing (One Credit), Adopted 2015
§127.811 Diversified Manufacturing I (One Credit), Adopted 2015
§127.812 Diversified Manufacturing II (One Credit), Adopted 2015
§127.813 Manufacturing Engineering Technology I (One Credit), Adopted 2015
§127.814 Manufacturing Engineering Technology II (One Credit), Adopted 2015
§127.815 Metal Fabrication and Machining I (Two Credits), Adopted 2015
§127.816 Metal Fabrication and Machining II (Two Credits), Adopted 2015
§127.817 Precision Metal Manufacturing I (Two Credits), Adopted 2015
§127.818 Precision Metal Manufacturing II (Two Credits), Adopted 2015
§127.819 Precision Metal Manufacturing II Lab (One Credit), Adopted 2015
§127.820 Introduction to Welding (One Credit), Adopted 2015
§127.821 Welding I (Two Credits), Adopted 2015
§127.822 Welding II (Two Credits), Adopted 2015
§127.823 Welding II Lab (One Credit), Adopted 2015
§127.865 Practicum in Manufacturing (Two Credits), Adopted 2015
§127.866 Extended Practicum in Manufacturing (One Credit), Adopted 2015

Innovative Courses

- Basic Fluid Power
- Blueprint Reading for Manufacturing Applications
- Computer Integrated Manufacturing (PLTW)
- Introduction to Film Interpretation of Weldments
- Occupational Safety and Environmental Technology I
- Programmable Logic Controller I
- Programmable Logic Controller II

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Advanced Manufacturing and Industrial Technology (Regional Program of Study)

Approved in ESC Region 7

****The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.***

The Advanced Manufacturing and Industrial Technology regional program of study focuses on occupational and educational opportunities associated with the development of electrical, mechanical, and machining components of manufacturing processing, automated systems, blueprint and sketching reading, and welding. It includes exploration of a variety of tools including, Computer Numerical Controlled (CNC) machines, hydraulics, and programmable logic controllers for students to learn to fabricate and maintain to processes and move through manufacturing production.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Manufacturing*	13032200	PRINMAN	1
1	Blueprint Reading for Manufacturing Applications*	N1303684	BRFMA	1
2	Agricultural Mechanics and Metal Technologies*	13002200	AGMECHMT	1
2	Agricultural Mechanics and Metal Technologies + Agricultural Laboratory and Field Experience*	13002210	AGMECMTLAB	2
2	Welding I*	13032300	WELD1	2
2	Diversified Manufacturing I*	13032650	DIMANU1	1
3	Digital Electronics*	13037600	DIGELC	1
3	Solid State Electronics*	13036900	SOSTELEC	1
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033000 13033010	 PRACMAN1 PRACMAN2	 2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033005 13033015	 EXPRMAN1 EXPRMAN2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Electronics Technology (Regional Program of Study)

Approved in ESC Regions 6, 10, 11, 12, and 13

****The list of approved ESC regions is updated every school year. Be sure to check the CTE regional program of study website for updates.***

The Electronics Technology regional program of study focuses on occupational and education opportunities associated with the development of engineered products, voltage installation and testing, electrical schematics, semiconductors, millwrights, avionics, and electrical repairers. It includes exploration of a variety of electrical uses throughout residential and commercial applications such as chip making troubleshooting electrical lines from audio video production to commercial buildings. This program of study addresses how to troubleshoot, create, repair, and read electrical blueprints, technical drafting, and the applied mathematics of electricity throughout industry.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Manufacturing*	13032200	PRINMAN	1
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Blueprint Reading for Manufacturing Applications*	N1303684	BRFMA	1
2	AC/DC Electronics*	13036800	ACDCELEC	1
3	Digital Electronics*	13037600	DIGELC	1
3	Solid State Electronics*	13036900	SOSTELEC	1
4	Applied Mathematics for Technical Professionals*	12701410	APMATHTP	1
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033000 13033010	 PRACMAN1 PRACMAN2	 2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033005 13033015	 EXPRMAN1 EXPRMAN2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Industrial Maintenance

The Industrial Maintenance program of study focuses on occupational and educational opportunities associated with maintaining and repairing manufacturing equipment and facilities. This program of study includes exploration of facility systems including electrical, welding, hydraulics, plumbing, heating, and air conditioning.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Manufacturing*	13032200	PRINMAN	1
1	Introduction to Welding*	13032250	INTRWELD	1
1	Introduction to Small Engine Technology	13040000	INTSET	1
2	Construction Technology I*	13005100	CONTECH1	2
2	Electrical Technology I*	13005600	ELECTEC1	1
2	Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I*	13005800	HVACREF1	1
3	Basic Fluid Power	N1303683	BASICFP	1
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033000 13033010	 PRACMAN1 PRACMAN2	 2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033005 13033015	 EXPRMAN1 EXPRMAN2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Manufacturing Technology

The Manufacturing Technology program of study focuses on occupational and educational opportunities associated with the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. It includes exploration of a variety of machine tools that are used to produce precision parts and instruments. This program of study addresses how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Manufacturing*	13032200	PRINMAN	1
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
1	Blueprint Reading for Manufacturing Applications	N1303684	BRFMA	1
2	Diversified Manufacturing I	13032650	DIMANU1	1
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
2	Metal Fabrication and Machining I	13032700	MTFBMCH1	2
2	Entrepreneurship I	13011101	ENTPR1	1
3	Diversified Manufacturing II	13032660	DIMANU2	1
3	Metal Fabrication and Machining II	13032800	MTFBMCH2	2
3	Precision Metal Manufacturing I	13032500	PREMMAN1	2
3	Computer Integrated Manufacturing (PLTW)	N1303748	CIM	1
4	Precision Metal Manufacturing II	13032600	PREMMAN2	2
4	Precision Metal Manufacturing II + Precision Metal Manufacturing II Lab	13032610	PRMMLAB2	3
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033000 13033010	 PRACMAN1 PRACMAN2	 2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033005 13033015	 EXPRMAN1 EXPRMAN2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Robotics and Automation Technology

The Robotics and Automation Technology program of study focuses on occupational and educational opportunities associated with the assembly, operation, maintenance, and repair of electromechanical equipment or devices. This program of study includes exploration of a variety of mechanical fields, including robotics, refinery and pipeline systems, deep ocean exploration, and hazardous waste removal.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Manufacturing*	13032200	PRINMAN	1
1	Principles of Applied Engineering*	13036200	PRAPPENG	1
2	Robotics I*	13037000	ROBOTIC1	1
2	Manufacturing Engineering Technology I*	13032900	MANENGT1	1
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
2	Programmable Logic Controller I*	N1303689	PROLGCNT1	1
3	Robotics II*	13037050	ROBOTIC2	1
3	Manufacturing Engineering Technology II	13032950	MANENGT2	1
3	Programmable Logic Controller II*	N1303690	PROLGCNT2	1
3	Engineering Design and Presentation*	13036500	ENGRDP	1
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033000 13033010	 PRACMAN1 PRACMAN2	 2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033005 13033015	 EXPRMAN1 EXPRMAN2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Welding

The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines and how to use hand-welding or flame-cutting equipment.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Manufacturing*	13032200	PRINMAN	1
1	Introduction to Welding*	13032250	INTRWELD	1
2	Introduction to Film Interpretation of Weldments	N1303687	INTFMWLD	1
2	Welding I*	13032300	WELD1	2
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
2	Entrepreneurship I	13011101	ENTPR1	1
3	Welding II	13032400	WELD2	2
3	Welding II + Welding II Lab	13032410	WELDLAB2	3
4	Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033000 13033010	 PRACMAN1 PRACMAN2	 2 2
4	Practicum in Manufacturing + Extended Practicum in Manufacturing* *First Time Taken* *Second Time Taken*	 13033005 13033015	 EXPRMAN1 EXPRMAN2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Transportation, Distribution, and Logistics

The Transportation, Distribution, and Logistics career cluster focuses on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes transportation infrastructure planning and management, logistics services, and mobile equipment and facility maintenance. This career cluster includes occupations ranging from automotive mechanic, avionics technician, and automotive entrepreneur to pilots and logistics planning professionals.

Programs of Study

- Automotive and Collision Repair
- Aviation Maintenance
- Aviation (Pilots)
- Diesel and Heavy Equipment Maintenance and Commercial Driver
- Distribution, Logistics, and Warehousing
- Maritime (Regional program of study)

Courses Listed in Texas Administrative Code (Title 19, Chapter 127, Subchapter P)

§127.871 Principles of Transportation Systems (One Credit), Adopted 2015
§127.872 Principles of Distribution and Logistics (One Credit), Adopted 2015
§127.873 Introduction to Transportation Technology (One-Half Credit), Adopted 2015
§127.874 Introduction to Small Engine Technology (One Credit), Adopted 2015
§127.875 Small Engine Technology (Two Credits), Adopted 2015
§127.876 Automotive Basics (One Credit), Adopted 2015
§127.877 Automotive Technology I: Maintenance and Light Repair (Two Credits), Adopted 2015
§127.878 Automotive Technology II: Automotive Service (Two Credits), Adopted 2015
§127.879 Basic Collision Repair and Refinishing (One Credit), Adopted 2015
§127.880 Collision Repair (Two Credits), Adopted 2015
§127.881 Paint and Refinishing (Two Credits), Adopted 2015
§127.882 Diesel Equipment Technology I (Two Credits), Adopted 2015
§127.883 Diesel Equipment Technology II (Two Credits), Adopted 2015
§127.884 Energy and Power of Transportation Systems (One Credit), Adopted 2015
§127.885 Management of Transportation Systems (One Credit), Adopted 2015
§127.886 Distribution and Logistics (One Credit), Adopted 2015
§127.887 Introduction to Aircraft Technology (One Credit), Adopted 2024
§127.888 Aircraft Airframe Technology (Two Credits), Adopted 2024
§127.889 Aircraft Powerplant Technology (Two Credits), Adopted 2024
§127.890 Aircraft Maintenance Technology (One Credit), Adopted 2024
§127.920 Advanced Transportation Systems Laboratory (One Credit), Adopted 2024
§127.921 Practicum in Transportation Systems (Two Credits), Adopted 2015
§127.922 Extended Practicum in Transportation Systems (One Credit), Adopted 2015.
§127.923 Practicum in Distribution and Logistics (Two Credits), Adopted 2015
§127.924 Extended Practicum in Distribution and Logistics (One Credit), Adopted 2015.

Innovative Courses

- Advanced Shipboard Engineering
- Aviation Ground School
- Concepts of Distribution and Logistics Technology
- Introduction to Aerospace and Aviation
- Introduction to Shipboard Engineering
- Introduction to Unmanned Aerial Vehicles (UAV)
- Logistics Engineering
- Maritime Science I
- Maritime Science II
- Principles of Maritime Science

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Automotive and Collision Repair

The Automotive and Collision Repair program of study focuses on the occupational and educational opportunities associated with servicing, repairing, and refinishing various types of vehicles. This program of study includes diagnosing and servicing vehicles and learning about processes, technologies, and materials used in reconstructing vehicles.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Transportation Systems*	13039250	PRINTRSY	1
1	Basic Collision Repair and Refinishing	13039750	BASCOLRR	1
1	Introduction to Small Engine Technology*	13040000	INTSET	1
2	Introduction to Transportation Technology*	13039270	INTRTEC	.5
2	Small Engine Technology	13040100	SETEC	2
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
2	Automotive Basics	13039550	AUTOBASC	1
2	Collision Repair	13039800	COLLISR	2
2	Collision Repair + Advanced Transportation Systems Laboratory	13039810	COLLRLAB	3
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Energy and Power of Transportation Systems	13039300	EPTSYS	1
3	Automotive Technology I: Maintenance and Light Repair	13039600	AUTOTEC1	2
3	Paint and Refinishing	13039900	PAINTREF	2
3	Paint and Refinishing + Advanced Transportation Systems Laboratory	13039910	PTREFLAB	3
4	Automotive Technology II: Automotive Service	13039700	AUTOTEC2	2
4	Automotive Technology II: Automotive Service + Advanced Transportation Systems Laboratory	13039710	AUTOLAB2	3
4	Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040450 13040460	 PRACTRS1 PRACTRS2	 2 2
4	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040455 13040465	 EXPRTRS1 EXPRTRS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Aviation Maintenance

The Aviation Maintenance program of study focuses on occupational and educational opportunities associated with maintenance and repair of airframe structures, systems, and components of an aircraft. This program of study includes exploration of aircraft maintenance procedures, air navigational aids, air traffic controls, and communication equipment to ensure compliance with federal safety regulations.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Transportation Systems*	13039250	PRINTRSY	1
	Introduction to Aircraft Technology*	13039350	INAIRTEC	1
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
2	Aircraft Maintenance Technology	13039360	AIRMTECH	1
2	Aircraft Maintenance Technology + Advanced Transportation Systems Laboratory	13039370	AIRMTLAB	2
3	Aircraft Airframe Technology	13039400	AIRAFTEC	2
3	Aircraft Airframe Technology + Advanced Transportation Systems Laboratory	13039410	AIRAFLAB	3
4	Aircraft Powerplant Technology	13039500	AIRPPTEC	2
4	Aircraft Powerplant Technology + Advanced Transportation Systems Laboratory	13039510	AIRPPLAB	3
4	Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040450 13040460	 PRACTRS1 PRACTRS2	 2 2
4	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040455 13040465	 EXPRTRS1 EXPRTRS2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

Aviation (Pilots)

The Pilots and Aviation Operations program of study focuses on occupational and educational opportunities associated with the principles and science of flight. This program of study includes the exploration and understanding of aviation engineering, air navigational aids, air traffic controls, and communications equipment to ensure conformance with federal safety regulations.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Transportation Systems*	13039250	PRINTRSY	1
1	Introduction to Aircraft Technology*	13039350	INAIRTEC	1
1	Introduction to Aerospace and Aviation*	N1304672	INTAEAVI	1
2	Introduction to Unmanned Aerial Vehicles (UAV)*	N1304670	PRINUAV	1
2	Aerospace Design I*	12756040	AERODES1	1
3	Aviation Ground School	N1304675	AVIAGS	1
3	Aerospace Design II*	12756045	AERODES2	2
4	Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040450 13040460	 PRACTRS1 PRACTRS2	 2 2
4	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040455 13040465	 EXPRTRS1 EXPRTRS2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3
4	Scientific Research and Design*	13037200	SCIRD	1

**Courses in multiple programs of study*

Diesel and Heavy Equipment Maintenance and Commercial Driver

The Diesel, Heavy Equipment Maintenance, and Commercial Drivers program of study focuses on occupational and educational opportunities associated with the function, operations, diagnosis, and service of diesel and heavy equipment systems. This program of study includes driving, inspecting, diagnosing, and repairing off-highway and on-highway vehicles and equipment.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Transportation Systems*	13039250	PRINTRSY	1
1	Introduction to Small Engine Technology*	13040000	INTSET	1
2	Introduction to Transportation Technology*	13039270	INTRTEC	.5
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
2	Diesel Equipment Technology I	13040150	DIEQTEC1	2
2	Entrepreneurship I*	13011101	ENTPR1	1
3	Diesel Equipment Technology II	13040160	DIEQTEC2	2
3	Diesel Equipment Technology II + Advanced Transportation Systems Laboratory	13040170	DIEQLAB2	3
4	Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040450 13040460	 PRACTRS1 PRACTRS2	 2 2
4	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040455 13040465	 EXPRTRS1 EXPRTRS2	 3 3
4	Practicum in Entrepreneurship* *First Time Taken*	 13011111	 PRACENT1	 2
4	Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* *First Time Taken*	 13011121	 EXPRACENT1	 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Distribution, Logistics, and Warehousing

The Distribution, Logistics, and Warehousing program of study focuses on educational and occupational opportunities associated with business planning and management aspects of distribution, logistics, and warehousing. This program of study includes exploration of the history, laws, regulations, and common practices used in the logistics of warehousing and distribution systems.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Transportation Systems*	13039250	PRINTRSY	1
1	Principles of Distribution and Logistics*	13039260	PRINDILG	1
2	Concepts of Distribution and Logistics Technology	N1303800	DISTLOG	1
2	Management of Transportation Systems	13040200	MNGTRSY	1
2	Raster-Based Geographic Information Systems*	13027550	RASGIS	1
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
3	Distribution and Logistics	13040300	DISTLGS	1
3	Logistics Engineering	N1303801	LOGENG	1
4	Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040450 13040460	 PRACTRS1 PRACTRS2	 2 2
4	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040455 13040465	 EXPRTRS1 EXPRTRS2	 3 3
4	Practicum in Distribution and Logistics* *First Time Taken* *Second Time Taken*	 13040470 13040480	 PRACDLG1 PRACDLG2	 2 2
4	Practicum in Distribution and Logistics + Extended Practicum in Distribution and Logistics* *First Time Taken* *Second Time Taken*	 13040475 13040485	 EXPRDLG1 EXPRDLG2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

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Maritime (Regional Program of Study)

Approved in ESC Regions 2, 4, and 5

***The list of approved ESC regions is updated every school year, be sure to check the CTE regional program of study website for updates.**

The Maritime regional program of study focuses on educational and occupational opportunities associated with the operation of water vessels. This program of study includes maintenance procedures and operation of maritime navigational aids, maritime traffic controls, and communications equipment to ensure conformance with federal safety regulations.

Level	Course Title	Course Code	Course Abbreviation	Credits
1	Principles of Maritime Science	N1304661	PRMSCI	1
1	Principles of Transportation Systems*	13039250	PRINTRSY	1
1	Principles of Distribution and Logistics*	13039260	PRINDILG	1
2	Introduction to Shipboard Engineering	N1304666	INTSE	1
2	Maritime Science I	N1304662	MSCI1	1
2	Occupational Safety and Environmental Technology I*	N1303680	OSET1	1
3	Maritime Science II	N1304663	MSCI2	1
3	Advanced Shipboard Engineering	N1304667	ADVSE	1
4	Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040450 13040460	 PRACTRS1 PRACTRS2	 2 2
4	Practicum in Transportation Systems + Extended Practicum in Transportation Systems* *First Time Taken* *Second Time Taken*	 13040455 13040465	 EXPRTRS1 EXPRTRS2	 3 3
4	Practicum in Distribution and Logistics* *First Time Taken* *Second Time Taken*	 13040470 13040480	 PRACDLG1 PRACDLG2	 2 2
4	Practicum in Distribution and Logistics + Extended Practicum in Distribution and Logistics* *First Time Taken* *Second Time Taken*	 13040475 13040485	 EXPRDLG1 EXPRDLG2	 3 3
4	Career Preparation for Programs of Study* *First Time Taken*	 12701121	 CPPS1	 2
4	Career Preparation for Programs of Study + Extended Career Preparation* *First Time Taken*	 12701141	 EXCPPS1	 3

**Courses in multiple programs of study*

CTE Courses in Alphabetical Order

3-D Modeling and Animation

Course Code: 03580510
Course Abbreviation: TA3DMA
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Art, Level I
Recommended Corequisite: None

3-D Modeling and Animation consists of computer images created in a virtual three-dimensional (3-D) environment. 3-D Modeling and Animation has applications in many careers, including criminal justice, crime scene, and legal applications; construction and architecture; engineering and design; and the movie and game industries. Students in this course will produce various 3-D models of real-world objects. The strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Note: This course satisfies the high school fine arts graduation requirement.
Program of Study: Graphic Design and Interactive Media

AC/DC Electronics

Course Code: 13036800
Course Abbreviation: ACDCELEC
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Applied Engineering
Recommended Corequisite: None

AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.
Programs of Study: Electrical Engineering, Electronics Technology (Regional), and Renewable Energy

Accounting I

Code: 13016600
Course Abbreviation: ACCOUNT1
Credit: 1
Level: 2
Prerequisite: None
Corequisites: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.
Program of Study: Accounting and Financial Services

Accounting II

Course Code: 13016700 **Course Abbreviation:** ACCOUNT2
Credit: 1 **Level**: 3
Prerequisite: Accounting I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.
Note: This course satisfies a high school mathematics graduation requirement.
Programs of Study: Accounting and Financial Services

Advanced Animal Science

Course Code: 13000700 **Course Abbreviation**: ADVANSCI
Credit: 1 **Level**: 4
Prerequisites: Biology and chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock and Poultry Production
Corequisite: None
Recommended Prerequisite: Veterinary Science
Recommended Corequisite: None

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of animal production, including canine, feline, bovine, equine, caprine, porcine, ovine, poultry, and lagomorpha production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. Students must meet the 40% laboratory and fieldwork requirement.
Note: This course satisfies a high school science graduation requirement.
Program of Study: Animal Science

Advanced Cloud Computing

Course Code: 13027520 **Course Abbreviation**: ADVCLOUD
Credit: 1 **Level**: 3
Prerequisite: At least one credit from a course in computer science, programming, software development, or networking systems
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Advanced Cloud Computing course is an exploration of cloud computing. In this course, students explore cloud computing services, applications, and use cases. Students study cloud computing best practices and learn how cloud computing helps users develop a global infrastructure to support use case at scale while also developing and using innovative technologies.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems, and Programming and Software Development

Advanced Culinary Arts

Course Code: 13022650
Course Abbreviation: ADCULART
Credits: 2
Level: 3
Prerequisite: Culinary Arts
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.
Program of Study: Culinary Arts

Advanced Energy and Natural Resource Technology

Course Code: 13001200
Course Abbreviation: ADENRT
Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources career cluster and Energy and Natural Resource Technology
Recommended Corequisite: None

Advanced Energy and Natural Resource Technology is designed to explore the interdependency of the public and natural resource systems related to energy production. In addition, renewable, sustainable, and environmentally friendly practices will be explored. To prepare for careers in the field of energy and natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to energy and natural resources and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Programs of Study: Environmental and Natural Resources

Advanced Energy and Natural Resource Technology + Agricultural Laboratory and Field Experience

Course Code: 13001210
Course Abbreviation: ADENRTLAB
Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources career cluster and Energy and Natural Resource Technology
Recommended Corequisite: None

Advanced Energy and Natural Resource Technology is designed to explore the interdependency of the public and natural resource systems related to energy production. In addition, renewable, sustainable, and environmentally friendly practices will be explored. To prepare for careers in the field of energy and natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to energy and natural resources and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Environmental and Natural Resources

Advanced Engineering Design and Presentation

Course Code: 13036600 **Course Abbreviation**: ADENGRDP
Credits: 2 **Level**: 4
Prerequisites: Algebra I, Geometry, and Engineering Design and Presentation
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Advanced Engineering Design and Presentation is a continuation of knowledge and skills learned in Engineering Design and Presentation. Students enrolled in this course demonstrate advanced knowledge and skills of a system design process as it applies to engineering fields and project management using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students expand on the use of a variety of computer hardware and software applications to complete assignments and projects. Through implementation of a system design process, students transfer advanced academic skills to component designs and engineering systems. Emphasis is placed on transdisciplinary and integrative approaches using skills from ideation, prototyping, and project management methods.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

Advanced Floral Design

Course Code: 13001850 **Course Abbreviation**: ADVFLOR
Credit: 1 **Level**: 4
Prerequisite: Floral Design
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

In Advanced Floral Design, students gain advanced knowledge and skills specifically needed to enter the workforce as floral designers or as freelance floral event designers, with an emphasis on specialty designs and occasion-specific designs and planning. Students are also prepared to enter postsecondary certification or degree programs in floral design or special events design. Students build on the knowledge base from Floral Design and are introduced to more advanced floral design concepts. In addition, students gain knowledge of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of an occasion or event.
Program of Study: Plant Science

Advanced Instrument and Electrical

Course Code: N1303901 **Course Abbreviation**: ADVINELEC
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Algebra I and Introduction to Instrumentation and Electrical
Recommended Corequisite: None

Advanced Instrument and Electrical is a course designed for students to develop and build on knowledge and skills from the Introduction to Instrumentation and Electrical course. The learning objectives prepare students with the skills essential for electrical and instrument work environment for construction and maintenance in the petrochemical and manufacturing industry. Students will learn the electrical theories and calculations needed to troubleshoot electrical circuits and the tools and instruments used to fix or replace the electrical components including switches, relays, capacitors, resistors, and motors. Students will also learn how to identify, fabricate, and replace tubing and piping used in refining and chemical processes.
Program of Study: Refining and Chemical Processes

Advanced Legal Skills and Professions

Course Code: N1303016
Course Abbreviation: ADVLSP
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections and Security, Court Systems and Practices, Business Law, Debate I, or Political Science I
Recommended Corequisite: None

Advanced Legal Systems and Professions provides students with a foundation to understand the basic mechanics of the U.S. legal system. Building on prior instruction in constitutional issues and the basics of American court systems, this course provides insight into the practical application of the law, as well as civil and criminal procedure, giving students a hands-on opportunity to experience a variety of legal professions. Students will gain an understanding of the attorney-client relationship and the importance of confidentiality, discovery, pretrial motions, jury selection, opening statements, direct and cross examinations, proper use of objections and the rules of evidence, and closing arguments. By conducting elements of a full trial in a mock setting, students will also increase their ability to extemporize appropriately by thinking on their feet. Students will learn how to evaluate a set of facts and mold it into a coherent trial strategy, learning trial practice from the ground floor.
Program of Study: Legal Studies

Advanced Marketing

Course Code: 13034700
Course Abbreviation: ADVMKTG
Credits: 2
Level: 4
Prerequisite: One credit from the courses in the Business, Marketing, and Finance career cluster
Corequisite: None
Recommended Prerequisite: Practicum in Marketing
Recommended Corequisite: None

In Advanced Marketing, students will gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to solve problems related to marketing. This course covers technology, communication, and customer-service skills.
Program of Study: Marketing and Sales

Advanced Placement (AP) Computer Science A

Course Code:
A3580110 (Math)
A3580120 (LOTE)
Course Abbreviation:
APTACSAM
APTACSAL
Credits: 2: A3580110 (1) A3580120 (1)
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I or a student should be comfortable with functions and the concepts found in the uses of functional notation such as f(x) = x + 2 and f(x) = g(h(x))
Recommended Corequisite: None

Content requirements for Advanced Placement (AP) Computer Science A are prescribed in the College Board Publication Advanced Placement Course Description: Computer Science A, published by The College Board.
Note: This course satisfies a high school mathematics graduation and a LOTE graduation requirement.
Programs of Study: Cybersecurity, and Programming and Software Development

Advanced Placement (AP) Computer Science Principles

Course Code: A3580300 **Course Abbreviation:** APCSPRIN
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I
Recommended Corequisite: None

Content requirements for Advanced Placement (AP) Computer Science Principles are prescribed in the College Board Publication Advanced Placement® Curriculum Framework: AP Computer Science Principles, published by The College Board.
Programs of Study: Cybersecurity, Networking Systems, and Programming and Software Development

Advanced Plant and Soil Science

Course Code: 13002100 **Course Abbreviation**: ADVPSSCI
Credit: 1 **Level**: 4
Prerequisites: Biology; either chemistry or Integrated Physics and Chemistry (IPC); Algebra I; Geometry; and either Horticultural Science, Greenhouse Operation and Production, or Floral Design
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Advanced Plant and Soil Science provides a way of learning about the natural world. In this course, students learn how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic knowledge and skills, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Students must meet the 40% laboratory and fieldwork requirement.
Note: This course satisfies a high school science graduation requirement.
Program of Study: Plant Science

Advanced Shipboard Engineering

Course Code: N1304667 **Course Abbreviation**: ADVSE
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Shipboard Engineering
Recommended Corequisite: None

The Advanced Shipboard Engineering course includes advanced knowledge of the function, design, and relationships of the systems and components of propulsion and habitability systems. This course will build on knowledge and skills established in the Principles of Maritime Science and Introduction to Shipboard Engineering courses. This course is designed to provide advanced training for employment, licensures, or post-secondary degree programs in the shipboard engineering industry. Instruction includes functions and components of cooling, fuel, lubricating, electrical, air conditioning and refrigeration, propulsion, and mechanical systems of maritime diesel engines. In addition, the students will receive instruction in safety, engine instruments, and environmental compliance.
Program of Study: Maritime (Regional)

Advanced User Experience Design

Course Code: 13027530
Course Abbreviation: ADVUXDES
Credit: 1
Level: 3
Prerequisite: Foundations of User Experience
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Advanced User Experience Design course allows students to apply skills in science and art to integrate technology as a useful, meaningful, memorable, and accessible source for all users. Students will use knowledge from the Foundations of User Experience course to expand the research, design process, testing, and communication skills essential for success in this user-focused career field.
Programs of Study: Graphic Design and Interactive Media, and Web Development

Advanced Video Game Programming

Course Code: N1300995
Course Abbreviation: ADVIDEOGP
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Video Game Design and Video Game Programming
Recommended Corequisite: None

Advanced Video Game Programming students will be introduced to mobile application design and programming using Java and Eclipse for Android devices. Time will be spent learning basic Java programming and working with Android Studio to develop real working apps. Using Unity as an introduction to 3D game development, students will have exposure to and an understanding of: object-oriented programming concepts; game development skill with programs such as Unity; 3D modeling with programs such as Blender; image manipulation with programs such as GIMP; concepts related to the design process; and the ability to communicate and collaborate on group-based projects.
Program of Study: Graphic Design and Interactive Media

Advertising

Course Code: 13034200
Course Abbreviation: ADVERTIS
Credit: .5
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.
Programs of Study: Marketing and Sales, and Retail Management (Regional)

Aerospace Design I

Course Code: 12756040
Course Abbreviation: AERODES1
Credit: 1
Level: 2
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Geometry

Students enrolled in Aerospace Design I demonstrate knowledge and skills associated with the design evolution and emerging trends of aircraft and aerospace systems. Fundamental concepts such as forces of flight, structures, aerodynamics, propulsion, stability and control, and orbital mechanics are introduced as related to design decisions for atmospheric and space flight. These concepts are related to mission requirements and solution approaches.

Programs of Study: Aviation (Pilots), Engineering Foundations, and Mechanical and Aerospace Engineering

Aerospace Design II

Course Code: 12756045
Course Abbreviation: AERODES2
Credits: 2
Level: 3
Prerequisites: Geometry and Aerospace Design I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students enrolled in Aerospace Design II demonstrate knowledge and skills associated with the design and prototyping of aerospace systems. Through aerospace projects, students apply fundamental concepts such as managing an engineering project to meet mission requirements, prototyping, testing, and validating requirements. Students explore choices made for propulsion, material, and structural design as well as various ways aircraft can navigate. Emphasis is placed on team collaboration and professional documentation.

Programs of Study: Aviation (Pilots), Engineering Foundations, and Mechanical and Aerospace Engineering

Agribusiness Management and Marketing

Course Code: 13000900
Course Abbreviation: AGRBUSMM
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Program of Study: Agriculture Business, Leadership, and Communications

Agribusiness Management and Marketing + Agricultural Laboratory and Field Experience

Course Code: 13000910 **Course Abbreviation**: AGRBUSLAB
Credits: 2 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Program of Study: Agriculture Business, Leadership, and Communications

Agricultural Equipment Design and Fabrication

Course Code: 13002350 **Course Abbreviation**: AGEQDF
Credit: 1 **Level**: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Agricultural Mechanics and Metal Technologies
Recommended Corequisite: None

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication.

Program of Study: Agricultural Technology and Mechanical Systems

Agricultural Equipment Design and Fabrication + Agricultural Laboratory and Field Experience

Course Code: 13002360 **Course Abbreviation**: AGEQDFLAB
Credits: 2 **Level**: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Agricultural Mechanics and Metal Technologies
Recommended Corequisite: None

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication.

Program of Study: Agricultural Technology and Mechanical Systems

Agricultural Leadership, Research, and Communications

Course Code: 13000950 **Course Abbreviation:** AGLEAD
Credit: 1 **Level**: 4
Prerequisite: One credit from the courses in the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agricultural Leadership, Research, and Communications focuses on challenging students to use higher level thinking skills, develop leadership abilities, and develop and communicate agricultural positions effectively with all stakeholders. To prepare for careers in agriculture, food, and natural resources, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Agriculture Business, Leadership, and Communications

Agricultural Mechanics and Metal Technologies

Course Code: 13002200 **Course Abbreviation:** AGMECHMT
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), and Agricultural Technology and Mechanical Systems

Agricultural Mechanics and Metal Technologies + Agricultural Laboratory and Field Experience

Course Code: 13002210 **Course Abbreviation:** AGMECMTLAB
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), and Agricultural Technology and Mechanical Systems

Agricultural Power Systems

Course Code: 13002400 **Course Abbreviation:** AGPOWSYS
Credits: 2 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agricultural Power Systems is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.
Program of Study: Agricultural Technology and Mechanical Systems

Agricultural Power Systems + Agricultural Laboratory and Field Experience

Course Code: 13002410 **Course Abbreviation:** AGPOWSLAB
Credits: 3 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Agricultural Power Systems is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.
Program of Study: Agricultural Technology and Mechanical Systems

Agricultural Structures Design and Fabrication

Course Code: 13002300 **Course Abbreviation:** AGSDF
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Agricultural Mechanics and Metal Technologies
Recommended Corequisite: None

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.
Program of Study: Agricultural Technology and Mechanical Systems

Agricultural Structures Design and Fabrication + Agricultural Laboratory and Field Experience

Course Code: 13002310
Course Abbreviation: AGSDFLAB
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Agricultural Mechanics and Metal Technologies
Recommended Corequisite: None

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.
Program of Study: Agricultural Technology and Mechanical Systems

Aircraft Airframe Technology

Course Code: 13039400
Course Abbreviation: AIRAFTEC
Credits: 2
Level: 3
Prerequisite: Aircraft Maintenance Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Aircraft Airframe Technology is designed to teach the theory of operation of aircraft airframes and associated maintenance and repair practices of Federal Aviation Administration (FAA) airframe curriculum subjects utilizing aircraft, aircraft training devices, or equivalent simulated situations. In this course, the academic and technical skills are separated to reflect the learning outcomes as designed in the FAA Airman Certification Standards. Airframe maintenance and repair practices include knowledge of the theory, function, diagnosis, and service of airframe structures, systems, and components of aircraft. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Program of Study: Aviation Maintenance

Aircraft Airframe Technology + Advanced Transportation Systems Laboratory

Course Code: 13039410
Course Abbreviation: AIRAFTEC
Credits: 3
Level: 3
Prerequisite: Aircraft Maintenance Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Aircraft Airframe Technology is designed to teach the theory of operation of aircraft airframes and associated maintenance and repair practices of Federal Aviation Administration (FAA) airframe curriculum subjects utilizing aircraft, aircraft training devices, or equivalent simulated situations. In this course, the academic and technical skills are separated to reflect the learning outcomes as designed in the FAA Airman Certification Standards. Airframe maintenance and repair practices include knowledge of the theory, function, diagnosis, and service of airframe structures, systems, and components of aircraft. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Program of Study: Aviation Maintenance

Aircraft Maintenance Technology

Course Code: 13039360 **Course Abbreviation**: AIRMTECH
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Aircraft Technology
Recommended Corequisite: None

Aircraft Maintenance Technology is designed to teach the theory of operation, general maintenance, and repair practices of Federal Aviation Administration (FAA) general curriculum subjects utilizing aircraft, aircraft training devices, or equivalent simulated situations. In this course, the academic and technical skills are separated to reflect the learning outcomes as designed in the FAA airman certification standards. Maintenance and repair practices include knowledge of the function, diagnosis, and service of aircraft and their associated equipment. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Program of Study: Aviation Maintenance

Aircraft Maintenance Technology + Advanced Transportation Systems Laboratory

Course Code: 13039370 **Course Abbreviation**: AIRMTLAB
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Aircraft Technology
Recommended Corequisite: None

Aircraft Maintenance Technology is designed to teach the theory of operation, general maintenance, and repair practices of Federal Aviation Administration (FAA) general curriculum subjects utilizing aircraft, aircraft training devices, or equivalent simulated situations. In this course, the academic and technical skills are separated to reflect the learning outcomes as designed in the FAA airman certification standards. Maintenance and repair practices include knowledge of the function, diagnosis, and service of aircraft and their associated equipment. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Program of Study: Aviation Maintenance

Aircraft Powerplant Technology

Course Code: 13039500 **Course Abbreviation**: AIRPPTEC
Credits: 2 **Level**: 4
Prerequisite: Aircraft Maintenance Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Aircraft Powerplant Technology is designed to teach the theory of operation of aircraft powerplants and associated maintenance and repair practices of the Federal Aviation Administration (FAA) powerplant curriculum subjects utilizing aircraft, aircraft training devices, or equivalent simulated situations. In this course, the academic and technical skills are separated to reflect the learning outcomes as designed in the FAA Airman Certification Standards. Powerplant maintenance and repair practices include knowledge of the theory, function, diagnosis, and service of powerplants, systems, and components of aircraft. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Program of Study: Aviation Maintenance

Aircraft Powerplant Technology + Advanced Transportation Systems Laboratory

Course Code: 13039510 **Course Abbreviation**: AIRPPLAB
Credits: 3 **Level**: 4
Prerequisite: Aircraft Maintenance Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Aircraft Powerplant Technology is designed to teach the theory of operation of aircraft powerplants and associated maintenance and repair practices of the Federal Aviation Administration (FAA) powerplant curriculum subjects utilizing aircraft, aircraft training devices, or equivalent simulated situations. In this course, the academic and technical skills are separated to reflect the learning outcomes as designed in the FAA Airman Certification Standards. Powerplant maintenance and repair practices include knowledge of the theory, function, diagnosis, and service of powerplants, systems, and components of aircraft. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Program of Study: Aviation Maintenance

Allied Health Therapeutic Services

Course Code: N1302120 **Course Abbreviation**: ALLHTS
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Allied Health
Recommended Corequisite: None

Allied Health Therapeutic Services builds on the concepts from Principles of Allied Health and allows students to apply the concepts, knowledge, and skills necessary for a health career in an allied health field. This course will focus on anatomy and physiology, medical terminology, and career skills and exploration associated with healthcare industry standards for respiratory therapy, physical and occupational therapy, radiological imaging, and pharmaceuticals. This course is designed for students who are interested in pursuing careers in the allied health fields.
Programs of Study: Diagnostic and Therapeutic Services, and Exercise Science, Wellness, and Restoration

Anatomy and Physiology

Course Code: 13020600 **Course Abbreviation**: ANATPHYS
Credit: 1 **Level**: 3
Prerequisites: One credit in biology and one credit in chemistry, Integrated Physics and Chemistry (IPC), or physics
Corequisite: None
Recommended Prerequisite: A course from the Health Science career cluster
Recommended Corequisite: None

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Fire Science, and Nursing Science

Animation I

Course Code: 13008300
Course Abbreviation: ANIMAT1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications or Art I
Recommended Corequisite: Animation I Lab

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.
Program of Study: Graphic Design and Interactive Media

Animation I + Animation I Lab

Course Code: 13008310
Course Abbreviation: ANILAB1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications or Art I
Recommended Corequisite: None

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.
Program of Study: Graphic Design and Interactive Media

Animation II

Course Code: 13008400
Course Abbreviation: ANIMAT2
Credit: 1
Level: 3
Prerequisite: Animation I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Animation II Lab

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry.
Program of Study: Graphic Design and Interactive Media

Animation II + Animation II Lab

Course Code: 13008410
Course Abbreviation: ANILAB2
Credits: 2
Level: 3
Prerequisite: Animation I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry.
Program of Study: Graphic Design and Interactive Media

Applied Mathematics for Technical Professionals

Course Code: 12701410
Course Abbreviation: APMATHTP
Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Algebra 1 and Geometry
Recommended Corequisite: None

Applied Mathematics for Technical Professionals uses problem-solving situations, hands-on activities, and technology to extend mathematical thinking and engage student reasoning. Situations relating to technical applications provide students opportunities to make connections with mathematics and the workplace. In addition, students will learn the skills necessary to communicate using mathematics. Hands-on activities will allow students to model, explore, and develop abstract concepts applicable to technical careers. (Essential to this course is the partnership between mathematics and technical teachers.)
Note: This course satisfies a high school mathematics graduation requirement.
Programs of Study: Electronics Technology (Regional), Oil and Gas Exploration and Production, Refining and Chemical Processes, and Renewable Energy

Applied Nutrition and Dietetics

Course Code: N1302541
Course Abbreviation: APPNUTR
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Human Services, Lifetime Nutrition and Wellness and/or Human Growth and Development
Recommended Corequisites: None

The Applied Nutrition and Dietetics course builds on the fundamental nutritional knowledge gained from the Lifetime Nutrition and Wellness course by reinforcing professional standards, food safety and sanitation, food service and management, and nutrition care for individuals and groups at a deeper level. The course also introduces and applies career focused and real-world topics related to nutrition such as the nutrition care process, types of nutrition education and counseling, development of nutrition programs, and nutrition industry related research. Students will research requirements necessary to become a professional in the nutrition and dietetics field such as a registered dietitian, licensed nutritionist, or clinical dietitian.
Programs of Study: Exercise Science, Wellness, and Restoration, and Health and Wellness

Architectural Design I

Course Code: 13004600
Course Abbreviation: ARCHDSN1
Credit: 1
Level: 2
Prerequisites: Algebra l and English l
Corequisite: None
Recommended Prerequisites: Geometry, Principles of Architecture, and Principles of Construction
Recommended Corequisites: None

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.
Program of Study: Architectural Drafting and Design

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Architectural Design II

Course Code: 13004700 **Course Abbreviation**: ARCHDSN2
Credits: 2 **Level**: 3
Prerequisite: Architectural Design l or Advanced Interior Design and Geometry
Corequisite: None
Recommended Prerequisites: Principles of Architecture and Principles of Construction
Recommended Corequisites: None

In Architectural Design II, students will gain advanced knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design II includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.
Program of Study: Architectural Drafting and Design

Architectural Engineering

Course Code: 12756065 **Course Abbreviation**: ARCHENGR
Credits: 2 **Level**: 3
Prerequisite: Civil Engineering I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students enrolled in Architectural Engineering use principles of engineering and design tools to create innovative, functional, and sustainable buildings. Students develop cursory knowledge and essential skills to understand the design of buildings, including the mechanical, electrical, plumbing, and structural systems, while also planning the construction process. They engage in project planning, building and system analysis, site investigation, and the integration of sustainable design and construction practices for an architectural engineering project.
Programs of Study: Architectural Drafting and Design, Civil Engineering, and Engineering Foundations

Audio/Video Production I

Course Code: 13008500 **Course Abbreviation**: AVPROD1
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications
Recommended Corequisite: Audio/Video Production I Lab

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.
Program of Study: Digital Communications

Audio/Video Production I + Audio/Video Production I Lab

Course Code: 13008510 **Course Abbreviation**: AVPLAB1
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications or Digital Media
Recommended Corequisite: None

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.
Program of Study: Digital Communications

Audio/Video Production ll

Course Code: 13008600 **Course Abbreviation**: AVPROD2
Credit: 1 **Level**: 3
Prerequisite: Audio/Video Production l
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Audio/Video Production II Lab

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production I, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. This course may be implemented in an audio format or a format with both audio and video.
Program of Study: Digital Communications

Audio/Video Production II + Audio/Video Production II Lab

Course Code: 13008610 **Course Abbreviation**: AVPLAB2
Credits: 2 **Level**: 3
Prerequisite: Audio/Video Production l
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production I, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. This course may be implemented in an audio format or a format with both audio and video.
Program of Study: Digital Communications

Automotive Basics

Course Code: 13039550
Course Abbreviation: AUTOBASC
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.
Program of Study: Automotive and Collision Repair

Automotive Technology l: Maintenance and Light Repair

Course Code: 13039600
Course Abbreviation: AUTOTEC1
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Automotive Basics
Recommended Corequisite: None

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.
Program of Study: Automotive and Collision Repair

Automotive Technology ll: Automotive Service

Course Code: 13039700
Course Abbreviation: AUTOTEC2
Credits: 2
Level: 4
Prerequisite: Automotive Technology l: Maintenance and Light Repair
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.
Program of Study: Automotive and Collision Repair

Automotive Technology ll: Automotive Service + Advanced Transportation Systems Laboratory

Course Code: 13039710 **Course Abbreviation**: AUTOLAB2
Credits: 3 **Level**: 4
Prerequisite: Automotive Technology l: Maintenance and Light Repair
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.
Program of Study: Automotive and Collision Repair

Aviation Ground School

Course Code: N1304675 **Course Abbreviation**: AVIAGS
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended prerequisite: Algebra I, Introduction to Unmanned Aerial Vehicles (UAV), Introduction to Aircraft Technology, or Junior Reserve Officer Training Corps (JROTC) II
Recommended Corequisite: None

This course is designed to extend student interests in all aspects of aviation while preparing students to take the formal ground requisite exam for the Federal Aviation Administration (FAA) Airman Knowledge Test which is required to obtain a private pilot's license. The rigor of the course challenges students with complex aeronautical, engineering, weather, management, and judgment concepts. Rules, regulations, obligations, and commitments to discipline and focus are foundational throughout the course. The ability to grasp flight without actually flying a real aircraft extends well beyond the classroom as students learn navigation, weather science, attention to detail (mathematical fuel and load planning), health and mental well-being related to flight planning and piloting aircraft.
Program of Study: Aviation (Pilots)

Banking and Financial Services

Course Code: 13016300 **Course Abbreviation**: BANKFIN
Credit: .5 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

In Banking and Financial Services, students will develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent employees and entrepreneurs. Students will incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.
Program of Study: Accounting and Financial Services

Barbering I

Course Code: N1302534
Course Abbreviation: BARBER1
Credits: 3
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Barbering is an extended course of study that enables students to become licensed barbers through Texas Department of Licensing and Regulation (TDLR). Barbering I allows students to earn an industry certificate that launches them into a professional career immediately, yet also specifies rigorous core curricula that prepares the student to be successful in a post-secondary learning environment.
Program of Study: Cosmetology and Personal Care Services (Regional)

Barbering II

Course Code: N1302535
Course Abbreviation: BARBER2
Credits: 3
Level: 4
Prerequisite: Barbering I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Barbering is an extended course of study that enables students to become licensed barbers through Texas Department of Licensing and Regulation (TDLR). Barbering II allows students to earn an industry certificate that launches them into a professional career immediately, yet also specifies rigorous core curricula that prepares the student to be successful in a post-secondary learning environment.
Program of Study: Cosmetology and Personal Care Services (Regional)

Basic Collision Repair and Refinishing

Course Code: 13039750
Course Abbreviation: BASCOLRR
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Basic Collision Repair and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.
Program of Study: Automotive and Collision Repair

Basic Fluid Power

Course Code: N1303683
Course Abbreviation: BASICFP
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended prerequisites: Algebra I, Geometry, and Solid-State Electronics
Recommended Corequisite: None

Basic Fluid Power is an overview of automated manufacturing principles. It includes coverage of the manufacturing process, control systems, and measurement theory. Students will identify terminology and fundamental concepts of manufacturing; describe the trends of manufacturing careers within the industry cluster; identify safety, health, environmental, and ergonomic issues in manufacturing; discuss quality and continuous improvement methods; describe the importance of maintenance within manufacturing; and identify processes and production steps in manufacturing.
Program of Study: Industrial Maintenance

Beekeeping and Honey Processing

Course Code: 13002110
Course Abbreviation: BEEHONPR
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Beekeeping and Honey Processing is a course designed to provide students with the academic and technical knowledge and skills that are required to pursue a career related to beekeeping, apiary operations, honey harvesting, and related industries. Beekeeping and honey processing is a vital part of the United States agricultural economy. To prepare for success in Beekeeping and Honey Processing, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Program of Study: Environmental and Natural Resources

Biomedical Innovation (PLTW)

Course Code: N1302095
Course Abbreviation: BIOINN
Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: At least one credit in a Level 2 or higher course in the Biomedical Science program of study
Recommended Corequisite: None

In Biomedical Innovation, students design innovative solutions for health challenges of the 21st century working through challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. Students are presented with each problem in a mission file, a case brief, a list of completion tasks, links to resources, and a reflection section. This provides skills-based instruction in research and experimentation and tools students use to design innovative solutions to real-world problems. The student uses what they learn in these missions as they develop and implement their independent project at the end of the year, culminating in the creation of a project portfolio. Students are encouraged to work with a mentor from the biomedical industry and present their work to an audience from the health care community.
Program of Study: Biomedical Science

Biotechnology I

Course Code: 13036400 **Course Abbreviation**: BIOTECH1
Credit: 1 **Level**: 2
Prerequisite: One credit in biology
Corequisite: None
Recommended Prerequisites: Principles of Bioscience and one credit in chemistry
Recommended Corequisite: None

In Biotechnology I, students will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations and make informed decisions using critical thinking, scientific problem solving, and the engineering design process. Students in Biotechnology I will study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics. Students must meet the 40% laboratory and fieldwork requirement.
Note: This course satisfies a high school science graduation requirement.
Program of Study: Biomedical Science

Biotechnology II

Course Code: 13036450 **Course Abbreviation**: BIOTECH2
Credit: 1 **Level**: 3
Prerequisites: One credit in chemistry and Biotechnology I
Corequisite: None
Recommended Prerequisites: None
Recommended Corequisite: None

Biotechnology II has the components of any rigorous scientific or bioengineering program of study. This course applies the standard skills mastered in Biotechnology I and includes additional skills related to assay design, protein analysis, applications of genetic engineering, and quality management. After taking this course, students should be prepared for entry-level lab technician jobs. Students must meet the 40% laboratory and fieldwork requirement.
Note: This course satisfies a high school science graduation requirement.
Program of Study: Biomedical Science

Blueprint Reading for Manufacturing Applications

Course Code: N1303684 **Course Abbreviation**: BRFMA
Credit: 1 **Level**: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Algebra I, Geometry, and Principles of Construction
Recommended Corequisite: None

Blueprint Reading for Manufacturing Applications is an introduction to reading and interpreting working drawings for fabrication processes and associated trades. Students will learn sketching techniques to create pictorial and multiple-view drawings. Students will interpret working drawings including dimensions, notes, symbols, sections and auxiliary views.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), Electronics Technology (Regional), and Manufacturing Technology

Building Maintenance Technology I

Course Code: 13005400 **Course Abbreviation**: BUILDMA1
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Architecture or Principles of Construction
Recommended Corequisite: None

In Building Maintenance Technology I, students will gain knowledge and skills needed to enter the field of building maintenance as a building maintenance technician or supervisor or secure a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in plumbing; electrical; and heating, ventilation, and air conditioning (HVAC) systems. Additionally, students will learn methods for repair and installation of drywall, roof, and insulation systems.
Programs of Study: Construction Management and Inspection, HVAC and Sheet Metal, and Plumbing and Pipefitting

Building Maintenance Technology II

Course Code: 13005500 **Course Abbreviation**: BUILDMA2
Credits: 2 **Level**: 3
Prerequisite: Building Maintenance Technology l
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Building Maintenance Technology II, students will continue to gain advanced knowledge and skills needed to enter the workforce as a building maintenance technician or supervisor and construction project manager or secure a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, Occupational Safety and Health Administration (OSHA) standards, and safety devices in electrical circuits; maintenance of electrical and heating, ventilation, and air conditioning (HVAC) systems; and concepts of historic preservation.
Program of Study: Construction Management and Inspection

Business Communication and Technologies

Course Code: 13011500 **Course Abbreviation**: BUSICT
Credit: 1 **Level**: 2
Prerequisite: Foundations of Business Communication and Technologies
Corequisite: None
Recommended Prerequisite: Touch System Data Entry
Recommended Corequisite: Business Lab

In Business Communication and Technologies, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.
Program of Study: Business Management

Business Communication and Technologies + Business Lab

Course Code: 13011510 **Course Abbreviation**: BUSICTLAB
Credits: 2 **Level**: 2
Prerequisite: Foundations of Business Communication and Technologies
Corequisite: None
Recommended Prerequisite: Touch System Data Entry
Recommended Corequisite: None

In Business Communication and Technologies, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.
Program of Study: Business Management

Business English

Course Code: 13011600 **Course Abbreviation**: BUSENGL
Credit: 1 **Level**: None
Prerequisite: English lll
Corequisite: None
Recommended Prerequisite: Touch System Data Entry
Recommended Corequisite: None

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.
Note: This course satisfies the high school advanced English graduation requirement.
This course is not in a program of study

Business Law

Course Code: 13011700 **Course Abbreviation**: BUSLAW
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.
Programs of Study: Business Management, Legal Studies, and Real Estate

Business Management

Course Code: 13012100 **Course Abbreviation**: BUSMGT
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.
Programs of Study: Business Management, and Lodging and Resort Management

Career and Technical Education Project-Based Capstone

Course Code:
12701101 (First Time Taken)
12701102 (Second Time Taken)
12701103 (Third Time Taken)

Course Abbreviation:
CTEPBC1
CTEPBC2
CTEPBC3

Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Career and Technical Education Project-Based Capstone is a course designed for students to develop and enhance essential skills while investigating real-world problems, issues, or interests. Students work independently or collaboratively with others within or across career clusters or programs of study. Students partner with mentor(s) or advisor(s) to develop a project. Students conduct research, compile findings, implement project activities appropriate to student contribution, and present their work to a relevant audience that may include industry experts. Students may repeat this course with different course content for up to three credits. *Note: Second Time Taken and Third Time Taken are not in a program of study and do not count for CCMR, and earn 1.1 weighted funding.*

Programs of Study: Agricultural Technology and Mechanical Systems, Agriculture Business, Leadership, and Communications, Animal Science, Architectural Drafting and Design, Biomedical Science, Civil Engineering, Cybersecurity, Drone (Unmanned Vehicle) (Regional), Early Learning, Electrical Engineering, Engineering Foundations, Entrepreneurship, Environmental and Natural Resources, Exercise Science, Wellness, and Restoration, Family and Community Services, Fire Science, Food Science and Technology, Geospatial Engineering and Land Surveying (Regional), Health Informatics, Information Technology Support and Services, Legal Studies, Mechanical and Aerospace Engineering, Networking Systems, Oil and Gas Exploration and Production, Plant Science, Programming and Software Development, Refining and Chemical Processes, Renewable Energy, Teaching and Training, and Web Development

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Career Preparation for Programs of Study

Course Code:
12701121 (First Time Taken)
12701122 (Second Time Taken)

Course Abbreviation:
CPPS1
CPPS2

Credits: 2

Level: 4

Prerequisite: At least one Level 2 or higher CTE course
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Career Preparation for Programs of Study provides additional opportunities for students to develop business and industry employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. The goal is to prepare students with a variety of skills to transition from job- to career-mindedness. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Career Preparation for Programs of Study expands on Career Preparation General by increasing rigor, supporting student attainment of academic standards, and effectively preparing students for college and career success.
Note: Second Time Taken is not in a program of study and does not count for CCMR, and earns 1.1 weighted funding.
Programs of Study: Accounting and Financial Services, Advanced Manufacturing and Industrial Technology (Regional), Agricultural Technology and Mechanical Systems, Agriculture Business, Leadership, and Communications, Animal Science, Architectural Drafting and Design, Automotive and Collision Repair, Aviation Maintenance, Aviation (Pilots), Biomedical Science, Business Management, Carpentry, Civil Engineering, Construction Management and Inspection, Cosmetology and Personal Care Services (Regional), Culinary Arts, Cybersecurity, Diagnostic and Therapeutic Services, Diesel and Heavy Equipment Maintenance and Commercial Driver, Digital Communications, Distribution, Logistics, and Warehousing, Drone (Unmanned Vehicle) (Regional), Early Learning, Electrical, Electrical Engineering, Electronics Technology (Regional), Engineering Foundations, Entrepreneurship, Environmental and Natural Resources, Exercise Science, Wellness, and Restoration, Family and Community Services, Fire Science, Food Science and Technology, Geospatial Engineering and Land Surveying (Regional), Government and Public Administration, Graphic Design and Interactive Media, Health and Wellness, Health Informatics, HVAC and Sheet Metal, Industrial Maintenance, Information Technology Support and Services, Law Enforcement, Legal Studies, Lodging and Resort Management, Manufacturing Technology, Maritime (Regional), Marketing and Sales, Masonry, Mechanical and Aerospace Engineering, Networking Systems, Nursing Science, Oil and Gas Exploration and Production, Plant Science, Plumbing and Pipefitting, Printing and Imaging (Regional), Programming and Software Development, Real Estate, Refining and Chemical Processes, Renewable Energy, Retail Management (Regional), Robotics and Automation Technology, Teaching and Training, Travel, Tourism, and Attractions, Web Development, and Welding.

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Career Preparation for Programs of Study + Extended Career Preparation

Course Code:
12701141 (First Time Taken)
12701142 (Second Time Taken)

Course Abbreviation:
EXCPPS1
EXCPPS2

Credits: 3
Level: 4
Prerequisite: At least one Level 2 or higher CTE course
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Career Preparation for Programs of Study provides additional opportunities for students to develop business and industry employment experiences, which must be related to the student's current program of study alongside advanced classroom instruction. The goal is to prepare students with a variety of skills to transition from job- to career-mindedness. This course provides a continuing focus on collaborative feedback between the employer, teacher, and student. Career Preparation for Programs of Study expands on Career Preparation General by increasing rigor, supporting student attainment of academic standards, and effectively preparing students for college and career success.
Note: Second Time Taken is not in a program of study and does not count for CCMR, and earns 1.1 weighted funding.
Programs of Study: Accounting and Financial Services, Advanced Manufacturing and Industrial Technology (Regional), Agricultural Technology and Mechanical Systems, Agriculture Business, Leadership, and Communications, Animal Science, Architectural Drafting and Design, Automotive and Collision Repair, Aviation Maintenance, Aviation (Pilots), Biomedical Science, Business Management, Carpentry, Civil Engineering, Construction Management and Inspection, Cosmetology and Personal Care Services (Regional), Culinary Arts, Cybersecurity, Diagnostic and Therapeutic Services, Diesel and Heavy Equipment Maintenance and Commercial Driver, Digital Communications, Distribution, Logistics, and Warehousing, Drone (Unmanned Vehicle) (Regional), Early Learning, Electrical, Electrical Engineering, Electronics Technology (Regional), Engineering Foundations, Entrepreneurship, Environmental and Natural Resources, Exercise Science, Wellness, and Restoration, Family and Community Services, Fire Science, Food Science and Technology, Geospatial Engineering and Land Surveying (Regional), Government and Public Administration, Graphic Design and Interactive Media, Health and Wellness, Health Informatics, HVAC and Sheet Metal, Industrial Maintenance, Information Technology Support and Services, Law Enforcement, Legal Studies, Lodging and Resort Management, Manufacturing Technology, Maritime (Regional), Marketing and Sales, Masonry, Mechanical and Aerospace Engineering, Networking Systems, Nursing Science, Oil and Gas Exploration and Production, Plant Science, Plumbing and Pipefitting, Printing and Imaging (Regional), Programming and Software Development, Real Estate, Refining and Chemical Processes, Renewable Energy, Retail Management (Regional), Robotics and Automation Technology, Teaching and Training, Travel, Tourism, and Attractions, Web Development, and Welding.

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Career Preparation General

Course Code:
12701111 (First Time Taken)
12701112 (Second Time Taken)

Course Abbreviation:
CPGEN1
CPGEN2

Credits: 2
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: At least one credit in a CTE course
Recommended Corequisite: None

Career Preparation General provides opportunities for students to participate in a work-based learning environment that incorporates continuous collaborative feedback between the employer, teacher, and student. This course combines classroom instruction with business and industry employment experiences that may be outside the student's current program of study. The goal is for students to obtain entry-level employment developing a variety of skills for obtaining and maintaining employment. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.
This course is not in a program of study

Career Preparation General + Extended Career Preparation

Course Code:
12701131 (First Time Taken)
12701132 (Second Time Taken)

Course Abbreviation:
EXCPGEN1
EXCPGEN2

Credits: 3
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: At least one credit in a CTE course
Recommended Corequisite: None

Career Preparation General provides opportunities for students to participate in a work-based learning environment that incorporates continuous collaborative feedback between the employer, teacher, and student. This course combines classroom instruction with business and industry employment experiences that may be outside the student's current program of study. The goal is for students to obtain entry-level employment developing a variety of skills for obtaining and maintaining employment. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.
This course is not in a program of study

Child Development

Course Code: 13024700
Course Abbreviation: CHILDDEV
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services or Principles of Education and Training
Recommended Corequisite: None

Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.
Programs of Study: Early Learning, Family and Community Services, Health and Wellness, and Teaching and Training

Child Development Associate Foundations

Course Code: 13024710 **Course Abbreviation**: CDAFND
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Education and Training or Principles of Human Services
Recommended Corequisite: None

The Child Development Associate Foundations course is a laboratory course addressing the knowledge and skills related to applying Child Development Associate Competency Standards in early childhood environments and understanding how these competencies help young children move with success from one developmental stage to the next.
Programs of Study: Early Learning, and Family and Community Services

Child Guidance

Course Code: 13024800 **Course Abbreviation**: CHILDGUI
Credits: 2 **Level**: 3
Prerequisite: Child Development or Child Development Associate Foundations
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Child Guidance is a course that addresses the knowledge and skills related to child growth and guidance, equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing.
Program of Study: Early Learning

Civil Engineering I

Course Code: 12756050 **Course Abbreviation**: CVENGR1
Credit: 1 **Level**: 2
Prerequisites: Algebra I and Introduction to Computer-Aided Design and Drafting or Principles of Applied Engineering
Corequisite: None
Recommended Prerequisite: Geometry
Recommended Corequisite: None

Students in Civil Engineering I are introduced to the basic principles and practices essential to the field of civil engineering. Throughout this course students investigate different career paths in civil engineering, explore the various specializations within the field, and understand the phases and life cycle of civil engineering projects. They also delve into the functional mathematics crucial to the profession. Additionally, the course emphasizes the importance of effective project document structure and project management, ethical considerations, and the impact of civil engineering on the natural and built environment.
Program of Study: Civil Engineering

Civil Engineering II

Course Code: 12756055
Course Abbreviation: CVENGR2
Credit: 2
Level: 3
Prerequisites: Geometry and Civil Engineering I
Corequisite: None
Recommended Prerequisite: Introduction to Computer-Aided Design and Drafting
Recommended Corequisite: None

Students in Civil Engineering II apply the principles and practices essential to various subdisciplines within civil engineering. Throughout this course, students develop knowledge and skills essential to the design development and construction of a civil engineering project. The students explore the impacts and constraints on the design of a project. They also delve into the functional mathematics crucial to the profession. Additionally, the course emphasizes the importance of effective project document structure and project management, ethical considerations, and the impact of civil engineering on the natural and built environment.
Program of Study: Civil Engineering

Clinical Ethics

Course Code: N1302121
Course Abbreviation: CLINETH
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Nursing Science and Science of Nursing
Recommended Corequisite: None

The Clinical Ethics course is a practical review of a discipline that provides a structured approach to assist health professionals in identifying, analyzing, and resolving ethical issues that arise in clinical practice. Students analyze ongoing developments in advanced medical technology. The course may raise awareness of or concerns about the ethical dimensions of clinical care. Students will leave the course with a practical awareness of how to respect diverse perspectives on ethics, morals, and values in healthcare.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, and Nursing Science

Collision Repair

Course Code: 13039800
Course Abbreviation: COLLISR
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Basic Collision Repair and Refinishing
Recommended Corequisite: None

Collision Repair includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.
Program of Study: Automotive and Collision Repair

Collision Repair + Advanced Transportation Systems Laboratory

Course Code: 13039810
Course Abbreviation: COLLRLAB
Credits: 3
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Basic Collision Repair and Refinishing
Recommended Corequisite: None

Collision Repair includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.
Program of Study: Automotive and Collision Repair

Commercial Photography I

Course Code: 13009100
Course Abbreviation: CPHOTO1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Commercial Photography I Lab

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.
Program of Study: Graphic Design and Interactive Media

Commercial Photography I + Commercial Photography I Lab

Course Code: 13009110
Course Abbreviation: CPHLAB1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.
Program of Study: Graphic Design and Interactive Media

Commercial Photography ll

Course Code: 13009200 **Course Abbreviation**: CPHOTO2
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Commercial Photography l and Commercial Photography l Lab
Recommended Corequisite: Commercial Photography II Lab

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.
Program of Study: Graphic Design and Interactive Media

Commercial Photography ll + Commercial Photography ll Lab

Course Code: 13009210 **Course Abbreviation**: CPHLAB2
Credits: 2 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Commercial Photography l and Commercial Photography l Lab
Recommended Corequisite: None
Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.
Program of Study: Graphic Design and Interactive Media

Communication and Technology in Education

Course Code: 13014310 **Course Abbreviation**: CMTED
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Education and Training
Recommended Corequisite: None

Communication and Technology in Education is an extended course of study designed to provide students with the fundamentals of planning, managing, and training services needed to provide learning support services in Kindergarten-Grade 12 classrooms. Students will develop knowledge and skills regarding the professional, ethical, and legal responsibilities in teaching related to educational technology; students will also understand laws and pedagogical justifications regarding classroom technology use. Students will develop knowledge of developmentally appropriate practice for age level when technology is used by learners. This course provides an opportunity for students to participate in training related to standards set by the International Society for Technology in Education.
Program of Study: Teaching and Training

Computer-Aided Drafting for Architecture

Course Code: N1300429
Course Abbreviation: CAD4ARCH
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Architectural Design
Recommended Corequisite: None

Computer-Aided Drafting for Architecture introduces students to the specific architectural computer-aided design and drafting (CADD) software and equipment required to produce architectural working drawings and construction documents.
Program of Study: Architectural Drafting and Design

Computer Integrated Manufacturing (PLTW)

Course Code: N1303748
Course Abbreviation: CIM
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Engineering Design
Recommended Corequisite: College preparatory mathematics and science courses

PLTW Computer Integrated Manufacturing is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of efficiently creating the products around us. Students build upon their Computer-Aided Design (CAD) experience through the use of Computer-Aided Manufacturing (CAM) software. CAM transforms a digital design into a program that a Computer Numerical Controlled (CNC) mill uses to transform a block of raw material into a product designed by a student. Students learn and apply concepts related to integrating robotic systems such as Automated Guided Vehicles (AGV) and robotic arms into manufacturing systems. Throughout the course students learn about manufacturing processes and systems. This course culminates with a capstone project where students design, build, program, and present a manufacturing system model capable of creating a product.
Programs of Study: Electrical Engineering, Engineering Foundations, Manufacturing Technology

Computer Maintenance

Course Code: 13027300
Course Abbreviation: COMPMTN
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Information Technology
Recommended Corequisite: Computer Maintenance Lab

In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems

Computer Maintenance + Computer Maintenance Lab

Course Code: 13027310 **Course Abbreviation**: COMMTLAB
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Information Technology
Recommended Corequisite: None

In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems

Computer Science I

Course Code: 03580200 **Course Abbreviation**: TACS1
Credit: 1 **Level**: 2
Prerequisite: Algebra I
Corequisite: Algebra I
Recommended Prerequisite: None
Recommended Corequisite: None

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through computational thinking and data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.
Programs of Study: Cybersecurity, Networking Systems, Programming and Software Development, and Web Development

Computer Science II

Course Code: 03580300 **Course Abbreviation**: TACS2
Credit: 1 **Level**: 3
Prerequisites: Algebra I and Computer Science I or AP Computer Science Principles
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through computational thinking and data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.
Program of Study: Programming and Software Development

Computer Science III

Course Code: 03580350
Course Abbreviation: TACS3
Credit: 1
Level: 4
Prerequisite: Computer Science II, Advanced Placement (AP) Computer Science A, or International Baccalaureate (IB) Computer Science Standard Level or IB Computer Science Higher Level
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through computational thinking and data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will gain an understanding of advanced computer science data structures through the study of technology operations, systems, and concepts.
Program of Study: Programming and Software Development

Computer Technician Practicum

Course Code:
13027500 (First Time Taken)
13027510 (Second Time Taken)
Course Abbreviation:
COMPT1
COMPT2
Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Information Technology, Computer Maintenance, Computer Maintenance Lab, Networking, and Networking Lab
Recommended Corequisite: None

In the Computer Technician Practicum, students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an instructor, with an industry mentor, or both.
Program of Study: Information Technology Support and Services

Computer Technician Practicum + Extended Computer Technician Practicum

Course Code:
13027505 (First Time Taken)
13027515 (Second Time Taken)

Course Abbreviation:
EXCOMPT1
EXCOMPT2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Information Technology, Computer Maintenance, Computer Maintenance Lab, Networking, and Networking Lab
Recommended Corequisite: None

In the Computer Technician Practicum, students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an instructor, with an industry mentor, or both.
Program of Study: Information Technology Support and Services

Concepts of Distribution and Logistics Technology

Course Code: N1303800
Course Abbreviation: DISTLOG
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Concepts of Distribution and Logistics Technology, students will gain knowledge and skills in safe application, design, and assessment of technologies used in the supply chain and logistics industries. The students will apply knowledge and skills in using standard and emerging technologies in the field of logistics. This course allows students to understand, apply, and simulate the new technologies of distribution and logistics. The Concepts of Distribution and Logistics Technology course will provide students with a broader basis for understanding the technology of managing, storing, shipping, and receiving different materials. These technologies will include data base tracking and delivering software, equipment, and services used in the field. The course will develop the students' knowledge of distribution, logistics, and the supply chain.
Program of Study: Distribution, Logistics, and Warehousing

Construction Management I

Course Code: 13004900
Course Abbreviation: CONSMGT1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Algebra I, Geometry, and Principles of Architecture or Principles of Construction
Recommended Corequisite: None

In Construction Management I, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management I includes the knowledge of design techniques and tools related to the management of architectural and engineering projects.
Program of Study: Construction Management and Inspection

Construction Management II

Course Code: 13005000
Course Abbreviation: CONSGMGT2
Credits: 2
Level: 3
Prerequisite: Construction Management I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Construction Management II, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management II includes knowledge of the design, techniques, and tools related to the management of architectural and engineering projects.
Program of Study: Construction Management and Inspection

Construction Technology I

Course Code: 13005100
Course Abbreviation: CONTECH1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Construction or Principles of Architecture
Recommended Corequisite: None

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. For safety and liability considerations, limiting course enrollment to 15 students is recommended.
Programs of Study: Carpentry, and Industrial Maintenance

Construction Technology II

Course Code: 13005200
Course Abbreviation: CONTECH2
Credits: 2
Level: 3
Prerequisite: Construction Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills. For safety and liability considerations, limiting course enrollment to 15 students is recommended.
Program of Study: Carpentry

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Correctional Services

Course Code: 13029700
Course Abbreviation: CORRSRVS
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

In Correctional Services, students prepare for certification required for employment as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.
Program of Study: Law Enforcement

Cosmetology I

Course Code: 13025200
Course Abbreviation: COSMET1
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Cosmetology
Recommended Corequisite: Cosmetology I Lab

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.
Program of Study: Cosmetology and Personal Care Services (Regional)

Cosmetology I + Cosmetology I Lab

Course Code: 13025210
Course Abbreviation: COSLAB1
Credits: 3
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Cosmetology
Recommended Corequisite: None

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.
Program of Study: Cosmetology and Personal Care Services (Regional)

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Cosmetology II

Course Code: 13025300
Course Abbreviation: COSMET2
Credits: 2
Level: 4
Prerequisite: Cosmetology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Cosmetology II Lab

In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies and materials; and practical skills.
Program of Study: Cosmetology and Personal Care Services (Regional)

Cosmetology II + Cosmetology II Lab

Course Code: 13025310
Course Abbreviation: COSLAB2
Credits: 3
Level: 4
Prerequisite: Cosmetology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies and materials; and practical skills.
Program of Study: Cosmetology and Personal Care Services (Regional)

Counseling and Mental Health

Course Code: 13024600
Course Abbreviation: COUNSMH
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services
Recommended Corequisite: None

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.
Programs of Study: Family and Community Services, Fire Science, Health and Wellness, and Law Enforcement

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Court Systems and Practices

Course Code: 13029600 **Course Abbreviation**: COURTSP
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Law Enforcement l or Principles of Government and Public Administration
Recommended Corequisite: None

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.
Program of Study: Legal Studies

Criminal Investigation

Course Code: 13029550 **Course Abbreviation**: CRINVEST
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.
Program of Study: Law Enforcement

Culinary Arts

Course Code: 13022600 **Course Abbreviation**: CULARTS
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Hospitality and Tourism and Introduction to Culinary Arts
Recommended Corequisite: None

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.
Program of Study: Culinary Arts

Cybersecurity Capstone

Course Code: 03580855
Course Abbreviation: TACYBCAP
Credit: 1
Level: 4
Prerequisite: Foundations of Cybersecurity
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.
Program of Study: Cybersecurity

Dental Anatomy and Physiology

Course Code: N1302122
Course Abbreviation: DENAP
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended prerequisites: Biology and Introduction to Dental Science
Recommended Corequisite: None

Dental Anatomy and Physiology is a health science course designed for exploration of the physiology of the head, neck, oral, and dental anatomy. Students will identify and describe functions of anatomical structures, including the bones, muscles, nerves, and blood vessels of the head and neck as well as their relationship to the corresponding body systems. Students will also identify and describe oral, head and neck pathologies, conditions, diagnostic tools, treatments, and professions. While this course is identified as dental, it is well suited for all students interested in pursuing any of the professions involved with the head and neck such as dentistry, otolaryngology, optometry, radiology, audiology, neurology, reconstructive/plastic surgery.
Program of Study: Diagnostic and Therapeutic Services

Dental Equipment and Procedures

Course Code: N1302130
Course Abbreviation: DENTEP
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Introduction to Dental Science and Dental Anatomy and Physiology
Recommended Corequisite: None

This course provides the foundational content knowledge, skills, and hands-on practice of essential dental assisting skills and chairside dental assisting functions. Topics include examination and assessment procedures, equipment and materials, instrumentation techniques, and treatment procedures and skills performed by a clinical dental assistant during restorative procedures. The hands-on practice will prepare students for clinical experiences.
Program of Study: Diagnostic and Therapeutic Services

Diesel Equipment Technology I

Course Code: 13040150
Course Abbreviation: DIEQTEC1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Diesel Equipment Technology I includes knowledge of the function and maintenance of diesel systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the knowledge, skills, and technologies required for employment in transportation systems.
Program of Study: Diesel and Heavy Equipment Maintenance and Commercial Driver

Diesel Equipment Technology II

Course Code: 13040160
Course Abbreviation: DIEQTEC2
Credits: 2
Level: 3
Prerequisite: Diesel Equipment Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Diesel Equipment Technology II includes knowledge of the function, diagnosis, and service of diesel equipment systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the advanced knowledge, skills, and technologies required for employment in transportation systems.
Program of Study: Diesel and Heavy Equipment Maintenance and Commercial Driver

Diesel Equipment Technology II + Advanced Transportation Systems Laboratory

Course Code: 13040170
Course Abbreviation: DIEQLAB2
Credits: 3
Level: 3
Prerequisite: Diesel Equipment Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Diesel Equipment Technology II includes knowledge of the function, diagnosis, and service of diesel equipment systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the advanced knowledge, skills, and technologies required for employment in transportation systems.
Program of Study: Diesel and Heavy Equipment Maintenance and Commercial Driver

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Digital Art and Animation

Course Code: 03580500
Course Abbreviation: TADGAA
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended prerequisite: Art, Level I
Recommended Corequisite: None

Digital Art and Animation consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Note: This course satisfies the high school fine arts graduation requirement.
Program of Study: Graphic Design and Interactive Media

Digital Audio Technology I

Course Code: 13009950
Course Abbreviation: DATECH1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Arts, Audio/Video Technology, and Communications or Digital Media or both Audio/Video Production I and Audio/Video Production I Lab
Recommended Corequisite: None

Digital Audio Technology I was designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Digital Audio Technology I does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis. This course can also be paired with Digital Media. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.
Program of Study: Digital Communications

Digital Audio Technology II

Course Code: 13009960
Course Abbreviation: DATECH2
Credit: 1
Level: 3
Prerequisite: Digital Audio Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Digital Audio Technology II was designed to provide additional opportunities and skill sets for students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, and music production and live sound. Digital Audio Technology II does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis. This course can also be paired with Digital Media. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.
Program of Study: Digital Communications

Digital Communications in the 21st Century

Course Code: 03580610
Course Abbreviation: TADGC
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Digital Communications in the 21st Century will prepare students for the societal demands of increased civic literacy, independent working environments, global awareness, and the mastery of a base set of analysis and communication skills. Students will be expected to design and present an effective product based on well-researched issues in order to thoughtfully propose suggested solutions to authoritative stakeholders. The outcome of the process and product approach is to provide students an authentic platform to demonstrate effective application of multimedia tools within the contexts of global communication and collaborative communities and appropriately share their voices to affect change that concerns their future. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Program of Study: Digital Communications

Digital Design and Media Production

Course Code: 03580400
Course Abbreviation: TADGDMP
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Programs of Study: Digital Communications, Graphic Design and Interactive Media, and Marketing and Sales

Digital Electronics

Course Code: 13037600
Course Abbreviation: DIGELC
Credit: 1
Level: 3
Prerequisites: Algebra I and Geometry
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discreet voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.
Note: This course satisfies a high school mathematics graduation requirement.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), Drone (Unmanned Vehicle) (Regional), Electrical Engineering, Electronics Technology (Regional), Engineering Foundations, and Renewable Energy

Digital Forensics

Course Code: 03580360
Course Abbreviation: TADGFR
Credit: 1
Level: 3
Prerequisite: Foundations of Cybersecurity
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Digital forensics is a critical discipline concerned with analyzing anomalous activity on computers, networks, programs, and data. As a discipline, it has grown with the expansion of a globally connected digital society. As computing has become more sophisticated, so too have the abilities to access systems and sensitive information. Digital forensics professionals investigate and craft appropriate responses to disruptions to governments, organizations, and individuals. Whereas cybersecurity takes a proactive approach to information assurance to minimize harm, digital forensics takes a reactive approach to incident response.
Program of Study: Cybersecurity

Digital Image Processing

Course Code: N1303766
Course Abbreviation: DGIP
Credit: 1
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Algebra I, Geometry, and Algebra II
Recommended Corequisite: None

This course introduces the topic of how images (pictures) are represented in a way that computers can store them in memory, manipulate their pixels, display them, and analyze their contents. Digital images are processed by programs written in scientific computing software environments. The following image processing operations will be studied: enhancement, filtering, reconstruction, compression, object detection, and classification.
This course is not in a program of study

Digital Media

Course Code: 13027800
Course Abbreviation: DIMEDIA
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.
Programs of Study: Graphic Design and Interactive Media, Marketing and Sales, and Web Development

Dimensions of Diplomacy

Course Code: N1301820
Course Abbreviation: DIDIPL
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Government and Public Administration, Political Science I, and/or Foreign Service and Diplomacy; two levels of languages other than English (LOTE)
Recommended Corequisites: Statistics and/or Psychology

Dimensions of Diplomacy is designed to allow students to master the Thirteen Dimensions that candidates interested in careers with the United States Department of State must demonstrate during the selection process for internships, scholarships, fellowships, and career opportunities. Students will develop global competencies, problem-solving, decision-making, professional communication and negotiation skills applicable to all clusters and professions but particularly relevant to international diplomacy and careers with multinational firms.
Program of Study: Government and Public Administration

Disaster Response

Course Code: N1303011
Course Abbreviation: DISRESP
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Disaster Response includes basic training of students in disaster survival and rescue skills that would improve the ability of citizens to survive until responders or other assistance could arrive. Students will receive education, training, and volunteer service to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues and disasters of all kinds.
Programs of Study: Diagnostic and Therapeutic Services, and Fire Science

Discrete Mathematics for Computer Science

Course Code: 03580370
Course Abbreviation: TADISMA
Credit: 1
Level: 3
Prerequisite: Algebra II
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Discrete Mathematics for Computer Science provides the tools used in most areas of computer science. Exposure to the mathematical concepts and discrete structures presented in this course is essential in order to provide an adequate foundation for further study. Discrete Mathematics for Computer Science is generally listed as a core requirement for Computer Science majors. Course topics are divided into six areas: sets, functions, and relations; basic logic; proof techniques; counting basics; graphs and trees; and discrete probability. Mathematical topics are interwoven with computer science applications to enhance the students' understanding of the introduced mathematics. Students will develop the ability to see computational problems from a mathematical perspective. Introduced to a formal system (propositional and predicate logic) upon which mathematical reasoning is based, students will acquire the necessary knowledge to read and construct mathematical arguments (proofs), understand mathematical statements (theorems), and use mathematical problem-solving tools and strategies. Students will be introduced to discrete data structures such as sets, discrete functions, and relations and graphs and trees. Students will also be introduced to discrete probability and expectations. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Programs of Study: Cybersecurity, and Programming and Software Development

Distribution and Logistics

Course Code: 13040300
Course Abbreviation: DISTLGS
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Distribution and Logistics
Recommended Corequisite: None

Distribution and Logistics is designed to provide training for entry-level employment in distribution and logistics. This course focuses on the business planning and management aspects of distribution and logistics. To prepare for success, students will learn, reinforce, experience, apply, and transfer their knowledge and skills related to distribution and logistics.
Program of Study: Distribution, Logistics, and Warehousing

Diversified Manufacturing l

Course Code: 13032650
Course Abbreviation: DIMANU1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I
Recommended Corequisite: None

In Diversified Manufacturing I, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing systems allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. Diversified Manufacturing I allows students the opportunity to understand the process of mass production by using a wide variety of materials and manufacturing techniques. Knowledge about career opportunities, requirements, and expectations and the development of skills prepare students for workplace success.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), and Manufacturing Technology

Diversified Manufacturing ll

Course Code: 13032660
Course Abbreviation: DIMANU2
Credit: 1
Level: 3
Prerequisite: Diversified Manufacturing l
Corequisite: None
Recommended Prerequisite: Algebra I
Recommended Corequisite: None

In Diversified Manufacturing II, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing systems allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. Diversified Manufacturing II allows students the opportunity to understand the process of mass production by using a wide variety of materials and manufacturing techniques. Knowledge about career opportunities, requirements, and expectations and the development of skills prepare students for workplace success.
Program of Study: Manufacturing Technology

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Dollars and Sense

Course Code: 13024300
Course Abbreviation: DOLLARSE
Credit: .5
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services
Recommended Corequisite: None

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers.
Programs of Study: Family and Community Services, and Health and Wellness

Electrical Technology I

Course Code: 13005600
Course Abbreviation: ELECTEC1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Architecture or Principles of Construction
Recommended Corequisite: None

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.
Programs of Study: Electrical, Industrial Maintenance, and Renewable Energy

Electrical Technology II

Course Code: 13005700
Course Abbreviation: ELECTEC2
Credits: 2
Level: 3
Prerequisite: Electrical Technology I
Corequisite: None
Recommended Prerequisite: Principles of Architecture or Principles of Construction
Recommended Corequisite: None

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.
Programs of Study: Electrical and Renewable Energy

Emergency Medical Technician–Basic

Course Code: N1303015 **Course Abbreviation**: EMTB
Credits: 2 **Level**: 3
Prerequisite: Biology
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security; and Anatomy and Physiology
Recommended Corequisite: None

Emergency Medical Technician (EMT)–Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. The EMT–Basic course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course.
Programs of Study: Diagnostic and Therapeutic Services, and Fire Science

Energy and Natural Resource Technology

Course Code: 13001100 **Course Abbreviation**: ENGNRT
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources career cluster
Recommended Corequisite: None

Energy and Natural Resource Technology examines the interrelatedness of environmental issues and production agriculture. Students will evaluate the environmental benefits provided by sustainable resources and green technologies. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences. To prepare for careers in environmental service systems, students must attain academic skills and knowledge, acquire advanced technical knowledge and skills related to environmental service systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Programs of Study: Environmental and Natural Resources, and Renewable Energy

Energy and Natural Resource Technology + Agricultural Laboratory and Field Experience

Course Code: 13001110 **Course Abbreviation**: ENGNRTLAB
Credits: 2 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: A minimum of one credit from the courses in the Agriculture, Food, and Natural Resources career cluster
Recommended Corequisite: None

Energy and Natural Resource Technology examines the interrelatedness of environmental issues and production agriculture. Students will evaluate the environmental benefits provided by sustainable resources and green technologies. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences. To prepare for careers in environmental service systems, students must attain academic skills and knowledge, acquire advanced technical knowledge and skills related to environmental service systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Programs of Study: Environmental and Natural Resources

Energy and Power of Transportation Systems

Course Code: 13039300 **Course Abbreviation**: EPTSYS
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Transportation Systems
Recommended Corequisite: None

Energy and Power of Transportation Systems will prepare students to meet the expectations of employers in this industry and to interact and relate to others. Students will learn the technologies used to provide products and services in a timely manner. The businesses and industries of the Transportation, Distribution, and Logistics career cluster are rapidly expanding to provide new career and career advancement opportunities. Performance requirements will include academic and technical skills. Students will need to understand the interaction between various vehicle systems, including engines, transmissions, brakes, fuel, cooling, and electrical. Students will also need to understand the logistics used to move goods and services to consumers, as well as the components of transportation infrastructure.
Program of Study: Automotive and Collision Repair

Engineering Applications of Computer Science Principles

Course Code: 13027540 **Course Abbreviation**: ENGRAPCS
Credit: 1 **Level**: 3
Prerequisites: Algebra I and at least one credit in a course from the Information Technology career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Engineering Applications of Computer Science Principles teaches rigorous engineering design practices, engineering habits of mind, and the foundational tools of computer science. Students apply core computer science principles to solve engineering design challenges that cannot be solved without such knowledge and skills. Students use a variety of computer software and hardware applications to complete projects.
Program of Study: Cybersecurity

Engineering Design and Presentation

Course Code: 13036500 **Course Abbreviation**: ENGRDP
Credit: 1 **Level**: 3
Prerequisites: Algebra I and at least one credit in a course from the Engineering career cluster
Corequisite: None
Recommended Prerequisite: Principles of Applied Engineering
Recommended Corequisite: None

Students enrolled in Engineering Design and Presentation demonstrate knowledge and skills of the design process as it applies to engineering fields and project management using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Through implementation of the design process, students transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and learn what is required to gain and maintain employment in these areas.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, Mechanical and Aerospace Engineering, and Robotics and Automation Technology

Engineering Design and Problem Solving

Course Code: 13037300 **Course Abbreviation**: ENGDPRS
Credit: 1 **Level**: 4
Prerequisites: Algebra I, Geometry, and at least one credit in a Level 2 or higher course in the Engineering career cluster
Corequisite: None
Recommended Prerequisite: Engineering Science, chemistry, or physics
Recommended Corequisite: Engineering Science, chemistry, or physics

The Engineering Design and Problem Solving course extends students' problem solving skills by identifying needs and then devising solutions using scientific and engineering practices. Students apply prior knowledge to develop a multi-system product or solution for a complex problem. Students demonstrate project management skills by collaborating as part of a team, conducting research, and analyzing data that culminates in a comprehensive report and presentation. Technical drawings, models, and prototypes are created using the appropriate tools, materials, and techniques. Structured decision-making processes are used to select and justify a preferred, multi-system solution to an authentic problem. Students develop, implement, and document repeated trials of experiments and tests using scientific and engineering practices to determine whether a prototype meets design requirements.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, Mechanical and Aerospace Engineering, and Renewable Energy

Engineering Design Process

Course Code: 12756001 **Course Abbreviation**: ENGRDSP
Credit: 1 **Level**: 1
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: Principles of Applied Engineering
Recommended Corequisite: None

Engineering Design Process is an engineering course applicable to all engineering fields. Students use an iterative engineering design process to solve problems, make decisions, and manage a project. Professional practices are addressed, including development of a problem statement, maintenance of documentation, use of an engineering notebook, research, project management, internal and external communication, and creation of technical drawings and prototypes. The student delivers a professional presentation detailing the experience of working through each step of the engineering design process.
Programs of Study: Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

Engineering Mathematics

Course Code: 13036700 **Course Abbreviation**: ENGMATH
Credit: 1 **Level**: 3
Prerequisite: Algebra ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Engineering Mathematics is a course where students solve and model design problems. Students will use a variety of mathematical methods and models to represent and analyze problems that represent a range of real-world engineering applications such as robotics, data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and computer programming.
Note: This course satisfies a high school mathematics graduation requirement.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

Engineering Project Management

Course Code: 12756060
Course Abbreviation: ENGRMGMT
Credit: 1
Level: 2
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: English II
Recommended Corequisite: None

Students enrolled in Engineering Project Management develop cursory knowledge and essential skills to lead an engineering team through the development and construction of a project. Students assess project documentation for compliance with best management practices. They engage in project planning, risk management, team management, and stakeholder communication to ensure project completion, adherence to safety guidelines, and continuous improvement.
Programs of Study: Engineering Foundations, and Civil Engineering

Engineering Science

Course Code: 13037500
Course Abbreviation: ENGSCIEN
Credit: 1
Level: 3
Prerequisites: Algebra I, one credit in biology, and at least one credit in a course from the Engineering career cluster
Corequisite: None
Recommended Prerequisite: Geometry, Integrated Physics and Chemistry (IPC), one credit in chemistry, or one credit in physics
Recommended Corequisite: None

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Drone (Unmanned Vehicle) (Regional), Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

Entrepreneurship I

Course Code: 13011101
Course Abbreviation: ENTPR1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

In Entrepreneurship I, students will gain the knowledge and skills needed to become an entrepreneur in a free enterprise system. Students will learn the key concepts necessary to begin and operate a business. The primary focus of the course is to help students identify the types and selection criteria of business structures, understand the components of a business plan, determine the feasibility of an idea using research, and develop and present a business concept. In addition, students will understand the basics of management, accounting, finance, marketing, risk, and product development.
Programs of Study: Accounting and Financial Services, Agriculture Business, Leadership, and Communications, Animal Science, Automotive and Collision Repair, Business Management, Carpentry, Cosmetology and Personal Care Services (Regional), Culinary Arts, Diesel and Heavy Equipment Maintenance and Commercial Driver, Digital Communications, Electrical, Entrepreneurship, Exercise Science, Wellness, and Restoration, Family and Community Services, Graphic Design and Interactive Media, Health and Wellness, HVAC and Sheet Metal, Information Technology Support and Services, Lodging and Resort Management, Manufacturing Technology, Marketing and Sales, Masonry, Networking Systems, Plant Science, Plumbing and Pipefitting, Printing and Imaging (Regional), Programming and Software Development, Real Estate, Travel, Tourism, and Attractions, Web Development, and Welding.

Entrepreneurship II

Course Code: 13011102
Course Abbreviation: ENTPR2
Credit: 1
Level: 3
Prerequisite: Entrepreneurship I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Entrepreneurship II, students gain the knowledge and skills needed to become successful entrepreneurs within an innovative marketplace in a free enterprise system. The goal and outcome of the course are for students to have a business launched by the end of the course or have the tools necessary to launch and operate a business. In this course, students learn and initiate the process of taking a business plan from idea to implementation. Students are encouraged to work in close cooperation with local industry leaders and community members to develop ideas and objectives, complete a business planning tool, pitch for funding, and register with governmental agencies.
Program of Study: Entrepreneurship

Environmental Engineering

Course Code: 12756010
Course Abbreviation: ENVRENGR
Credit: 1
Level: 3
Prerequisite: At least one credit in a course from the Engineering or Energy career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Environmental Engineering, students research, develop, and design solutions related to water, land, and energy problems, with consideration to ethics and regulations. Using technology and the engineering design process, students devise innovative solutions to address current and future engineering challenges.
Programs of Study: Engineering Foundations, and Renewable Energy

Equine Science

Course Code: 13000500
Course Abbreviation: EQUINSCI
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

In Equine Science, students acquire knowledge and skills related to the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to equine systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Animal Science

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Esthetics

Course Code: N1302533
Course Abbreviation: ESTHE
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students enrolled in Esthetics will explore the practical skills of a skin care professional, including introduction to the treatment environment, basic facial treatments, hair removal, corrective skin care treatments, makeup application, special effects makeup application and the technology likely to be utilized in a salon, spa, or clinical setting.
Program of Study: Cosmetology and Personal Care Services (Regional)

Event and Meeting Planning

Course Code: 13022730
Course Abbreviation: INTMTGPL
Credit: 1
Level: 3
Prerequisite: At least one credit in a course from the Hospitality and Tourism career cluster
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism, Hotel Management or Travel and Tourism Management
Recommended Corequisite: None

Event and Meeting Planning introduces students to the concepts and topics necessary to understand the meetings, events, expositions, and conventions (MEEC) industry. The course will review the roles of the organizations and people involved in the businesses that comprise the MEEC industry.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Marketing and Sales

Family and Community Services

Course Code: 13024900
Course Abbreviation: FAMCOSRV
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services
Recommended Corequisite: None

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.
Programs of Study: Family and Community Services, and Health and Wellness

Fashion Design I

Course Code: 13009300
Course Abbreviation: FASHDSN1
Credit: 1
Level: 2
Prerequisites: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications
Recommended Corequisite: Fashion Design I Lab

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.
Program of Study: Graphic Design and Interactive Media

Fashion Design I + Fashion Design I Lab

Course Code: 13009310
Course Abbreviation: FASLAB1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications
Recommended Corequisite: None

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.
Program of Study: Graphic Design and Interactive Media

Fashion Design II

Course Code: 13009400
Course Abbreviation: FASHDSN2
Credit: 1
Level: 3
Prerequisite: Fashion Design I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Fashion Design II Lab

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.
Program of Study: Graphic Design and Interactive Media

Fashion Design II + Fashion Design II Lab

Course Code: 13009410
Course Abbreviation: FASLAB2
Credits: 2
Level: 3
Prerequisite: Fashion Design I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.
Program of Study: Graphic Design and Interactive Media

Fashion Marketing

Course Code: 13034300
Course Abbreviation: FASHMKTG
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities.
Program of Study: Marketing and Sales

Federal Law Enforcement and Protective Services

Course Code: 13029800
Course Abbreviation: FEDLEPS
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Federal Law Enforcement and Protective Services provides the knowledge and skills necessary to prepare for certification in security services for federal law enforcement and protective services. The course provides an overview of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information, to ensure computer security, to provide information assurance, and to prevent cybercrime.
Programs of Study: Government and Public Administration, and Law Enforcement

Financial Analysis

Course Code: 13016800
Course Abbreviation: FINANAL
Credit: 1
Level: 3
Prerequisite: Accounting I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.
Programs of Study: Accounting and Financial Services, and Real Estate

Financial Mathematics

Course Code: 13018000
Course Abbreviation: FINMATH
Credit: 1
Level: 2
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.
Note: This course satisfies a high school mathematics graduation requirement.
Programs of Study: Accounting and Financial Services, and Real Estate

Firefighter I

Course Code: 13029900
Course Abbreviation: FIRE1
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety.
Program of Study: Fire Science

Firefighter ll

Course Code: 13030000
Course Abbreviation: FIRE2
Credits: 3
Level: 4
Prerequisite: Firefighter l
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Firefighter II is the second course in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Students will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems.
Program of Study: Fire Science

Floral Design

Course Code: 13001800
Course Abbreviation: FLORAL
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Floral Design is designed to develop students' ability to identify and demonstrate the elements and principles of floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions of and appreciation for the contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic knowledge and skills, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Note: This course satisfies the fine arts graduation requirement.
Program of Study: Plant Science

Floral Design + Agricultural Laboratory and Field Experience

Course Code: 13001810
Course Abbreviation: FLORALAB
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Floral Design is designed to develop students' ability to identify and demonstrate the elements and principles of floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions of and appreciation for the contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic knowledge and skills, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Note: This course satisfies the fine arts graduation requirement.
Program of Study: Plant Science

Fluid Mechanics

Course Code: 12756015 **Course Abbreviation**: FLMECH
Credit: 1 **Level**: 3
Prerequisites: At least one credit in a course from the Engineering career cluster and physics or chemistry
Corequisite: None
Recommended Prerequisite: Algebra II
Recommended Corequisite: Algebra II

Students enrolled in Fluid Mechanics investigate the behavior and properties of fluids, including liquids and gasses. Through hands-on experiments, simulations, and real-world examples, students learn about concepts such as viscosity, pressure, buoyancy, and flow dynamics. Students explore how fluids interact with solid objects, understanding phenomena like lift and drag, which are critical to the operation of ships, airplanes, and vehicles. Students engage in case studies and problem-solving activities to gain insights into how fluid mechanics shape our everyday lives, technological advancements, and industrial applications. This course prepares students to progress in careers in engineering and scientific disciplines such as aerospace, mechanical, civil, chemical, materials, and physics.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Engineering Foundations

Food Processing

Course Code: 13001400 **Course Abbreviation**: FOODPRO
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Food Technology and Safety
Recommended Corequisite: None

Food Processing focuses on the food processing industry with special emphasis on the handling, processing, and marketing of food products. To prepare for careers in food products and processing systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.
Programs of Study: Culinary Arts, and Food Science and Technology

Food Processing + Agricultural Laboratory and Field Experience

Course Code: 13001410 **Course Abbreviation:** FOODPRLAB
Credits: 2 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Food Technology and Safety
Recommended Corequisite: None

Food Processing focuses on the food processing industry with special emphasis on the handling, processing, and marketing of food products. To prepare for careers in food products and processing systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.
Programs of Study: Culinary Arts, and Food Science and Technology

Food Science

Course Code: 13023000 **Course Abbreviation**: FOODSCI
Credit: 1 **Level**: 4
Prerequisites: One credit in biology, one credit in chemistry, and at least one credit in a Level 2 or higher course from the Hospitality and Tourism or Agriculture, Food, and Natural Resources career clusters
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism
Recommended Corequisite: None

In Food Science, students examine the nature and properties of foods, food microbiology, and the principles of science in food production, processing, preparation, and preservation; use scientific methods to conduct laboratory and field investigations; and make informed decisions using critical thinking and scientific problem solving. This course provides students a foundation for further study that leads to occupations in food and beverage services; the health sciences; agriculture, food, and natural resources; and human services.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Culinary Arts, Food Science and Technology, and Health and Wellness

Food Technology and Safety

Course Code: 13001300 **Course Abbreviation**: FOODTS
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Food Technology and Safety examines the food technology industry as it relates to food production, handling, and safety. To prepare for careers in value-added and food processing systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to value-added and food processing and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Programs of Study: Culinary Arts, and Food Science and Technology

Food Technology and Safety + Agricultural Laboratory and Field Experience

Course Code: 13001310 **Course Abbreviation**: FOODTLAB
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: None
Recommended Corequisite: None

Food Technology and Safety examines the food technology industry as it relates to food production, handling, and safety. To prepare for careers in value-added and food processing systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to value-added and food processing and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Food Science and Technology

Foreign Service and Diplomacy

Course Code: 13018900 **Course Abbreviation**: FORSRVD
Credit: 1 **Level**: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Government and Public Administration or Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Foreign Service and Diplomacy provides the opportunity for students to investigate the knowledge and skills necessary for careers in foreign service. The course includes law, history, media communication, and international relations associated with the diplomatic environment.
This course is not in a program of study

Forensic Psychology

Course Code: N1303012 **Course Abbreviation**: FORENSPSY
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Law Enforcement I and Psychology
Recommended Corequisite: None

Forensic psychology is found at the intersection between psychology and the criminal justice system. It involves understanding criminal law in the relevant jurisdictions in order to be able to interact within the criminal justice system. It utilizes and applies basic skills developed in psychology and criminal scenarios resulting in a structured and scientific approach to investigative analysis; thereby, enabling police and law enforcement officials to predict criminal activity via scientific analysis rather than intuition. Students will learn basic structured psychological investigative techniques in question building, interviewing, criminal behavior characteristics, truth detection methodology, research methods, statistical analysis and probability forecasting.
Program of Study: Law Enforcement

Forensic Science

Course Code: 13029500 **Course Abbreviation**: FORENSCI
Credit: 1 **Level**: 4
Prerequisite: One credit in biology, one credit in chemistry, Integrated Physics and Chemistry (IPC), or physics
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Forensic Science is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Law Enforcement, and Legal Studies

Forestry and Woodland Ecosystems

Course Code: 13001700
Course Abbreviation: FWECO
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Forestry and Woodland Ecosystems examines current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment.
Program of Study: Environmental and Natural Resources

Forestry and Woodland Ecosystems + Agricultural Laboratory and Field Experience

Course Code: 13001710
Course Abbreviation: FWECOLAB
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Forestry and Woodland Ecosystems examines current management practices for forestry and woodlands. Special emphasis is given to management as it relates to ecological requirements and how these practices impact the environment.
Program of Study: Environmental and Natural Resources

Foundations of Business Communication and Technologies

Course Code: 13011400
Course Abbreviation: FDNBUSI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Touch System Data Entry
Recommended Corequisite: Business Lab

In Foundations of Business Communication and Technologies, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.
Programs of Study: Accounting and Financial Services, Business Management, Entrepreneurship, and Health Informatics

Foundations of Business Communication and Technologies + Business Lab

Course Code: 13011410
Course Abbreviation: FDNBULAB
Credits: 2
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Touch System Data Entry
Recommended Corequisite: None

In Foundations of Business Communication and Technologies, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.
Programs of Study: Accounting and Financial Services, Business Management, Entrepreneurship, and Health Informatics

Foundations of Court Reporting

Course Code: N1303017
Course Abbreviation: FDCRTREP
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: English I and Principles of Government and Public Administration
Recommended Corequisite: None

This course will enable the student to identify the parts of a computer-compatible steno machine and demonstrate proficiency in creating reports using the specialized chorded steno machine keyboard functions and computer software. The students will evaluate the workings of real-time reporting information systems and communications technology. The student will acquire the ability to write conflict-free real-time translation theory on a computer-compatible steno machine, using proper punctuation and grammar. The student will be able to create and organize a personal dictionary for brief form writing the most common words and phrases and a phonetic-based system for writing all words. The student will build reading and writing skills on literary material, jury charge material, and question/answer testimony to navigate the inner workings of the court system. These materials include but are not limited to courtroom filings, subpoenas, affidavits, and all other documents needing transcription. Additionally, students will demonstrate proper dictation practices required for cognitive theory translation and speed-accuracy development. The central focus of the proposed course to provide students the opportunity to gain thorough knowledge and expertise in the field of legal court reporting. By completing the course, students would be able to build upon their foundation of learning to become licensed court reporters and obtain meaningful work in a high-demand area.
Program of Study: Legal Studies

Foundations of Cybersecurity

Course Code: 03580850
Course Abbreviation: TAFCYB
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In the Foundations of Cybersecurity course, students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity. A variety of courses are available to students interested in this field. Foundations of Cybersecurity may serve as an introductory course in this field of study.
Program of Study: Cybersecurity

Foundations of Energy

Course Code: 13040503
Course Abbreviation: FOUNDEN
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Foundations of Energy, students will conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of energy. Students will study a variety of topics that include energy transformation, the law of conservation of energy, energy efficiency, interrelationships among energy resources and society, and sources and flow of energy through the production, transmission, processing, and use of energy. Students will apply these concepts and perform investigations and experiments at least 40% of the time using safe practices.
Programs of Study: Oil and Gas Exploration and Production, Refining and Chemical Processes, and Renewable Energy

Foundations of Restaurant Management

Course Code: 13022720
Course Abbreviation: RSTMGMT
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism
Recommended Corequisite: None

Foundations of Restaurant Management provides students with a foundation to understand basic culinary skills and food service management, along with current food service industry topics and standards. Building on prior instruction, this course provides introductory insight into critical thinking, financial analysis, industry technology, social media, customer or client awareness, and leadership in the food service industry. Students will gain an understanding of restaurant operations and the importance of communicating effectively to diverse audiences for different purposes and situations in food service operations and management. Students will learn how the front of the house and the back of the house of restaurant management operate and collaborate and will obtain value-added certifications in the industry to help launch themselves into food service careers.
Programs of Study: Culinary Arts, and Travel, Tourism, and Attractions

Foundations of User Experience

Course Code: 13027525
Course Abbreviation: FNDUX
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Foundations of User Experience, students analyze and assess current trends in a career field that creates meaningful, approachable, and compelling experiences for users of an array of products, services, and/or initiatives of companies, governments, and organizations. Students gain knowledge of introductory observation and research skills, basic design thinking and applied empathy methodologies, collaborative problem-solving and ideation, and interaction design and solution development. The knowledge and skills acquired from this course enable students to identify real-world problems through research and data-driven investigation and to design solutions while participating in collaborative problem solving. Students are introduced to agile practices and methodologies to develop skills to take solutions from conceptual sketch to digital designs using professional software tools. Students explore how to improve the quality of user interactions and perceptions of products, experiences, and any related services.
Programs of Study: Entrepreneurship, Graphic Design and Interactive Media, Retail Management (Regional), and Web Development

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Fundamentals of Computer Science

Course Code: 03580140
Course Abbreviation: TAFCS
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems, Programming and Software Development, and Web Development

Fundamentals of Real Estate

Course Code: N1301120
Course Abbreviation: FUNDRE
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course contains the curriculum necessary to complete the pre-licensure education requirements of the Texas Real Estate Commission (TREC) to obtain a real estate salesperson license. Includes the following TREC course materials: Principles of Real Estate I and II, Law of Contracts, Law of Agency, Real Estate Finance, and Promulgated Contract Forms.
Programs of Study: Marketing and Sales, and Real Estate

Game Programming and Design

Course Code: 03580380
Course Abbreviation: TAGMPD
Credit: 1
Level: 2
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Game Programming and Design will foster student creativity and innovation by presenting students with opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve gaming problems. Through data analysis, students will include the identification of task requirements, plan search strategies, and use programming concepts to access, analyze, and evaluate information needed to design games. By acquiring programming knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will create a computer game that is presented to an evaluation panel. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Programs of Study: Graphic Design and Interactive Media, and Programming and Software Development

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General Employability Skills

Course Code: N1270153
Course Abbreviation: GEMPLS
Credit: 1
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.
This course is not in a program of study

Geographic Information Systems (GIS)

Course Code: 13027545
Course Abbreviation: GISYS
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications, Principles of Information Technology, Physics for Engineers, or Principles of Applied Engineering
Recommended Corequisite: None

The Geographic Information Systems (GIS) course employs an analytic process using industry standard software to find trends and patterns in collected data. Whether collecting data first-hand or from reputable websites, GIS aims to use scientific methods to find solutions to various problems and issues.
Programs of Study: Civil Engineering, Geospatial Engineering and Land Surveying (Regional), and Information Technology Support and Services

Geographic Information Systems (GIS) for Agriculture

Course Code: 13002450
Course Abbreviation: GISAGRI
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Geographic Information Systems for Agriculture is a course designed to provide students with the academic and technical knowledge and skills that are required to pursue a career as a precision agriculture specialist, a crop specialist, an independent crop consultant, a nutrient management specialist, a physical scientist, a precision agronomist, a precision farming coordinator, a research agricultural engineer, or a soil fertility specialist. Students will learn to use computers to develop or analyze maps of remote sensing to compare physical topography with data on soils, fertilizer, pests, or weather.
Program of Study: Agricultural Technology and Mechanical Systems

Global Business

Course Code: 13011800
Course Abbreviation: GLOBBUS
Credit: .5
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.
Programs of Study: Business Management, and Travel, Tourism, and Attractions

Graphic Design and Illustration I

Course Code: 13008800
Course Abbreviation: GRAPHDI1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications
Recommended Corequisite: Graphic Design and Illustration I Lab

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.
Programs of Study: Graphic Design and Interactive Media, and Print and Imaging

Graphic Design and Illustration I + Graphic Design and Illustration I Lab

Course Code: 13008810
Course Abbreviation: GRDLAB1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Arts, Audio/Video Technology, and Communications
Recommended Corequisite: None

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.
Programs of Study: Graphic Design and Interactive Media, and Print and Imaging

Graphic Design and Illustration II

Course Code: 13008900
Course Abbreviation: GRAPHDI2
Credit: 1
Level: 3
Prerequisite: Graphic Design and Illustration I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Graphic Design and Illustration II Lab

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.
Program of Study: Graphic Design and Interactive Media

Graphic Design and Illustration ll + Graphic Design and Illustration ll Lab

Course Code: 13008910 **Course Abbreviation**: GRDLAB2
Credits: 2 **Level**: 3
Prerequisite: Graphic Design and Illustration l
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.
Program of Study: Graphic Design and Interactive Media

Greenhouse Operation and Production

Course Code: 13002050 **Course Abbreviation**: GREOP
Credit: 1 **Level**: 2
Prerequisite: None
Corequisites: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Greenhouse Operation and Production is designed for students to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural and controlled environment agricultural systems, students must attain academic knowledge and skills, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Plant Science

Greenhouse Operation and Production + Agricultural Laboratory and Field Experience

Course Code: 13002060 **Course Abbreviation**: GREOPLAB
Credit: 2 **Level**: 2
Prerequisite: None
Corequisites: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Greenhouse Operation and Production is designed for students to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural and controlled environment agricultural systems, students must attain academic knowledge and skills, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Plant Science

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Health Informatics

Course Code: 13020960 **Course Abbreviation**: HLTHINF
Credit: 1 **Level**: 3
Prerequisite: Medical Terminology
Corequisite: None
Recommended Prerequisite: Principles of Health Science and Business Information Management I
Recommended Corequisite: None

The Health Informatics course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. Healthcare information technology has increased demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries. This course will include a focus on billing and coding.
Program of Study: Health Informatics

Health Science Theory

Course Code: 13020400 **Course Abbreviation**: HLTHSCI
Credit: 1 **Level**: 3
Prerequisite: One credit in biology and at least one credit in a course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: Medical Terminology
Recommended Corequisite: Health Science Clinical

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will become familiar with industry-based standards for documenting and maintaining medical information; research industry employment requirements, including education, certification, and licensing requirements; and evaluate ethical and legal responsibilities of health science professionals. Students will employ hands-on experiences for continued clinical knowledge and skill development.
Programs of Study: Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Health Informatics, and Nursing Science

Health Science Theory + Health Science Clinical

Course Code: 13020410 **Course Abbreviation**: HLSCLIN
Credits: 2 **Level**: 3
Prerequisites: One credit in biology and at least one credit in a course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: Medical Terminology
Recommended Corequisite: None

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will become familiar with industry-based standards for documenting and maintaining medical information; research industry employment requirements, including education, certification, and licensing requirements; and evaluate ethical and legal responsibilities of health science professionals. Students will employ hands-on experiences for continued clinical knowledge and skill development. Health Science Clinical course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.
Programs of Study: Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Health Informatics, and Nursing Science

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Healthcare Administration and Management

Course Code: 13020962 **Course Abbreviation**: HLTHAM
Credit: 1 **Level**: 3
Prerequisite: Medical Terminology
Corequisite: None
Recommended Prerequisites: Principles of Health Science and Business Information Management I
Recommended Corequisite: None

Healthcare Administration and Management is designed to familiarize students with the concepts related to healthcare administration as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.
Program of Study: Health Informatics

Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology l

Course Code: 13005800 **Course Abbreviation**: HVACREF1
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Architecture, Principles of Construction, or Construction Technology l
Recommended Corequisite: None

In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I, students will gain knowledge and skills needed to enter the industry as technicians in the HVAC and refrigeration industry or building maintenance industry, prepare for a postsecondary degree in a specified field of construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, principles of HVAC theory, use of tools, codes, and installation of HVAC and refrigeration equipment.
Programs of Study: HVAC and Sheet Metal, and Industrial Maintenance

Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology ll

Course Code: 13005900 **Course Abbreviation**: HVACREF2
Credits: 2 **Level**: 3
Prerequisites: Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology l
Corequisite: None
Recommended Prerequisite: Principles of Architecture or Principles of Construction
Recommended Corequisite: None

In Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II, students will gain advanced knowledge and skills needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, use of tools, codes, installation of commercial HVAC equipment, heat pumps, troubleshooting techniques, various duct systems, and maintenance practices.
Program of Study: HVAC and Sheet Metal

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Horticultural Science

Course Code: 13002000 **Course Abbreviation**: HORTISCI
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

In Horticultural Science, students develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural industry systems, students must attain academic knowledge and skills, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Plant Science

Horticultural Science + Agricultural Laboratory and Field Experience

Course Code: 13002010 **Course Abbreviation**: HORSCILAB
Credits: 2 **Level**: 3
Prerequisite: At least one credit in a course from the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

In Horticultural Science, students develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural industry systems, students must attain academic knowledge and skills, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Plant Science

Hospitality Services

Course Code: 13022800 **Course Abbreviation**: HOSPSRVS
Credits: 2 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Hospitality and Tourism, Hotel Management, and Travel and Tourism Management
Recommended Corequisite: None

Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.
Programs of Study: Lodging and Resort Management, and Travel, Tourism, and Attractions

Hotel Management

Course Code: 13022300
Course Abbreviation: HOTELMGT
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism
Recommended Corequisite: None

Hotel Management focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting.
Programs of Study: Lodging and Resort Management, and Travel, Tourism, and Attractions

Human Body Systems (PLTW)

Course Code: N1302093
Course Abbreviation: HUMBODSY
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In the Human Body Systems (HBS) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments to investigate the structures and functions of the human body and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary actions, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real-world cases, and often play the role of biomedical professionals to solve medical mysteries. Students practice problem-solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.
Program of Study: Biomedical Science

Human Growth and Development

Course Code: 13014300
Course Abbreviation: HUGRDEV
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Education and Training or Principles of Human Services
Recommended Corequisite: None

Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. Students use the knowledge and skills gained in this course to prepare for a career path working with children in an educational or service learning setting. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.
Programs of Study: Family and Community Services, Health and Wellness, and Teaching and Training

Human Resources Management

Course Code: 13011900
Course Abbreviation: HRMGT
Credit: .5
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Human Resources Management is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and global impacts on human resources.
Programs of Study: Business Management, and Retail Management (Regional)

Imaging Technology I

Course Code: N1302123
Course Abbreviation: IMGTEC1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Introduction to Imaging Technology
Recommended Corequisite: None

The Imaging Technology I course provides students with the opportunity to learn about standard radiographic positioning and related medical terminology of the chest, abdomen, and upper and lower extremities. The course introduces students to the operation of X-ray equipment, analyzing X-rays, and maintaining diagnostic results. Imaging Technology I prepares students for college, career and military readiness by allowing the student the opportunity to obtain an industry certification, enter the workforce upon graduation from high school, or transition to a postsecondary institution with the prior knowledge to be successful in a radiology career field.
Program of Study: Diagnostic and Therapeutic Services

Imaging Technology II

Course Code: N1302131
Course Abbreviation: IMGTEC2
Credits: 2
Level: 3
Prerequisite: Imaging Technology I
Corequisite: None
Recommended Prerequisite: Introduction to Imaging Technology
Recommended Corequisite: None

The Imaging Technology II Clinical course provides students with the opportunity to build upon the knowledge learned in Introduction to Imaging Technology and Imaging Technology I. The course prepares students to take the Limited Medical Radiologic Technician Licensing Exam (LMRT) by increasing their depth of knowledge in anatomy, radiology-based physics, positioning, radiation protection, radiation biology, patient care, ethics, imaging techniques, correcting imaging errors, image storage, and equipment while participating in clinical rotations. Additionally, students will identify errors within the radiographic image and describe how to correct the errors. Imaging Technology II incorporates a clinical component that allows students to gain hands-on experience.
Program of Study: Diagnostic and Therapeutic Services

Independent Study in Evolving/Emerging Technologies

Course Code:
03581500 (First Time Taken)
03581600 (Second Time Taken)
03581700 (Third Time Taken)

Course Abbreviation:
TAINDET1
TAINDET2
TAINDET3

Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: A minimum of one credit from the courses in the Information Technology career cluster
Recommended Corequisite: None

In the Independent Study in Evolving/Emerging Technologies course, through the study of evolving/emerging technologies, including technology-related terms, concepts, and data input strategies, students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will learn to make informed decisions, develop and produce original work that exemplifies the standards identified by the selected profession or discipline, and publish the product in electronic media and print. Students will demonstrate efficient acquisition of information by identifying task requirements, using search strategies, and using technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Note: Second Time Taken and Third Time Taken are not in a program of study, do not count for CCMR, and earn 1.1 weighted funding.
Programs of Study: Cybersecurity, Graphic Design and Interactive Media, Information Technology Support and Services, Networking Systems, Programming and Software Development, and Web Development

Independent Study in Technology Applications

Course Code:
03580900 (First Time Taken)
03581000 (Second Time Taken)
03581100 (Third Time Taken)

Course Abbreviation:
TAIND1
TAIND2
TAIND3

Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: A minimum of one credit from the courses in the Information Technology career cluster
Recommended Corequisite: None

In Independent Study in Technology Applications, through the study of technology applications foundations, including technology-related terms, concepts, and data input strategies, students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will learn to make informed decisions; develop and produce original work that exemplifies the standards identified by the selected profession or discipline; and publish the product in electronic media and print. Students will practice the efficient acquisition of information by identifying task requirements, using search strategies, and using technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Note: Second Time Taken and Third Time Taken are not in a program of study, do not count for CCMR, and earn 1.1 weighted funding.
Programs of Study: Cybersecurity, Graphic Design and Interactive Media, Information Technology Support and Services, Networking Systems, Programming and Software Development, and Web Development

Information Technology Troubleshooting

Course Code: 13027535 **Course Abbreviation**: INFOTRBL
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Information Technology career cluster
Corequisite: None
Recommended Prerequisite: Principles of Information Technology and Computer Maintenance/Lab
Recommended Corequisite: None

The Informational Technology Troubleshooting course is about applying logic over technical components to identify and resolve problems. The course focuses on developing a methodical approach in IT troubleshooting and leveraging those skills in a workplace environment. In this course, students learn and use proven troubleshooting methods and apply those in a collaborative workplace setting. Students develop personal success skills, including time management and personal accountability measures, strategies for collaboration and teamwork, and effective written and verbal communication skills. The knowledge and skills acquired in the course enables students to use IT resources and data safely, ethically, and within legal guidelines. Students work within a service level model that helps them to interpret, clarify, and diagnose issues with hardware, software, and networking.
Program of Study: Information Technology Support and Services

Instructional Practices

Course Code: 13014400 **Course Abbreviation**: INPRAC
Credits: 2 **Level**: 3
Prerequisite: At least one credit in a course from the Education and Training career cluster
Corequisite: None
Recommended Prerequisite: Principles of Education and Training, Human Growth and Development, or Child Development
Recommended Corequisite: None

Instructional Practices is a field-based (practicum) course that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and perform other duties of teachers, trainers, paraprofessionals, or other educational personnel.
Program of Study: Teaching and Training

Insurance Operations

Course Code: 13016500 **Course Abbreviation**: INSOPS
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

In Insurance Operations, students will understand the laws and regulations in order to manage business operations and transactions in the insurance industry.
Programs of Study: Accounting and Financial Services, Marketing and Sales, and Real Estate

Interior Design I

Course Code: 13004300 **Course Abbreviation**: INTERDS1
Credit: 1 **Level**: 2
Prerequisites: Algebra I and English I
Corequisite: None
Recommended Prerequisites: Principles of Architecture and Principles of Construction, or Architectural Design I
Recommended Corequisite: None

Interior Design I is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry.
Programs of Study: Architectural Drafting and Design, and Real Estate

Interior Design II

Course Code: 13004400 **Course Abbreviation**: INTERDS2
Credits: 2 **Level**: 3
Prerequisites: English II, Geometry, and Interior Design I
Corequisite: None
Recommended Prerequisites: None
Recommended Corequisite: None

Interior Design II is a technical laboratory course that includes the application of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior design to meet industry standards.
Program of Study: Architectural Drafting and Design

Intermediate Computer-Aided Design and Drafting

Course Code: 13037360 **Course Abbreviation**: INTMCADD
Credit: 1 **Level**: 2
Prerequisite: Architectural Design I, Introduction to Computer-Aided Design and Drafting, or Engineering Design and Presentation
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Intermediate Computer-Aided Design and Drafting (CADD), students develop practices and techniques used in computer-aided drafting, emphasizing the development and use of prototype drawings, construction of pictorial drawings, construction of three-dimensional drawings, interfacing two-dimensional and three-dimensional environments, and extracting data. Basic rendering techniques will also be developed. Emphasis is placed on drawing set-up; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects; adding text and dimensions; using layers and coordinating systems, as well as using input and output devices.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

International Baccalaureate (IB) Computer Science Higher Level

Course Code:
I3580310 (Math)
I3580320 (LOTE)

Course Abbreviation:
IBTACSHLM
IBTACSHLL

Credits: 2 – I35803102 (1) I3580320 (1)
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Computer Science I, Algebra II
Recommended Corequisite: None

Content requirements for IB Computer Science Higher Level are prescribed by the International Baccalaureate Organization. Subject guides may be obtained from International Baccalaureate of North America.
Note: This course satisfies a high school mathematics graduation and a LOTE graduation requirement.
Programs of Study: Cybersecurity, and Programming and Software Development

International Baccalaureate (IB) Computer Science Standard Level

Course Code: I3580200
Course Abbreviation: IBTACSSL
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Computer Science I, Algebra II
Recommended Corequisite: None

Content requirements for IB Computer Science Standard Level are prescribed by the International Baccalaureate Organization. Subject guides may be obtained from International Baccalaureate of North America.
Programs of Study: Cybersecurity, and Programming and Software Development

International Baccalaureate (IB) Digital Society Higher Level

Course Code: I3580500
Course Abbreviation: IBITGSHL
Credits: 2
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Computer Science I, Algebra II
Recommended Corequisite: None

Content requirements for IB Digital Society Higher Level are prescribed by the International Baccalaureate Organization. Subject guides may be obtained from International Baccalaureate of North America.
This course is not in a program of study

International Baccalaureate (IB) Digital Society Standard Level

Course Code: I3580400
Course Abbreviation: IBITGSSL
Credits: 2
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Computer Science I, Algebra II
Recommended Corequisite: None

Content requirements for IB Digital Society Standard Level are prescribed by the International Baccalaureate Organization. Subject guides may be obtained from International Baccalaureate of North America.
This course is not in a program of study

Internetworking Technologies I (Cisco)

Course Code: N1302803
Course Abbreviation: INTNET1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The purpose of this course is to begin to prepare students for a networking career by introducing how networks operate. This first course introduces architectures, models, protocols, and networking elements – understanding needed to support the operations and priorities of Fortune 500 companies to small innovative retail businesses. In this course, students will build simple local area networks (LANs), perform basic configurations for routers and switches, and develop a working knowledge of IP addressing schemes and foundational network security.
Programs of Study: Cybersecurity, Information Technology Support and Services, and Networking Systems

Internetworking Technologies II (Cisco)

Course Code: N1302804
Course Abbreviation: INTNET2
Credit: 1
Level: 3
Prerequisite: Internetworking Technologies I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course focuses on switching technologies and router operations that support small-to-medium business networks, including wireless local area networks (WLAN) and security concepts. In Internetworking Technologies II, students perform basic network configuration and troubleshooting, identify and mitigate local area network (LAN) security threats, and configure and secure a basic WLAN. Students will demonstrate a deeper understanding of industry expectations by applying more advanced concepts in a practical lab situation that simulates the environment students might encounter in the workplace. Recommended preparation: Cisco Networking Study Guide: Introduction to Networks or equivalent knowledge.
Programs of Study: Cybersecurity, Information Technology Support and Services, and Networking Systems

Interpersonal Studies

Course Code: 13024400
Course Abbreviation: INTERSTU
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services, Principles of Hospitality and Tourism, Principles of Health Science, or Principles of Education and Training
Recommended Corequisite: None

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.
Programs of Study: Exercise Science, Wellness, and Restoration, Family and Community Services, and Health and Wellness

Introduction to Aerospace and Aviation

Course Code: N1304672
Course Abbreviation: INTAEAVI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Introduction to Aerospace and Aviation course will provide the foundation for advanced exploration in the areas of professional pilot, aerospace engineering, and unmanned aircraft systems. Students will learn about the history of aviation, from Leonardo da Vinci's ideas about flight to the Wright brothers and the space race. Along the way students will learn about the innovations and technological developments that have made today's aviation and aerospace industries possible. The course includes engineering practices, the design process, aircraft structure, space vehicles past and present, and a look toward future space exploration. Students will also learn about the wide variety of exciting and rewarding careers available to them. The Introduction to Aerospace and Aviation course will inspire students to consider aviation and other aerospace careers while laying the foundation for continued study in grades 10-12.
Programs of Study: Aviation (Pilots), Drone (Unmanned Vehicle) (Regional), and Mechanical and Aerospace Engineering

Introduction to Aircraft Technology

Course Code: 13039350
Course Abbreviation: INAIRTEC
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Introduction to Aircraft Technology is designed to teach the theory of operation of aircraft airframes, powerplants, and associated maintenance and repair practices. Maintenance and repair practices include knowledge of the general curriculum subjects, powerplant theory and maintenance, and the function, diagnosis, and service of airframe structures, airframe systems and components, and powerplant systems and components of aircraft. Industry-recognized professional licensures, certifications, and registrations are available for students who meet the requirements set forth by the accrediting organization.
Programs of Study: Aviation Maintenance, and Aviation (Pilots)

Introduction to C# Programming Applications

Course Code: N1302812
Course Abbreviation: INTCPA
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: At least one credit in a Level 2 or higher course in programming or software development
Recommended Corequisite: None

Introduction to C# Programming Applications is an introductory programming course using the C# programming language. C# is primarily used on the Windows.NET framework. This course does not assume any prior programming experience, though students should have a working knowledge of Object-Oriented Programming concept. Students will use C# to create several different programs and applications: mobile apps, desktop apps, cloud-based services, websites, enterprise software, and games. In this course, students will explore data types, control structures, functions, syntax, and semantics of the language, classes, class relationships, and exception handling for C#. Students will demonstrate the use of software development tools. Students will develop and write documented C# programs, including designing, debugging, and analyzing code. The course provides and prepares students to enter the workforce or college with a solid foundation in C# programming. The course prepares students to create different mobile apps, desktop apps, cloud-based services, websites, enterprise software, and games.
Program of Study: Programming and Software Development

Introduction to Computer-Aided Design and Drafting

Course Code: 13037350
Course Abbreviation: INTRCADD
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Applied Engineering, Principles of Architecture and Design, or Principles of Manufacturing
Recommended Corequisite: None

Introduction to Computer-Aided Design and Drafting (CADD) allows students to acquire knowledge and skills needed to use design software, including an introduction to CADD equipment and software selection and interfaces. Students gain skills in setting up a CADD workstation; upgrading a computer to run advanced CADD software; working with storage devices; storing, retrieving, backing-up, and sharing databases, file servers, and local area networks (LANs); and transferring drawing files over the internet.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

Introduction to Cosmetology

Course Code: 13025100
Course Abbreviation: INTCOSMO
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.
Program of Study: Cosmetology and Personal Care Services (Regional)

Introduction to Culinary Arts

Course Code: 13022550
Course Abbreviation: INCULART
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism
Recommended Corequisite: None

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.
Programs of Study: Culinary Arts, and Travel, Tourism, and Attractions

Introduction to Dental Science

Course Code: N1302101
Course Abbreviation: DNTSCI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Introduction to Dental Science is an introductory health science course designed to initiate secondary students to the field of dentistry and related topics. At the end of the course, students will be able to discuss the history of dentistry; identify dental related career pathways; explain dental legal and ethical responsibilities; recognize professional healthcare behavior and demeanor; and perform basic routine dental office procedures. The purpose of this course is to establish a foundation for future coursework in dental science and prepare secondary students for a future career in dentistry.
Program of Study: Diagnostic and Therapeutic Services

Introduction to Film Interpretation of Weldments

Course Code: N1303687
Course Abbreviation: INTFMWLD
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I
Recommended Corequisite: None

Introduction to Film Interpretation of Weldments provides an overview of non-destructive testing (NDT) principles. It includes coverage of the inspection process, systems, measurements, theories and practices. Students will identify terminology and fundamental concepts of film interpretation of weldments; describe the trends of NDT careers within the industry cluster; identify safety, health, environmental, and ergonomic issues in non-destructive testing; discuss quality and continuous improvement methods; describe the importance of maintenance and inspection within manufacturing; and identify processes and production steps in manufacturing.
Program of Study: Welding

Introduction to Imaging Technology

Course Code: N1302102
Course Abbreviation: IMGTECH
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Introduction to Imaging Technology course provides students an introduction to the basic principles, guidelines, and knowledge needed for members of the medical imaging field. This course will provide the student with an overview of radiography and its role within the health care system, including basic radiologic terminology, equipment, basic image production, patient positioning, and radiation safety. The student will study human anatomic structures and organs, as well as the standard positioning associated with the chest, abdomen, upper and lower extremities. This course is recommended for students grades 9-10 interested in the medical imaging field.
Program of Study: Diagnostic and Therapeutic Services

Introduction to Instrumentation and Electrical

Course Code: N1303900
Course Abbreviation: INSTELEC
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Integrated Physics and Chemistry (IPC) or chemistry
Recommended Corequisite: None

Introduction to Instrumentation and Electrical will introduce students to instrumentation professions, including the different career opportunities available and required certification/postsecondary education requirements for each. Introduction to Instrumentation is the first of two courses that provide a pathway for the student to learn core competencies, as identified by industries using process instrumentation and postsecondary institutions such as simple control loops, an introduction to pressure, temperature, level, flow transmitters and the various transducers used in the detection of changes in process variables.
Program of Study: Refining and Chemical Processes

Introduction to Pharmacy Science

Course Code: N1302103
Course Abbreviation: PHARSCI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Introduction to Pharmacy Science course is designed to provide an overview of the history of the pharmacy profession, legal and ethical aspects of pharmacy, skills necessary to work in the field of pharmacy (including professionalism, certifications/registration, communication and medical terminology, and rules and regulations pertaining to the field), medical math, anatomy and physiology/pathophysiology, pharmacology, and wellness as they pertain to pharmacy sciences. It is the first course in a pathway leading to certification as a pharmacy technician.
Program of Study: Diagnostic and Therapeutic Services

Introduction to Process Technology

Course Code: 13040502
Course Abbreviation: INTRPT
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Introduction to Process Technology, students will learn the social significance and workforce impact of process technology in industry and the opportunities available at various levels of education and training in industries using process technology.
Program of Study: Refining and Chemical Processes

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Introduction to Shipboard Engineering

Course Code: N1304666
Course Abbreviation: INTSE
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Maritime Science
Recommended Corequisite: None

Introduction to Shipboard Engineering is designed to provide training for entry-level employment and/or a basis for continuing education in shipboard engineering and merchant mariner credentialing. This course will build on the foundational knowledge previously acquired in the Principles of Maritime Science course. Shipboard engineering includes knowledge of the functions, troubleshooting, maintenance and repair of the systems and components of maritime engines such as centrifuge engines, outboards, and portable dewatering pumps. In addition, students will receive instruction in safety, emergency procedures, and shipboard auxiliary systems.
Program of Study: Maritime (Regional)

Introduction to Small Engine Technology

Course Code: 13040000
Course Abbreviation: INTSET
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Introduction to Small Engine Technology includes knowledge of the function and maintenance of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.
Programs of Study: Automotive and Collision Repair, Diesel and Heavy Equipment Maintenance and Commercial Driver, and Industrial Maintenance

Introduction to Speech Pathology and Audiology

Course Code: N1302100
Course Abbreviation: INTSPA
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Anatomy and Physiology and Principles of Health Science
Recommended Corequisite: None

The Introduction to Speech Pathology and Audiology course is designed to provide for the development of advanced knowledge and skills related to the professions that specialize in communication disorders: speech-language pathology, audiology, hearing, and speech and language science. Topics are related to defining the professional practice areas of speech language pathology, audiology and hearing, and speech and language science; the scope of practice as determined by the American Speech-Language-Hearing Association for these professions; multicultural service delivery for individuals with communication disorders; certification; code of ethics; practice settings; employment opportunities; and the use of technology in management and treatment of communication disorders.
Program of Study: Exercise Science, Wellness, and Restoration

Introduction to Transportation Technology

Course Code: 13039270
Course Abbreviation: INTRTEC
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Introduction to Transportation Technology includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Transportation technology includes applicable safety and environmental rules and regulations. In transportation technology, students will gain knowledge and skills in the repair, maintenance, and diagnosis of transportation systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.
Programs of Study: Automotive and Collision Repair, and Diesel and Heavy Equipment Maintenance and Commercial Driver

Introduction to Unmanned Aerial Vehicles (UAV)

Course Code: N1304670
Course Abbreviation: PRINUAV
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Transportation Systems
Recommended Corequisite: None

Course Description: The Introduction to Unmanned Aerial Vehicles (UAV) Flight course is designed to prepare students for entry-level employment or continuing education in piloting UAV operations. Principles of UAV is designed to instruct students in UAV flight navigation, industry laws and regulations, and safety regulations. Students are also exposed to mission planning procedures, environmental factors, and human factors involved in the UAV industry.
Programs of Study: Aviation (Pilots), and Drone (Unmanned Vehicle) (Regional)

Introduction to Welding

Course Code: 13032250
Course Abbreviation: INTRWELD
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I
Recommended Corequisite: Algebra I

Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.
Programs of Study: Industrial Maintenance, Plumbing and Pipefitting, and Welding

Junior Reserve Officers' Training Corps (JROTC) I

Course Code: 03160100
Course Abbreviation: JROTC1
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course is designed for students enrolled in Army (AJROTC), Air Force (AFJROTC), Navy (NJROTC), Marine Corps (MCJROTC), and Space Force (SFJROTC) programs. *Note: JROTC I-IV may be used to satisfy one PE credit. PES00004 – PE Substitution, will earn 1.28 CTE weighted funding.*
Program of Study: Junior Reserve Officers' Training Corps

Junior Reserve Officers' Training Corps (JROTC) II

Course Code: 03160200
Course Abbreviation: JROTC2
Credit: 1
Level: 2
Prerequisite: JROTC I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course is designed for students enrolled in Army (AJROTC), Air Force (AFJROTC), Navy (NJROTC), Marine Corps (MCJROTC), and Space Force (SFJROTC) programs. *Note: JROTC I-IV may be used to satisfy one PE credit. PES00004 – PE Substitution, will earn 1.28 CTE weighted funding.*
Program of Study: Junior Reserve Officers' Training Corps

Junior Reserve Officers' Training Corps (JROTC) III

Course Code: 03160300
Course Abbreviation: JROTC3
Credit: 1
Level: 3
Prerequisite: JROTC I and JROTC II
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course is designed for students enrolled in Army (AJROTC), Air Force (AFJROTC), Navy (NJROTC), Marine Corps (MCJROTC), and Space Force (SFJROTC) programs. *Note: JROTC I-IV may be used to satisfy one PE credit. PES00004 – PE Substitution, will earn 1.28 CTE weighted funding.*
Program of Study: Junior Reserve Officers' Training Corps

Junior Reserve Officers' Training Corps (JROTC) IV

Course Code: 03160300
Course Abbreviation: JROTC4
Credit: 1
Level: 4
Prerequisite: JROTC I, JROTC II, and JROTC III
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course is designed for students enrolled in Army (AJROTC), Air Force (AFJROTC), Navy (NJROTC), Marine Corps (MCJROTC), and Space Force (SFJROTC) programs. *Note: JROTC I-IV may be used to satisfy one PE credit. PES00004 – PE Substitution, will earn 1.28 CTE weighted funding.*
Program of Study: Junior Reserve Officers' Training Corps

Kinesiology I

Course Code: N1302104
Course Abbreviation: KINES1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers within the kinesiology field and be able to explain the societal demand for kinesiology-related jobs. Students will develop a foundation in Kinesiology I that will prepare them for upper-level courses that will dive deeper into the anatomical and physiological functions of the body and provide opportunities for an industry-certified exam such as a certified personal trainer.
Program of Study: Exercise Science, Wellness, and Restoration

Kinesiology II

Course Code: N1302124
Course Abbreviation: KINES2
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Kinesiology I
Recommended Corequisite: None

The Kinesiology II course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. The course is designed to allow students to advance their understanding of professional standards, employability skills, and ethical and legal standards. Throughout this course, students explore the healthcare/exercise business model and gain an understanding of therapeutic sports psychology. Students develop proper aerobic fitness programs and rehabilitation programs. Kinesiology II prepares students for an industry certification exam such as Certified Personal Trainer.
Program of Study: Exercise Science, Wellness, and Restoration

Landscape Design and Management

Course Code: 13001900
Course Abbreviation: LNDMGT
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Plant Science

Law Enforcement l

Course Code: 13029300 **Course Abbreviation**: LAWENF1
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security
Recommended Corequisite: None

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.
Program of Study: Law Enforcement

Law Enforcement ll

Course Code: 13029400 **Course Abbreviation**: LAWENF2
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Law Enforcement l
Recommended Corequisite: None

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.
Program of Study: Law Enforcement

Leadership and Management in Nursing

Course Code: 13021225 **Course Abbreviation**: LMNURS
Credit: 1 **Level**: 3
Prerequisites: One credit in biology, one credit in chemistry, and at least one credit in a course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: Science of Nursing
Recommended Corequisite: None

This course is designed to explore leadership and management in nursing, studying topics such as ethics, educational levels, career paths, regulatory bodies, and personal and professional leadership skills.
Program of Study: Nursing Science

Legal Research and Writing

Course Code: 13018610 **Course Abbreviation**: LEGALRW
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Law and Public Service career cluster
Corequisite: None
Recommended Prerequisite: Court Systems and Practices
Recommended Corequisite: None

Legal Research and Writing provides an introduction to the study and practice of legal writing and research. This course is designed to introduce students to the methods and tools used to conduct legal research, develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study U.S. Constitutional law, and prepare for appellate argument(s).
Program of Study: Legal Studies

Lifetime Nutrition and Wellness

Course Code: 13024500 **Course Abbreviation**: LNURTWEL
Credit: .5 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services, Principles of Hospitality and Tourism, or Principles of Health Science
Recommended Corequisite: None

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.
Programs of Study: Exercise Science, Wellness, and Restoration, Family and Community Services, and Health and Wellness

Livestock and Poultry Production

Course Code: 13000300 **Course Abbreviation**: LIVEPROD
Credit: 1 **Level**: 3
Prerequisite: At least one course from the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

In Livestock and Poultry Production, students acquire knowledge and skills related to the livestock and poultry production industry. Livestock and Poultry Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic knowledge and skills, acquire knowledge and skills related to livestock and poultry systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Animal Science

Livestock and Poultry Production + Agricultural Laboratory and Field Experience

Course Code: 13000310 **Course Abbreviation**: LIVPROLAB
Credits: 2 **Level**: 3
Prerequisites: At least one course from the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

In Livestock and Poultry Production, students acquire knowledge and skills related to the livestock and poultry production industry. Livestock and Poultry Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic knowledge and skills, acquire knowledge and skills related to livestock and poultry systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Animal Science

Logistics Engineering

Course Code: N1303801
Course Abbreviation: LOGENG
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Distribution and Logistics and Distribution and Logistics
Recommended Corequisite: None

The purpose of the Logistics Engineering course is to prepare students for supply chain management (SCM) and logistics professions and required certifications/post-secondary education requirements for each. The main goal of this course is to provide a pathway for high school students to learn core competencies as identified by the local SCM and logistics industry and post-secondary institutions. The central focus of the Logistics Engineering course is to provide instruction which can lead to various workforce-preparation degree programs that support employment in the manufacturing, transportation, distribution, supply chain management and logistics industries.
Program of Study: Distribution, Logistics, and Warehousing

Management of Transportation Systems

Course Code: 13040200
Course Abbreviation: MNGTRSY
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Transportation Systems
Recommended Corequisite: None

In Management of Transportation Systems, students will gain knowledge and skills in material handling and distribution and proper application, design, and production of technology as it relates to the transportation industries. This course includes the safe operation of tractor-trailers, forklifts, and related heavy equipment. This course will allow students to reinforce, apply, and transfer their academic knowledge and skills to management of transportation systems and associated careers.
Program of Study: Distribution, Logistics, and Warehousing

Manufacturing Engineering Technology I

Course Code: 13032900
Course Abbreviation: MANENGT1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I
Recommended Corequisite: None

In Manufacturing Engineering Technology I, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.
Programs of Study: Electrical Engineering, Engineering Foundations, Robotics and Automation Technology

Manufacturing Engineering Technology ll

Course Code: 13032950 **Course Abbreviation**: MANENGT2
Credit: 1 **Level**: 3
Prerequisite: Manufacturing Engineering Technology l
Corequisite: None
Recommended Prerequisite: Algebra II, Computer Science I, or physics
Recommended Corequisite: None

In Manufacturing Engineering Technology II, students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of Manufacturing Engineering Technology II will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.
Note: This course satisfies a high school mathematics graduation requirement.
Program of Study: Robotics and Automation Technology

Maritime Science I

Course Code: N1304662 **Course Abbreviation**: MSCI1
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Maritime Science
Recommended Corequisite: None

Maritime Science I provides training for entry-level employment and a basis for continuing education in deck and piloting careers and merchant mariner credentialing. Students will build on the foundational knowledge acquired in the Principles of Maritime Science course. Maritime Science I will instruct students in progressing aspects of vessel piloting and navigation, safety of life at sea, voyage planning, shipboard damage control and marine pollution. Specifically, students will understand safety expectations, laws, and environmental and human factors involved in the maritime industry. The course focuses on lab assignments and simulator experiences to reinforce critical-thinking and decision-making skills in navigation, ship handling, collision avoidance, and risk assessment and mitigation. Navigation instruction, including chart preparation, various distance, speed, and time relationships, positioning techniques, calculation of tides and currents, and voyage planning, and aids to navigation, will be explored. Students will learn basic shipboard damage control actions required in the event of shipboard casualties, search and rescue, advancements, collateral duties, and other personnel management issues.
Program of Study: Maritime (Regional)

Maritime Science II

Course Code: N1304663 **Course Abbreviation**: MSCI2
Credit: 1 **Level**: 3
Prerequisite: Maritime Science I
Corequisite: None
Recommended Prerequisite: Principles of Maritime Science
Recommended Corequisite: None

After successful completion of Principles of Maritime Science and Maritime Science I, students may participate in the course, Maritime Science II. Students will develop new skills such as advanced navigation coordination; collision avoidance; briefing the command; electronic navigation theory; basic, routine, and emergency ship handling procedures; external communications; and other relevant knowledge, skills, and techniques. Upon successful completion of this course, students will be able to plan and execute safe vessel navigation. Students will exhibit knowledge of all bridge navigation (TRANSAS, ECDIS, and Paper Charts) equipment and procedures. Using case studies and real world simulations, students will identify the contributing factors involved in maritime accidents.
Program of Study: Maritime (Regional)

Marketing

Course Code: 13011131
Course Abbreviation: MRKTNG
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

The Marketing course explores the seven core functions of marketing, which include marketing planning -- why target marketing and industry affect businesses; marketing-information management -- why market research is important; pricing -- how prices maximize profit and affect the perceived value; product/service management -- why products live and die; promotion -- how to inform customers about products; channel management -- how products reach the final user; and selling -- how to convince a customer that a product is the best choice. Students will demonstrate knowledge through hands-on projects that may include conducting research, creating a promotional plan, pitching a sales presentation, and introducing an idea for a new product or service.
Programs of Study: Marketing and Sales, and Real Estate

Masonry Technology I

Course Code: 13006300
Course Abbreviation: MASTECH1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Construction
Recommended Corequisite: None

Masonry Technology I provides information and techniques related to basic masonry and safety precautions. For safety and liability considerations, limiting course enrollment to 15 students is recommended.
Program of Study: Masonry

Masonry Technology II

Course Code: 13006400
Course Abbreviation: MASTECH2
Credits: 2
Level: 3
Prerequisite: Masonry Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Masonry Technology II is designed to further enhance the skills and knowledge of the beginning masonry student. For safety and liability considerations, limiting course enrollment to 15 students is recommended.
Program of Study: Masonry

Mathematical Applications in Agriculture, Food, and Natural Resources

Course Code: 13001000
Course Abbreviation: MATHAFNR
Credit: 1
Level: 2
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: One credit from the courses in the Agriculture, Food, and Natural Resources career cluster
Recommended Corequisite: None

In Mathematical Applications in Agriculture, Food, and Natural Resources, students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. To prepare for success, students need opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.
Note: This course satisfies a high school mathematics graduation requirement.
Program of Study: Agriculture Business, Leadership, and Communications

Mathematics for Medical Professionals

Course Code: 13020970
Course Abbreviation: MTHMEDPR
Credit: 1
Level: 4
Prerequisites: Geometry and Algebra ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Mathematics for Medical Professionals course is designed to serve as the driving force behind the Texas Essential Knowledge and Skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding in medical mathematics, students will extend and apply mathematical skills necessary for health science professions. Course content consists primarily of high school level mathematics concepts and their applications to health science professions.
Programs of Study: Diagnostic and Therapeutic Services, and Health Informatics

Mechanical Design I

Course Code: 12756030
Course Abbreviation: MECHDES1
Credit: 1
Level: 3
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Geometry

Students enrolled in Mechanical Design I demonstrate knowledge and skills associated with design and manufacture of mechanical systems. Fundamental mechanisms are introduced such as gears, belts, threaded elements, and four-bar mechanisms. Basic manufacturing processes such as stamping, injection molding, casting, machining, and assembly are explored through reverse engineering. The mechanisms encountered through reverse engineering enable the exploration of product functionality. Students compare engineering choices made for components, materials, and manufacturing processes. Emphasis is placed on team collaboration and professional documentation.
Program of Study: Mechanical and Aerospace Engineering

Mechanical Design II

Course Code: 12756035
Course Abbreviation: MECHDES2
Credits: 2
Level: 4
Prerequisite: Mechanical Design I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students enrolled in Mechanical Design II demonstrate knowledge and skills associated with the design development and validation of a prototype solution to meet a given set of requirements. Students identify project stakeholders; manage projects; evolve requirements; model system solutions; develop, test, and refine prototypes; and validate project solutions. Emphasis is placed on budget management, professional documentation, conducting project status updates, critiquing design reviews, and team collaboration.
Program of Study: Mechanical and Aerospace Engineering

Mechanics of Materials

Course Code: 12756020
Course Abbreviation: MECHMAT
Credit: 1
Level: 3
Prerequisites: At least one credit from the Engineering career cluster and physics; Algebra II
Corequisite: Algebra II
Recommended Prerequisite: None
Recommended Corequisite: None

Students enrolled in Mechanics of Materials describe the mechanical behavior of engineering materials, including metals, ceramics, polymers, composites, welds, and adhesives, and the applications of load, deformation, stress and strain relationships for deformable bodies, and mechanical elements relevant to engineers. The course includes axially loaded members, buckling of columns, torsional members, beams, and failure.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Engineering Foundations

Medical Assistant

Course Code: 13021015
Course Abbreviation: MEDASST
Credit: 1
Level: 3
Prerequisite: Anatomy and Physiology
Corequisite: Anatomy and Physiology
Recommended Prerequisite: Medical Terminology
Recommended Corequisite: None

The Medical Assistant course provides students with the knowledge and skills to pursue a career as a medical assistant and to improve college and career readiness. Students will obtain communication skills, clinical ethics knowledge, safety awareness, and information related to medical assisting career opportunities.
Program of Study: Diagnostic and Therapeutic Services

Medical Billing and Coding

Course Code: 13020964
Course Abbreviation: MEDBC
Credit: 1
Level: 4
Prerequisite: Medical Terminology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Medical Billing and Coding familiarizes students with the process, language, medical procedure codes, requirements of Health Insurance Portability and Accountability Act (HIPAA), and skills they will need to make accurate records. Students will develop an understanding of the entire process of the revenue cycle and how to effectively manage it. The program is designed to prepare students for employment in a variety of health care settings as entry level coder, medical billing specialist, and patient access representative.
Program of Study: Health Informatics

Medical Intervention Evaluation and Research

Course Code: N1302125
Course Abbreviation: MEDINEV
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Health Informatics or Principles of Health Science
Recommended Corequisite: None

Medical Intervention, Evaluation, and Research further develops basic knowledge of health informatics, data management, and biotechnological advances and their connections in the various healthcare settings. Topics include informatics in medical intervention and evaluation, electronic patient management systems, applications in medical diagnostics, best practices in billing and coding medical diagnosis and procedures, appropriate International Classification of Diseases (ICD) 10 codes, fraud prevention, and databases culminating in an extended learning experience. The demand and growth in the field precipitates a needed integration of multiple medical technologies and their impact in healthcare delivery.
Program of Study: Health Informatics

Medical Interventions (PLTW)

Course Code: N1302094
Course Abbreviation: MEDINT
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: At least one credit in a Level 2 or higher course in the Biomedical Science program of study
Recommended Corequisite: None

Medical Interventions (PLTW) allows students to investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease. Students explore how to prevent and fight infection; screen and evaluate the code in our DNA; prevent, diagnose, and treat cancer; and prevail when the organs of the body begin to fail. A wide range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics are explored in real-world, patient-centered scenarios. Interventions may range from simple diagnostic tests to treatment of complex diseases and disorders. Lifestyle choices and preventive measures are emphasized throughout the course as well as the role that scientific thinking and engineering design play in the development of interventions of the future. Students practice problem-solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.
Program of Study: Biomedical Science

Medical Microbiology

Course Code: 13020700 **Course Abbreviation**: MICRO
Credit: 1 **Level**: 3
Prerequisites: One credit in biology, one credit in chemistry, and at least one credit in a course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug-resistant organisms, and emerging diseases. Students must meet the 40% laboratory and fieldwork requirement.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, and Nursing Science

Medical Terminology

Course Code: 13020300 **Course Abbreviation**: MEDTERM
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Health Informatics, and Nursing Science

Metal Fabrication and Machining I

Course Code: 13032700 **Course Abbreviation**: MTFBMCH1
Credits: 2 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I or Geometry
Recommended Corequisite: None

Metal Fabrication and Machining I provides the knowledge, skills, and certifications required for equal employment opportunities in the metal production industry. Students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
Program of Study: Manufacturing Technology

Metal Fabrication and Machining ll

Course Code: 13032800
Course Abbreviation: MTFBMCH2
Credits: 2
Level: 3
Prerequisites: Metal Fabrication and Machining l
Corequisite: None
Recommended Prerequisites: Geometry and Algebra ll
Recommended Corequisite: None

Metal Fabrication and Machining II builds on the knowledge, skills, and certifications students acquire in Metal Fabrication and Machining I. Students will develop advanced concepts and skills as related to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
Program of Study: Manufacturing Technology

Microbiology and Safety for Cosmetology Careers

Course Code: N1302540
Course Abbreviation: MICRCOS
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students who enroll in Microbiology and Safety for Cosmetology Careers will receive instruction in the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, identification of microorganisms, drug resistant organisms, and emerging diseases. Additionally, students will explore and apply concepts as they apply to the safety and health of individuals pursuing a career in cosmetology services. This course also includes an opportunity for students to solve an in-depth analytical problem concerning occupational health and safety in cosmetology.
Program of Study: Cosmetology and Personal Care Services (Regional)

Mill and Cabinetmaking Technology

Course Code: 13005300
Course Abbreviation: MACTECH
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Architecture and Principles of Construction
Recommended Corequisite: None

In Mill and Cabinetmaking Technology, students will gain knowledge and skills needed to enter the workforce in the area of mill work and cabinet manufacturing and installation. Students may also apply these skills to professions in carpentry or building maintenance supervision or use the skills as a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in cabinet design, tool usage, jointing methods, finishes, and industry-level practices such as numerical and computer-control production methods.
Program of Study: Carpentry

Mobile Application Development

Course Code: 03580390
Course Abbreviation: TAMBAD
Credit: 1
Level: 3
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Mobile Application Development will foster students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use software development concepts to access, analyze, and evaluate information needed to program mobile devices. By using software design knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Programs of Study: Entrepreneurship, and Programming and Software Development

Money Matters

Course Code: 13016200
Course Abbreviation: MONEYM
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.
Program of Study: Accounting and Financial Services

Nail Care, Enhancements and Spa Services

Course Code: N1302531
Course Abbreviation: NCESS
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Nail Care, Enhancement and Spa Services students will demonstrate proficiency in academic, technical, and practical knowledge and skills (basic manipulative skills, safety judgements, and proper work habits). The content is designed to provide the occupational skills required for licensure as a nail technician or related career avenue. Instruction includes advanced training in professional standards/employability skills, TDLR rules and regulations, use of tools, equipment, technologies and materials, and practical skills.
Program of Study: Cosmetology and Personal Care Services (Regional)

National Security

Course Code: 13018800
Course Abbreviation: NATLSEC
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Government and Public Administration and Public Management and Administration or Principles of Law, Public Safety, Corrections, and Security or Junior Reserve Officer Training Corps (JROTC) coursework
Recommended Corequisite: None

National Security introduces the students to the aspects of disaster management. The course includes engaging simulation exercises related to natural disasters, man-made disasters, and terroristic events using homeland security programs and National Incident Management System (NIMS) programs.
Program of Study: Fire Science

Networking

Course Code: 13027400
Course Abbreviation: NETWRK
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab
Recommended Corequisite: Networking Lab

In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
Programs of Study: Cybersecurity, and Networking Systems

Networking + Networking Lab

Course Code: 13027410
Course Abbreviation: NETWRLAB
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab
Recommended Corequisite: None

In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
Programs of Study: Cybersecurity, and Networking Systems

Occupational Safety and Environmental Technology I

Course Code: N1303680 **Course Abbreviation**: OSET1
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Transportation Systems, Principles of Distribution and Logistics, or Principles of Manufacturing
Recommended Corequisite: None

During Occupational Safety & Environmental Technology (OSET) I, students will investigate the field of Occupational Safety and Health Administration and Environmental Technology, which is charged with the tasks of ensuring that business and industry provide a safe workplace, free from hazards and bringing about a reduction in the occurrence of job-related injuries and fatalities. Students will use safety resources and discover procedures for collaborating with business and industry regarding ways to increase employee safety and health, reduce workers' compensation insurance costs and medical expenses, decrease payout for return-to-work programs, reduce faulty products, and lower costs for job accommodations for injured workers. The sequence of OSET courses provides students with the knowledge and skills to enter business and industry under OSET/OSHA. Students will be prepared to investigate hazards and create plans of action to address hazard controls for employers.
Programs of Study: Automotive and Collision Repair, Aviation Maintenance, Diesel and Heavy Equipment Maintenance and Commercial Driver, Distribution, Logistics, and Warehousing, Manufacturing Technology, Maritime (Regional), Oil and Gas Exploration and Production, Robotics and Automation Technology, and Welding.

Occupational Therapy I

Course Code: N1302132 **Course Abbreviation**: OCCHLTH1
Credit: 1 **Level**: 3
Prerequisites: None
Corequisite: None
Recommended Prerequisites: Principles of Health Science or Principles of Allied Health and Medical Terminology or Allied Health Therapeutic Services
Recommended Corequisite: None

Occupational Therapy I is designed to provide concepts, knowledge, and skills necessary for a career in Occupational Therapy. This course will focus on the principles and practices of occupational therapy practitioners; proper management of patient care to safely assist patients; management of equipment as it relates to occupational therapy; and communication skills to work effectively within an occupational therapy practice. This course is designed for students in grades 11 or 12 who desire to work in an occupational therapy clinic as a therapy technician and/or advance to become a licensed occupational therapy practitioner.
Program of Study: Exercise Science, Wellness, and Restoration

Occupational Therapy II

Course Code: N1302133
Course Abbreviation: OCCHLTH2
Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Occupational Therapy I
Recommended Corequisite: None

Occupational Therapy II is an advanced course designed to build upon students' prior knowledge of Occupational Therapy. This course will focus on the Occupational Therapy Practice Framework and process; application of intervention modalities; use of assistive technology; building therapeutic relationships; and performing occupational therapy assessments. Student instruction is reinforced with hands-on activity labs and field-based learning experiences. This course is designed for students in grade 12 who desire to work in an occupational therapy clinic and/or advance to become a licensed occupational therapist or occupational therapy assistant.
Program of Study: Exercise Science, Wellness, and Restoration

Oil and Gas Production I

Course Code: 13001250
Course Abbreviation: OILGP1
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Oil and Gas Production I, students will identify specific career opportunities and skills, abilities, tools, certification, and safety measures associated with each career. Students will also understand components, systems, equipment, and production and safety regulations associated with oil and gas wells. To prepare for careers in oil and gas production, students must attain academic skills and knowledge, acquire technical knowledge and skills related to oil and gas production and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Oil and Gas Exploration and Production

Oil and Gas Production I + Agricultural Laboratory and Field Experience

Course Code: 13001255
Course Abbreviation: OILGPLAB1
Credits: 2
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Oil and Gas Production I, students will identify specific career opportunities and skills, abilities, tools, certification, and safety measures associated with each career. Students will also understand components, systems, equipment, and production and safety regulations associated with oil and gas wells. To prepare for careers in oil and gas production, students must attain academic skills and knowledge, acquire technical knowledge and skills related to oil and gas production and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
This course is not in a program of study

Oil and Gas Production II

Course Code: 13001260
Course Abbreviation: OILGP2
Credit: 1
Level: 2
Prerequisite: Oil and Gas Production I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Oil and Gas Production II, students will gain knowledge of the specific requirements for entry into post-secondary education and employment in the petroleum industry; research and discuss petroleum economics; research and discuss the modes of transportation in the petroleum industry; research and discuss environmental, health, and safety concerns; research and discuss different energy sources; and prepare for industry certification. To prepare for careers in oil and gas production, students must attain academic skills and knowledge, acquire technical knowledge and skills related to oil and gas production and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Oil and Gas Exploration and Production

Oil and Gas Production II + Agricultural Laboratory and Field Experience

Course Code: 13001265
Course Abbreviation: OILGPLAB2
Credits: 2
Level: None
Prerequisite: Oil and Gas Production I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Oil and Gas Production II, students will gain knowledge of the specific requirements for entry into post-secondary education and employment in the petroleum industry; research and discuss petroleum economics; research and discuss the modes of transportation in the petroleum industry; research and discuss environmental, health, and safety concerns; research and discuss different energy sources; and prepare for industry certification. To prepare for careers in oil and gas production, students must attain academic skills and knowledge, acquire technical knowledge and skills related to oil and gas production and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
This course is not in a program of study

Oil and Gas Production III

Course Code: 13040500
Course Abbreviation: OGPROD3
Credit: 1
Level: 3
Prerequisite: Oil and Gas Production II
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Oil and Gas Production III, students will gain knowledge of hydraulic and pneumatic systems and skill requirements to work in oil and gas and related industries. Students complete an advance core curriculum that includes hydraulic and pneumatic systems involved in oil and gas production. This program is designed to train students in all areas of down and mid-stream operation skills.
Program of Study: Oil and Gas Exploration and Production

Oil and Gas Production IV

Course Code: 13040501
Course Abbreviation: OGPROD4
Credit: 1
Level: 4
Prerequisite: Oil and Gas Production III
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Oil and Gas Production IV is designed to extend training for future petroleum engineering technicians in all areas of down and mid-stream operations. Students complete an intense core curriculum in areas that include hydrocarbon safety, drilling, petroleum geology, oil and gas exploration and production, reservoir operations, well head completions, petroleum data management operations and analysis, natural gas production, and economics. In conjunction with this course, students employ the latest computer software in engineering and petroleum, operations, data mining, and geological mapping.
Program of Study: Oil and Gas Exploration and Production

Optical Technician

Course Code: N1302126
Course Abbreviation: OPTTEC
Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Biology or Principles of Health Science
Recommended Corequisite: None

The Optical Technician course introduces high school students to the profession of dispensing eyeglasses and fitting contact lenses. The course includes classroom lectures, hands-on lab hours, and community clinics. The student will be proficient in the terminology of a dispensing optician and in using appropriate professional communication when engaging with patients, peers, colleagues, supervisors, and eye care providers. The course is designed to help the student prepare for entry-level positions in wholesale, retail, benevolent, and independent optical settings.
Program of Study: Diagnostic and Therapeutic Services

Paint and Refinishing

Course Code: 13039900
Course Abbreviation: PAINTREF
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Basic Collision Repair and Refinishing or Collision Repair
Recommended Corequisite: None

Paint and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.
Program of Study: Automotive and Collision Repair

Paint and Refinishing + Advanced Transportation Systems Laboratory

Course Code: 13039910
Course Abbreviation: PTREFLAB
Credits: 3
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Basic Collision Repair and Refinishing or Collision Repair
Recommended Corequisite: None

Paint and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive paint and refinishing.
Program of Study: Automotive and Collision Repair

Parenting Education I

Course Code: N1302536
Course Abbreviation: PAED1
Credit: 1
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

This course is designed to address the special needs and interests of students who are parents or expectant parents. Special emphasis is placed on prenatal care and development, postnatal care, infant care, child development, and parenting skills. Other units of study address personal development, responsible parenthood and adult roles, family problems and crises, conflict resolution, family health issues, nutrition, safety, management, and employability skills. Students develop the knowledge and skills to the multiple roles of student, parent, family member, and provider.
This course is not in a program of study

Parenting Education II

Course Code: N1302537
Course Abbreviation: PAED2
Credit: 1
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Parenting Education I
Recommended Corequisite: None

This course provides more in-depth knowledge of parenting and child development including implications of expectations of children, child abuse, disabilities, and issues impacting young families such as employment, postsecondary education, transportation, childcare, housing, and personal responsibility. Students develop the knowledge and skills to manage the multiple roles of being a student, parent, family member, and provider.
This course is not in a program of study

Pathophysiology

Course Code: 13020800
Course Abbreviation: PATHO
Credit: 1
Level: 4
Prerequisites: One credit in biology, one credit in chemistry, and at least one credit in a Level 2 or higher course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: Anatomy and Physiology
Recommended Corequisite: None

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, and Nursing Science

Petrochemical Safety, Health, and Environment

Course Code: 13040504 **Course Abbreviation**: PSHAE
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Petrochemical Safety, Health, and Environment addresses the shortage of process technology operators/technicians by educating students on the safety rules, regulations, and operations of the petrochemical process technology operator. Students enrolled in this course will learn about the knowledge and skills required in occupational safety, health, and environment as well as the governing regulatory authorities and the legal aspects of the industry in order to maintain a safe work environment.
Program of Study: Refining and Chemical Processes

Pharmacology

Course Code: 13020950 **Course Abbreviation**: PHARMC
Credit: 1 **Level**: 4
Prerequisites: One credit in biology, one credit in chemistry, and at least one credit in a Level 2 or higher course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from healthcare workers.
Programs of Study: Diagnostic and Therapeutic Services, and Nursing Science

Pharmacy I

Course Code: 13021020 **Course Abbreviation**: PHARMI
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Introduction to Pharmacy Science or Principles of Health Science and one credit in biology
Recommended Corequisite: None

The goal of Pharmacy I is for the student to gain a strong foundation in the knowledge and skills needed to pursue a career in the pharmaceutical field (e.g., pharmacy technician, pharmacist). Knowledge includes pharmacology, pharmacy law, medication safety, the dispensing process, and inventory. Pharmacy I is designed to be the second course in a pathway leading to college and career readiness in the healthcare therapeutics professions. The course content aligns with the competencies of pharmacy technician certification examinations.
Program of Study: Diagnostic and Therapeutic Services

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Pharmacy II

Course Code: 13021030 **Course Abbreviation**: PHARMII
Credits: 2 **Level**: 3
Prerequisites: One credit in biology, one credit in chemistry, and Pharmacy I
Corequisite: None
Recommended Prerequisites: Algebra I, Introduction to Pharmacy Science, and Pharmacy I
Recommended Corequisite: None

The Pharmacy II course provides students with the advanced knowledge and skills to explore various careers in the pharmacy field, including pharmacology, pharmacy law, medication errors, inventory pharmacy calculations, compounding, and workflow expectations in a pharmacy setting. Pharmacy II is designed to be the third course in a pathway leading to college and career readiness in the healthcare therapeutics professions. The course content aligns with the competencies of pharmacy technician certification examinations.
Program of Study: Diagnostic and Therapeutic Services

Physical Therapy I

Course Code: N1302128 **Course Abbreviation**: PHYTHER1
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Biology, Principles of Health Science or Principles of Allied Health, or Medical Terminology
Recommended Corequisite: None

Physical Therapy I is designed to provide basic concepts, knowledge, and skills needed to work within physical therapy practice under the supervision of a licensed physical therapist/physical therapist assistant. Specifically, the course focuses on proper management of patient care to safely assist patients/therapists; management of equipment as it relates to physical therapy; strengthening and conditioning; and communication skills to work effectively within a physical therapy practice. This course is designed for students in grades 10, 11, or 12 who desire to work in a physical therapy clinic and/or advance to become a licensed physical therapist/physical therapist assistant.
Program of Study: Exercise Science, Wellness, and Restoration

Physical Therapy II

Course Code: N1302134 **Course Abbreviation**: PHYTHER2
Credit: 1 **Level**: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Biology or Physical Therapy I
Recommended Corequisite: Anatomy and Physiology

The Physical Therapy II innovative course is intended for 11th and 12th-grade students. Students will build upon the foundational skills that students learned in Physical Therapy I by practicing skills such as musculoskeletal strength and range of motion (ROM) assessment, safety techniques, administering therapeutic exercise routines, and professional skills. Upon completing this course, students will have the foundational knowledge to pursue post-secondary education that prepare them for a career as a licensed physical therapist or physical therapist assistant.
Program of Study: Exercise Science, Wellness, and Restoration

Physics for Engineering

Course Code: 13037150 **Course Abbreviation**: PHYSENGR
Credit: 1 **Level**: 1
Prerequisites: One credit of Algebra I and one credit of chemistry, physics, or Integrated Physics and Chemistry (IPC)
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Physics for Engineering, students conduct laboratory and field investigations, use scientific and engineering practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems are described in terms of space, time, energy, and matter. Students study topics, including laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students apply physics concepts and perform laboratory experimentations for at least 40 percent of instructional time using safe practices.
Note: This course satisfies a high school science graduation requirement.
Programs of Study: Civil Engineering, Electrical Engineering, Engineering Foundations, and Mechanical and Aerospace Engineering

Pipefitting Technology I

Course Code: N1300425 **Course Abbreviation**: PIPETEC1
Credit: 1 **Level**: 2
Prerequisites: Algebra I and Geometry
Corequisite: None
Recommended Prerequisites: National Center for Construction Education and Research (NCCER) Core, Introduction to Manufacturing, Principles of Construction, or Construction Technology I
Recommended Corequisite: None

Students will learn the types of work performed, responsibilities and career opportunities within the industry, and safety principles associated with pipefitting. Additionally, students will learn care, selection, and use of hand and power tools of the trade and ladder and scaffold safety, selection, construction, and the associated hazards. Oxyfuel cutting and associated safety procedures will be reinforced. Students will learn the maintenance, operation, and safety of motorized equipment. This class may lead to the National Center for Construction Education and Research (NCCER) certification.
Program of Study: Plumbing and Pipefitting

Pipefitting Technology I + Pipefitting Technology I Lab

Course Code: N1300427 **Course Abbreviation**: PIPETECL1
Credits: 2 **Level**: 2
Prerequisites: Algebra I and Geometry
Corequisite: None
Recommended Prerequisites: National Center for Construction Education and Research (NCCER) Core, Introduction to Manufacturing, Principles of Construction, or Construction Technology I
Recommended Corequisite: None

Students will learn the types of work performed, responsibilities, career opportunities within the industry and safety principles associated with pipefitting. Additionally, students will learn care, selection and use of hand and power tools of the trade and ladder and scaffold safety, selection, construction and the associated hazards. Oxyfuel cutting and associated safety procedures will be reinforced. Students will learn the maintenance, operation and safety of motorized equipment. This class may lead to the National Center for Construction Education and Research (NCCER) certification.
Program of Study: Plumbing and Pipefitting

Pipefitting Technology II

Course Code: N1300426
Course Abbreviation: PIPETEC2
Credit: 1
Level: 3
Prerequisite: Pipefitting Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students will learn about, be able to identify and install various types of piping systems and valves. Students will learn to read detail and drawing sheets and how to use mathematics to solve problems related to Pipefitting construction. Students will also be educated in how to prepare, fabricate, and assemble threaded pipe, socket weld, and butt weld installations. Excavating per Occupational Safety and Health Administration (OSHA) standards as well as grading and elevations of trenching and backfilling will also be taught. The course may lead to National Center for Construction Education and Research (NCCER) certification.
Program of Study: Plumbing and Pipefitting

Pipefitting Technology II + Pipefitting Technology II Lab

Course Code: N1300428
Course Abbreviation: PIPETECL2
Credits: 2
Level: 3
Prerequisite: Pipefitting Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students will learn about, be able to identify and install various types of piping systems and valves. Students will learn to read detail and drawing sheets and how to use mathematics to solve problems related to pipefitting construction. Students will also be educated in how to prepare, fabricate, and assemble threaded pipe, socket weld, and butt weld installations. Excavating per Occupational Safety and Health Administration (OSHA) standards as well as grading and elevations of trenching and backfilling will also be taught. The course may lead to National Center for Construction Education and Research (NCCER) certification.
Program of Study: Plumbing and Pipefitting

Planning and Governance

Course Code: 13018700
Course Abbreviation: PLANGOV
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Government and Public Administration
Recommended Corequisite: None

Planning and Governance provides the opportunity for students to formulate plans and policies to meet social, economic, and physical needs of communities.
Program of Study: Government and Public Administration

Plumbing Technology I

Course Code: 13006000
Course Abbreviation: PLTECH1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Architecture, Principles of Construction, or Construction Technology I
Recommended Corequisite: None

In Plumbing Technology I, students will gain knowledge and skills needed to enter the industry as a plumbing apprentice, building maintenance technician, or supervisor or prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite and when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies.
Program of Study: Plumbing and Pipefitting

Plumbing Technology II

Course Code: 13006100
Course Abbreviation: PLTECH2
Credits: 2
Level: 3
Prerequisite: Plumbing Technology I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Plumbing Technology II, students will gain the advanced knowledge and skills needed to enter the industry as a plumber, building maintenance technician, or supervisor or prepare for a postsecondary degree in mechanical engineering. Students will acquire knowledge and skills in plumbing codes, industry workplace basics, and employer/customer expectations, including tool and jobsite safety, advanced plumbing mathematics, commercial drawings, basic electricity, hanger installation, supports and structural penetrations, roof drains, fixture installation, valves and faucets, and oxy-fuel safety. Students will also learn about setup, cutting, brazing and welding water system sizing; gas, drain, waste and vent installation and testing; and water heater installation.
Program of Study: Plumbing and Pipefitting

Political Science I

Course Code: 13018300
Course Abbreviation: POLISCI1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Government and Public Administration
Recommended Corequisite: None

Political Science I introduces students to political theory through the study of governments, public policies, political processes, systems, and behavior.
Programs of Study: Government and Public Administration, and Legal Studies

Political Science II

Course Code: 13018400
Course Abbreviation: POLISCI2
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Government and Public Administration or Political Science I
Recommended Corequisite: None

Political Science II uses a variety of learning methods and approaches to examine the processes, systems, and political dynamics of the United States and other nations. The dynamic component of this course includes current U.S. and world events.
Programs of Study: Government and Public Administration, and Legal Studies

Practicum in Agriculture, Food, and Natural Resources

Course Code:
13002500 (First Time Taken)
13002510 (Second Time Taken)
Course Abbreviation:
PRACAFNR1
PRACAFNR2
Credits: 2
Level: 4
Prerequisites: A minimum of two credits with at least one course in a Level 2 or higher course from the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food, and natural resources, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.
Programs of Study: Agricultural Technology and Mechanical Systems, Agriculture Business, Leadership, and Communications, Animal Science, Environmental and Natural Resources, Food Science and Technology, and Plant Science

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Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources

Course Code:
13002505 (First Time Taken)
13002515 (Second Time Taken)

Course Abbreviation:
EXPRAFNR1
EXPRAFNR2

Credits: 3

Level: 4

Prerequisites: A minimum of two credits with at least one course in a Level 2 or higher course from the Agriculture, Food, and Natural Resources career cluster

Corequisite: None

Recommended Prerequisite: None

Recommended Corequisite: None

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food, and natural resources, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Programs of Study: Agricultural Technology and Mechanical Systems, Agriculture Business, Leadership, and Communications, Animal Science, Environmental and Natural Resources, Food Science and Technology, and Plant Science

Practicum in Animation

Course Code:
13008450 (First Time Taken)
13008460 (Second Time Taken)

Course Abbreviation:
PRACANI1
PRACANI2

Credits: 2

Level: 4

Prerequisites: Animation ll + Animation ll Lab

Corequisite: None

Recommended Prerequisite: None

Recommended Corequisite: None

Building upon the concepts taught in Animation II and its corequisite Animation II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Program of Study: Graphic Design and Interactive Media

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Practicum in Animation + Extended Practicum in Animation

Course Code:
13008455 (First Time Taken)
13008465 (Second Time Taken)

Course Abbreviation:
EXPRANI1
EXPRANI2

Credits: 3
Level: 4
Prerequisites: Animation ll + Animation ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Building upon the concepts taught in Animation II and its corequisite Animation II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Graphic Design and Interactive Media

Practicum in Architectural Design

Course Code:
13004800 (First Time Taken)
13004810 (Second Time Taken)

Course Abbreviation:
PRACADS1
PRACADS2

Credits: 2
Level: 4
Prerequisite: Architectural Design ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study.
Program of Study: Architectural Drafting and Design

Practicum in Architectural Design + Extended Practicum in Architectural Design

Course Code:
13004805 (First Time Taken)
13004815 (Second Time Taken)

Course Abbreviation:
EXPRADS1
EXPRADS2

Credits: 3
Level: 4
Prerequisite: Architectural Design ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study.
Program of Study: Architectural Drafting and Design

Practicum in Audio/Video Production

Course Code:
13008700 (First Time Taken)
13008710 (Second Time Taken)

Course Abbreviation:
PRACAVP1
PRACAVP2

Credits: 2
Level: 4
Prerequisites: Audio/Video Production ll and Audio/Video Production ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Programs of Study: Digital Communications, and Programming and Software Development

Practicum in Audio/Video Production + Extended Practicum in Audio/Video Production

Course Code:
13008705 (First Time Taken)
13008715 (Second Time Taken)

Course Abbreviation:
EXPRAVP1
EXPRAVP2

Credits: 3
Level: 4
Prerequisites: Audio/Video Production ll and Audio/Video Production ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Programs of Study: Digital Communications, and Programming and Software Development

Practicum in Business Management

Course Code:
13012200 (First Time Taken)
13012210 (Second Time Taken)

Course Abbreviation:
PRACBM
PRACBM2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Touch System Data Entry and Business Management or Business Communication and Technologies
Recommended Corequisite: None

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and in a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.
Programs of Study: Accounting and Financial Services, Business Management, Entrepreneurship, Real Estate, and Retail Management (Regional)

Practicum in Business Management + Extended Practicum in Business Management

Course Code:
13012205 (First Time Taken)
13012215 (Second Time Taken)

Course Abbreviation:
EXPRBM
EXPRBM2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Touch System Data Entry and Business Management or Business Communication and Technologies
Recommended Corequisite: None

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and in a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.
Programs of Study: Accounting and Financial Services, Business Management, Entrepreneurship, Real Estate, and Retail Management (Regional)

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Practicum in Commercial Photography

Course Code:
13009250 (First Time Taken)
13009260 (Second Time Taken)

Course Abbreviation:
PRACCPH1
PRACCPH2

Credits: 2
Level: 4
Prerequisites: Commercial Photography I and Commercial Photography I Lab along with teacher recommendation
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.
Program of Study: Graphic Design and Interactive Media

Practicum in Commercial Photography + Extended Practicum in Commercial Photography

Course Code:
13009255 (First Time Taken)
13009265 (Second Time Taken)

Course Abbreviation:
EXPRCPH1
EXPRCPH2

Credits: 3
Level: 4
Prerequisites: Commercial Photography I and Commercial Photography I Lab along with teacher recommendation
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.
Program of Study: Graphic Design and Interactive Media

Practicum in Construction Management

Course Code:
13006200 (First Time Taken)
13006210 (Second Time Taken)

Course Abbreviation:
PRACCM1
PRACCM2

Credits: 2
Level: 4
Prerequisite: Construction Management II
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom.
Program of Study: Construction Management and Inspection

Practicum in Construction Management + Extended Practicum in Construction Management

Course Code:
13006205 (First Time Taken)
13006215 (Second Time Taken)

Course Abbreviation:
EXPRCM1
EXPRCM2

Credits: 3
Level: 4
Prerequisite: Construction Management ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom.
Program of Study: Construction Management and Inspection

Practicum in Construction Technology

Course Code:
13005250 (First Time Taken)
13005260 (Second Time Taken)

Course Abbreviation:
PRACCT1
PRACCT2

Credits: 2
Level: 4
Prerequisites: Construction Technology II, Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.
Programs of Study: Architectural Drafting and Design, Carpentry, Construction Management and Inspection, Electrical, HVAC and Sheet Metal, Masonry, and Plumbing and Pipefitting

Practicum in Construction Technology + Extended Practicum in Construction Technology

Course Code:
13005255 (First Time Taken)
13005265 (Second Time Taken)

Course Abbreviation:
EXPRCT1
EXPRCT2

Credits: 3
Level: 4
Prerequisites: Construction Technology ll, Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.
Programs of Study: Architectural Drafting and Design, Carpentry, Construction Management and Inspection, Electrical, HVAC and Sheet Metal, Masonry, and Plumbing and Pipefitting

Practicum in Culinary Arts

Course Code:
13022700 (First Time Taken)
13022710 (Second Time Taken)

Course Abbreviation:
PRACCUL1
PRACCUL2

Credits: 2
Level: 4
Prerequisite: Culinary Arts
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.
Program of Study: Culinary Arts

Practicum in Culinary Arts + Extended Practicum in Culinary Arts

Course Code:
13022705 (First Time Taken)
13022715 (Second Time Taken)

Course Abbreviation:
EXPRCUL1
EXPRCUL2

Credits: 3
Level: 4
Prerequisite: Culinary Arts
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.
Program of Study: Culinary Arts

Practicum in Digital Audio Technology

Course Code: N1300996
Course Abbreviation: PRACDAT
Credits: 2
Level: 4
Prerequisites: Digital Audio Technology I and Digital Audio Technology II
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Practicum in Digital Audio Technology course is the pinnacle experience for Digital Communications program graduates, focusing on digital audio and entertainment industry preparation. This capstone course builds on prior learning, emphasizing practical skill acquisition in broadcasting, streaming, podcasting, studio recording, and audio creation for various media. Beyond theoretical knowledge, the course offers hands-on experience, enabling students to enhance their portfolios. Notably, participants can earn industry-based certifications, such as Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign (Adobe-110), Audio-Visual Communications – Job Ready (NOCTI-937), Broadcasting and Journalism (NOCTI-953), and Adobe Certified Professional in Digital Video Using Adobe Premiere Pro (Adobe-110). This holistic approach equips students with the essential skills and certifications for success in the dynamic digital audio and entertainment field. This comprehensive approach equips students with the skills and certifications necessary for success in the dynamic digital audio and entertainment landscape.
Program of Study: Digital Communications

Practicum in Distribution and Logistics

Course Code:
13040470 (First Time Taken)
13040480 (Second Time Taken)

Course Abbreviation:
PRACDLG1
PRACDLG2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Distribution and Logistics is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or work based.
Programs of Study: Distribution, Logistics, and Warehousing, and Maritime (Regional)

Practicum in Distribution and Logistics + Extended Practicum in Distribution and Logistics

Course Code:
13040475 (First Time Taken)
13040485 (Second Time Taken)

Course Abbreviation:
EXPRDLG1
EXPRDLG2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Distribution and Logistics is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or work based.
Programs of Study: Distribution, Logistics, and Warehousing, and Maritime (Regional)

Practicum in Early Learning

Course Code:
13014520 (First Time Taken)
13014530 (Second Time Taken)

Course Abbreviation:
PRACEL1
PRACEL2

Credits: 2
Level: 4
Prerequisite: Child Guidance
Corequisite: None
Recommended Prerequisite: Child Development or Child Development Associate Foundations
Recommended Corequisite: None

Practicum in Early Learning is a field-based course that provides students background knowledge of early childhood development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher facilitator and an exemplary industry professional. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of early learning teachers, trainers, paraprofessionals, or other educational personnel.
Program of Study: Early Learning

Practicum in Early Learning + Extended Practicum in Early Learning

Course Code:
13014525 (First Time Taken)
13014535 (Second Time Taken)

Course Abbreviation:
EXPREL1
EXPREL2

Credits: 3
Level: 4
Prerequisite: Child Guidance
Corequisite: None
Recommended Prerequisite: Child Development or Child Development Associate Foundations
Recommended Corequisite: None

Practicum in Early Learning is a field-based course that provides students background knowledge of early childhood development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher facilitator and an exemplary industry professional. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of early learning teachers, trainers, paraprofessionals, or other educational personnel.
Program of Study: Early Learning

Practicum in Education and Training

Course Code:
13014500 (First Time Taken)
13014510 (Second Time Taken)

Course Abbreviation:
PRACEDT1
PRACEDT2

Credits: 2
Level: 4
Prerequisite: Instructional Practices
Corequisite: None
Recommended Prerequisites: Principles of Education and Training, Human Growth and Development, and Child Development
Recommended Corequisite: None

Practicum in Education and Training is a field-based course that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.
Program of Study: Teaching and Training

Practicum in Education and Training + Extended Practicum in Education and Training

Course Code:
13014505 (First Time Taken)
13014515 (Second Time Taken)

Course Abbreviation:
EXPREDT1
EXPREDT2

Credits: 3
Level: 4
Prerequisite: Instructional Practices
Corequisite: None
Recommended Prerequisites: Principles of Education and Training and Human Growth and Development
Recommended Corequisite: None

Practicum in Education and Training is a field-based course that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.
Program of Study: Teaching and Training

Practicum in Energy

Course Code: N1303910
Course Abbreviation: PRACENRG
Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended prerequisite: At least one of the following courses: Oil and Gas Production II/Lab, Occupational Safety and Environmental Technology I, Oil and Gas Production III, Career Preparation, Oil and Gas Production IV, Introduction to Process Technology, Introduction to Instrumentation and Electrical, Petrochemical Safety, Health, and Environment, Advanced Instrument and Electrical, AC/DC Electronics, Introduction to Renewable Energy, Energy and Natural Resource Technology + Lab, Environmental Sustainability (PLTW), Solid State Electronics, Scientific Research and Design or Digital Electronics
Recommended Corequisite: None

The Practicum in Energy course gives students the opportunity to apply what they have learned in the classroom in a real-world setting designed to prepare students for occupations in the Oil and Gas, Refinery, and Renewable Natural Resources industries. In this course, students will learn how to communicate in the field and work safely in a variety of situations and environments common in Energy occupations. Students will also learn about the energy balance, the distribution of power, the technology used in the field, and the regulations and environmental impact of the industry.
Programs of Study: Oil and Gas Exploration and Production, Refining and Chemical Processes, and Renewable Energy

Practicum in Engineering

Course Code:
12756080 (First Time Taken)
12756090 (Second Time Taken)

Course Abbreviation:
PRCENGR1
PRCENGR2

Credits: 2
Level: 4
Prerequisites: Algebra I and Geometry and a minimum of two credits with at least one course in a Level 2 or higher course from the Engineering career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Engineering is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in engineering, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.
Programs of Study: Biomedical Science, Civil Engineering, Cybersecurity, Electrical Engineering, Engineering Foundations, Geospatial Engineering and Land Surveying (Regional), Mechanical and Aerospace Engineering, Programming and Software Development, and Renewable Energy

Practicum in Engineering + Extended Practicum in Engineering

Course Code:
12756085 (First Time Taken)
12756095 (Second Time Taken)

Course Abbreviation:
EXPRENG1
EXPRENG2

Credits: 3
Level: 4
Prerequisites: Algebra I and Geometry and a minimum of two credits with at least one course in a Level 2 or higher course from the Engineering career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Engineering is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in engineering, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.
Programs of Study: Biomedical Science, Civil Engineering, Cybersecurity, Electrical Engineering, Engineering Foundations, Geospatial Engineering and Land Surveying (Regional), Mechanical and Aerospace Engineering, Programming and Software Development, and Renewable Energy

Practicum in Entrepreneurship

Course Code:
13011111 (First Time Taken)
13011112 (Second Time Taken)

Course Abbreviation:
PRACENT1
PRACENT2

Credits: 2

Level: 4

Prerequisite: None

Corequisite: None

Recommended Prerequisites: Entrepreneurship I and Entrepreneurship II, or successful completion of at least two courses in a CTE program of study

Recommended Corequisite: None

Practicum in Entrepreneurship provides students the opportunity to apply classroom learning and experiences to real-world business problems and opportunities in a free enterprise system while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or an unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

Note: Second Time Taken is not in a program of study and does not count for CCMR, and earns 1.1 weighted funding.

Programs of Study: Accounting and Financial Services, Agriculture Business, Leadership, and Communications, Animal Science, Automotive and Collision Repair, Business Management, Carpentry, Cosmetology and Personal Care Services (Regional), Culinary Arts, Diesel and Heavy Equipment Maintenance and Commercial Driver, Digital Communications, Electrical, Entrepreneurship, Exercise Science, Wellness, and Restoration, Family and Community Services, Graphic Design and Interactive Media, Health and Wellness, HVAC and Sheet Metal, Information Technology Support and Services, Lodging and Resort Management, Manufacturing Technology, Marketing and Sales, Masonry, Networking Systems, Plant Science, Plumbing and Pipefitting, (Regional), Printing and Imaging (Regional), Programming and Software Development, Real Estate, Travel, Tourism, and Attractions, Web Development, and Welding.

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Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship

Course Code:
13011121 (First Time Taken)
13011122 (Second Time Taken)

Course Abbreviation:
EXPRACENT1
EXPRACENT2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Entrepreneurship I and Entrepreneurship II, or successful completion of at least two courses in a CTE program of study
Recommended Corequisite: None

Practicum in Entrepreneurship provides students the opportunity to apply classroom learning and experiences to real-world business problems and opportunities in a free enterprise system while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or an unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.
Note: Second Time Taken is not in a program of study and does not count for CCMR, and earns 1.1 weighted funding.
Programs of Study: Accounting and Financial Services, Agriculture Business, Leadership, and Communications, Animal Science, Automotive and Collision Repair, Business Management, Carpentry, Cosmetology and Personal Care Services (Regional), Culinary Arts, Diesel and Heavy Equipment Maintenance and Commercial Driver, Digital Communications, Electrical, Entrepreneurship, Exercise Science, Wellness, and Restoration, Family and Community Services, Graphic Design and Interactive Media, Health and Wellness, HVAC and Sheet Metal, Information Technology Support and Services, Lodging and Resort Management, Manufacturing Technology, Marketing and Sales, Masonry, Networking Systems, Plant Science, Plumbing and Pipefitting, Printing and Imaging (Regional), Programming and Software Development, Real Estate, Travel, Tourism, and Attractions, Web Development, and Welding.

Practicum in Event and Meeting Planning

Course Code:
13022920 (First Time Taken)
13022930 (Second Time Taken)

Course Abbreviation:
PRACEMP1
PRACEMP2

Credits: 2
Level: 4
Prerequisites: A minimum of two credits with at least one credit in a Level 2 or higher course from the Hospitality and Tourism career cluster
Corequisite: None
Recommended Prerequisite: Event and Meeting Planning
Recommended Corequisite: None

The Practicum in Event and Meeting Planning course will reinforce the concepts and topics necessary for the comprehensive understanding of the meetings, events, expositions, and conventions (MEEC) industry. The central focus of this course is to integrate academic education with local MEEC businesses to prepare students for success in the work force and/or postsecondary education. Students will benefit from a combination of classroom instruction and a work- based learning experience. Students will learn employability skills, communication skills, customer service skills, and other activities related to job acquisition. The course is recommended for students who have completed the required prerequisites.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Travel, Tourism, and Attractions

Practicum in Event and Meeting Planning + Extended Practicum in Hospitality Services

Course Code:
13022925 (First Time Taken)
13022935 (Second Time Taken)

Course Abbreviation:
EXPREMP1
EXPREMP2

Credits: 3
Level: 4
Prerequisites: A minimum of two credits with at least one credit in a Level 2 or higher course from the Hospitality and Tourism career cluster
Corequisite: None
Recommended Prerequisite: Event and Meeting Planning
Recommended Corequisite: None

The Practicum in Event and Meeting Planning course will reinforce the concepts and topics necessary for the comprehensive understanding of the meetings, events, expositions, and conventions (MEEC) industry. The central focus of this course is to integrate academic education with local MEEC businesses to prepare students for success in the work force and/or postsecondary education. Students will benefit from a combination of classroom instruction and a work- based learning experience. Students will learn employability skills, communication skills, customer service skills, and other activities related to job acquisition. The course is recommended for students who have completed the required prerequisites.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Travel, Tourism, and Attractions

Practicum in Fashion Design

Course Code:
13009500 (First Time Taken)
13009510 (Second Time Taken)

Course Abbreviation:
PRACFAS1
PRACFAS2

Credits: 2
Level: 4
Prerequisites: Fashion Design ll + Fashion Design ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the business aspects of fashion, with emphasis on promotion and retailing. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Graphic Design and Interactive Media

Practicum in Fashion Design + Extended Practicum in Fashion Design

Course Code:
13009505 (First Time Taken)
13009515 (Second Time Taken)

Course Abbreviation:
EXPRFAS1
EXPRFAS2

Credits: 3
Level: 4
Prerequisites: Fashion Design ll + Fashion Design ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the business aspects of fashion, with emphasis on promotion and retailing. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Graphic Design and Interactive Media

Practicum in Graphic Design and Illustration

Course Code:
13009000 (First Time Taken)
13009010 (Second Time Taken)

Course Abbreviation:
PRACGRD1
PRACGRD2

Credits: 2
Level: 4
Prerequisites: Graphic Design and Illustration ll + Graphic Design and Illustration ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Graphic Design and Interactive Media

Practicum in Graphic Design and Illustration + Extended Practicum in Graphic Design and Illustration

Course Code:
13009005 (First Time Taken)
13009015 (Second Time Taken)

Course Abbreviation:
EXPRGRD1
EXPRGRD2

Credits: 3
Level: 4
Prerequisites: Graphic Design and Illustration ll + Graphic Design and Illustration ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Graphic Design and Interactive Media

Practicum in Health Science

Course Code:
13020500 (First Time Taken)
13020510 (Second Time Taken)

Course Abbreviation:
PRACHLS1
PRACHLS2

Credits: 2
Level: 4
Prerequisites: Health Science Theory and biology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Health Informatics, and Nursing Science

Practicum in Health Science + Extended Practicum in Health Science

Course Code:
13020505 (First Time Taken)
13020515 (Second Time Taken)

Course Abbreviation:
EXPRHLS1
EXPRHLS2

Credits: 3
Level: 4
Prerequisites: Health Science Theory and biology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Health Informatics, and Nursing Science

Practicum in Hospitality Services

Course Code:
13022900 (First Time Taken)
13022910 (Second Time Taken)

Course Abbreviation:
PRACHOS1
PRACHOS2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Hospitality Services
Recommended Corequisite: None

Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Travel, Tourism, and Attractions

Practicum in Hospitality Services + Extended Practicum in Hospitality Services

Course Code:
13022905 (First Time Taken)
13022915 (Second Time Taken)

Course Abbreviation:
EXPRHOS1
EXPRHOS2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Hospitality Services
Recommended Corequisite: None

Practicum in Hospitality Services is a unique practicum experience to provide opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Travel, Tourism, and Attractions

Practicum in Human Services

Course Code:
13025000 (First Time Taken)
13025010 (Second Time Taken)

Course Abbreviation:
PRACHUS1
PRACHUS2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the Human Services career cluster.
Programs of Study: Family and Community Services, and Health and Wellness

Practicum in Human Services + Extended Practicum in Human Services

Course Code:
13025005 (First Time Taken)
13025015 (Second Time Taken)

Course Abbreviation:
EXPRHUS1
EXPRHUS2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the Human Services career cluster.
Programs of Study: Family and Community Services, and Health and Wellness

Practicum in Information Technology

Course Code:
13028000 (First Time Taken)
13028010 (Second Time Taken)

Course Abbreviation:
PRACIT1
PRACIT2

Credits: 2
Level: 4
Prerequisites: A minimum of two high school information technology (IT) courses
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems, Programming and Software Development, and Web Development

Practicum in Information Technology + Extended Practicum in Information Technology

Course Code:
13028005 (First Time Taken)
13028015 (Second Time Taken)

Course Abbreviation:
EXPRIT1
EXPRIT2

Credits: 3
Level: 4
Prerequisites: A minimum of two high school information technology (IT) courses
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems, Programming and Software Development, and Web Development

Practicum in Interior Design

Course Code:
13004500 (First Time Taken)
13004510 (Second Time Taken)

Course Abbreviation:
PRACIDS1
PRACIDS2

Credits: 2
Level: 4
Prerequisite: Interior Design ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Interior Design is an occupationally specific course designed to provide job-specific skills through laboratory training, job shadowing, or work situations in areas compatible with identified career goals in interior design. In addition, students will be expected to develop knowledge and skills related to housing, furnishings, and equipment construction or equipment management and services.
Program of Study: Architectural Drafting and Design

Practicum in Interior Design + Extended Practicum in Interior Design

Course Code:
13004505 (First Time Taken)
13004515 (Second Time Taken)

Course Abbreviation:
EXPRIDS1
EXPRIDS2

Credits: 3
Level: 4
Prerequisite: Interior Design ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Interior Design is an occupationally specific course designed to provide job-specific skills through laboratory training, job shadowing, or work situations in areas compatible with identified career goals in interior design. In addition, students will be expected to develop knowledge and skills related to housing, furnishings, and equipment construction or equipment management and services.
Program of Study: Architectural Drafting and Design

Practicum in Law, Public Safety, Corrections, and Security

Course Code:
13030100 (First Time Taken)
13030110 (Second Time Taken)

Course Abbreviation:
PRACLPS1
PRACLPS2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Programs of Study: Fire Science, Law Enforcement, and Legal Studies

Practicum in Law, Public Safety, Corrections, and Security + Extended Practicum in Law, Public Safety, Corrections, and Security

Course Code:
13030105 (First Time Taken)
13030115 (Second Time Taken)

Course Abbreviation:
EXPRLPS1
EXPRLPS2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Programs of Study: Fire Science, Law Enforcement, and Legal Studies

Practicum in Local, State, and Federal Government

Course Code:
13019000 (First Time Taken)
13019010 (Second Time Taken)

Course Abbreviation:
PRACLSF1
PRACLSF2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students in the Practicum in Local, State, and Federal Government will concurrently learn advanced concepts of political science and government workings in the classroom setting and in the workplace. In addition, students will apply technical skills pertaining to government and public administration in a direct mentorship by individuals in professional settings such as government, public management and administration, national security, municipal planning, foreign service, revenue, taxation, and regulation.
Program of Study: Government and Public Administration

Practicum in Local, State, and Federal Government + Extended Practicum in Local, State, and Federal Government

Course Code:
13019005 (First Time Taken)
13019015 (Second Time Taken)

Course Abbreviation:
EXPRLSF1
EXPRLSF2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students in the Practicum in Local, State, and Federal Government will concurrently learn advanced concepts of political science and government workings in the classroom setting and in the workplace. In addition, students will apply technical skills pertaining to government and public administration in a direct mentorship by individuals in professional settings such as government, public management and administration, national security, municipal planning, foreign service, revenue, taxation, and regulation.
Program of Study: Government and Public Administration

Practicum in Manufacturing

Course Code:
13033000 (First Time Taken)
13033010 (Second Time Taken)

Course Abbreviation:
PRACMAN1
PRACMAN2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), Drone (Unmanned Vehicle) (Regional), Electronics Technology (Regional), Industrial Maintenance, Manufacturing Technology, Robotics and Automation Technology, and Welding

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Practicum in Manufacturing + Extended Practicum in Manufacturing

Course Code:
13033005 (First Time Taken)
13033015 (Second Time Taken)

Course Abbreviation:
EXPRMAN1
EXPRMAN2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), Drone (Unmanned Vehicle) (Regional), Electronics Technology (Regional), Industrial Maintenance, Manufacturing Technology, Robotics and Automation Technology, and Welding

Practicum in Marketing

Course Code:
13034800 (First Time Taken)
13034810 (Second Time Taken)

Course Abbreviation:
PRACMKT1
PRACMKT2

Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Practicum in Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions.
Programs of Study: Entrepreneurship, and Marketing and Sales

Practicum in Marketing + Extended Practicum in Marketing

Course Code:
13034805 (First Time Taken)
13034815 (Second Time Taken)

Course Abbreviation:
EXPRMKT1
EXPRMKT2

Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Practicum in Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions.
Programs of Study: Entrepreneurship, and Marketing and Sales

Practicum in Masonry Technology

Course Code:
13006450 (First Time Taken)
13006460 (Second Time Taken)

Course Abbreviation:
PRACMAS1
PRACMAS2

Credits: 2
Level: 4
Prerequisite: Masonry Technology ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Masonry Technology is an occupationally specific course designed to provide classroom technical instruction or work-based learning experiences. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom. Trade and industrial education provides the knowledge, skills, and technologies required for employment in masonry construction. Students will develop knowledge of the concepts and skills related to this trade in order to apply them to personal/career development. Trade and industrial education depends on and supports integration of academic, career, and technical knowledge and skills. To prepare for success, students must have opportunities to reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. For safety and liability considerations, including power tools usage during training, limiting course enrollment to 15 students is recommended.
Program of Study: Masonry

Practicum in Masonry Technology + Extended Practicum in Masonry Technology

Course Code:
13006455 (First Time Taken)
13006465 (Second Time Taken)

Course Abbreviation:
EXPRMAS1
EXPRMAS2

Credits: 3
Level: 4
Prerequisite: Masonry Technology ll
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Masonry Technology is an occupationally specific course designed to provide classroom technical instruction or work-based learning experiences. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom. Trade and industrial education provides the knowledge, skills, and technologies required for employment in masonry construction. Students will develop knowledge of the concepts and skills related to this trade in order to apply them to personal/career development. Trade and industrial education depends on and supports integration of academic, career, and technical knowledge and skills. To prepare for success, students must have opportunities to reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. For safety and liability considerations, including power tools usage during training, limiting course enrollment to 15 students is recommended.
Program of Study: Masonry

Practicum in Nursing

Course Code: 13021230
Course Abbreviation: PRACNRS
Credits: 2
Level: 4
Prerequisites: One credit in biology, one credit in chemistry, and at least one course in a Level 2 or higher course in the Nursing Science program of study
Corequisite: None
Recommended Prerequisites: Science of Nursing, Medical Terminology, and Anatomy and Physiology
Recommended Corequisite: None

Practicum in Nursing is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.
Program of Study: Nursing Science

Practicum in Printing and Imaging Technology

Course Code:
13009800 (First Time Taken)
13009810 (Second Time Taken)
Course Abbreviation:
PRACPRI1
PRACPRI2
Credits: 2
Level: 4
Prerequisites: Printing and Imaging Technology ll + Printing and Imaging Technology ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the printing industry with a focus on finishing and bindery operations and customer-based projects. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Printing and Imaging (Regional)

Practicum in Printing and Imaging Technology + Extended Practicum in Printing and Imaging Technology

Course Code:
13009805 (First Time Taken)
13009815 (Second Time Taken)
Course Abbreviation:
EXPRPRI1
EXPRPRI2
Credits: 3
Level: 4
Prerequisites: Printing and Imaging Technology ll + Printing and Imaging Technology ll Lab
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the printing industry with a focus on finishing and bindery operations and customer-based projects. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.
Program of Study: Printing and Imaging (Regional)

Practicum in Transportation Systems

Course Code:
13040450 (First Time Taken)
13040460 (Second Time Taken)
Course Abbreviation:
PRACTRS1
PRACTRS2
Credits: 2
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.
Programs of Study: Automotive and Collision Repair, Aviation Maintenance, Aviation (Pilots), Diesel and Heavy Equipment Maintenance and Commercial Driver, Distribution, Logistics, and Warehousing, and Maritime (Regional)

Practicum in Transportation Systems + Extended Practicum in Transportation Systems

Course Code:
13040455 (First Time Taken)
13040465 (Second Time Taken)
Course Abbreviation:
EXPRTRS1
EXPRTRS2
Credits: 3
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.
Programs of Study: Automotive and Collision Repair, Aviation Maintenance, Aviation (Pilots), Diesel and Heavy Equipment Maintenance and Commercial Driver, Distribution, Logistics, and Warehousing, and Maritime (Regional)

Precision Metal Manufacturing l

Course Code: 13032500
Course Abbreviation: PREMMAN1
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Manufacturing and completion of or concurrent enrollment in Algebra l or Geometry
Recommended Corequisite: None

Precision Metal Manufacturing I will provide the knowledge, skills, and technologies required for employment in precision machining. While the course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course may address a variety of materials such as plastics, ceramics, and wood in addition to metal. Students will develop knowledge of the concepts and skills related to precision metal manufacturing to apply them to personal and career development. This course supports integration of academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. This course is designed to provide entry-level employment for the student or articulated credit integration into a community college and dual credit with a community college with completion of the advanced course.
Program of Study: Manufacturing Technology

Precision Metal Manufacturing II

Course Code: 13032600
Course Abbreviation: PREMMAN2
Credits: 2
Level: 4
Prerequisite: Precision Metal Manufacturing l
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Precision Metal Manufacturing II Lab

Precision Metal Manufacturing II will provide students the knowledge, skills, and technologies required for employment in precision machining. While this course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course addresses a variety of materials such as plastics, ceramics, and wood in addition to metal. Students will develop knowledge of the concepts and skills related to these systems to apply them to personal and career development. This course supports integration of academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. This course is designed to provide entry-level employment for the student or articulated credit integration into a community college and dual credit with a community college with completion of the advanced course.
Program of Study: Manufacturing Technology

Precision Metal Manufacturing II + Precision Metal Manufacturing II Lab

Course Code: 13032610
Course Abbreviation: PRMMLAB2
Credits: 3
Level: 4
Prerequisite: Precision Metal Manufacturing l
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Precision Metal Manufacturing II will provide students the knowledge, skills, and technologies required for employment in precision machining. While this course is designed to provide necessary skills in machining, it also provides a real-world foundation for any engineering discipline. This course addresses a variety of materials such as plastics, ceramics, and wood in addition to metal. Students will develop knowledge of the concepts and skills related to these systems to apply them to personal and career development. This course supports integration of academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success. This course is designed to provide entry-level employment for the student or articulated credit integration into a community college and dual credit with a community college with completion of the advanced course.
Program of Study: Manufacturing Technology

Principles of Agriculture, Food, and Natural Resources

Course Code: 13000200
Course Abbreviation: PRINAFNR
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Principles of Agriculture, Food, and Natural Resources, students explore major areas of agriculture, food, and natural resources, including organizations, agribusiness leadership and communications, plant science, animal science, food science and technology, agricultural technology and mechanical systems, and environmental and natural resources. To prepare for careers in agriculture, food, and natural resources, students must attain academic knowledge and skills, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Programs of Study: Agricultural Technology and Mechanical Systems, Agriculture Business, Leadership, and Communications, Animal Science, Environmental and Natural Resources, Food Science and Technology, and Plant Science

Principles of Allied Health

Course Code: N1302105
Course Abbreviation: ALLHLTH
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Allied Health is designed to provide the basic concepts, knowledge and skills necessary for a health career in an allied health field. This course will focus on concepts associated with the healthcare industry standards, respiratory therapy, physical and occupational therapy, radiological imaging, and pharmaceuticals. This course is designed for students that are interested in pursuing careers in the allied health fields.
Programs of Study: Diagnostic and Therapeutic Services, and Exercise Science, Wellness, and Restoration

Principles of Applied Engineering

Course Code: 13036200
Course Abbreviation: PRAPPENG
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and be able to make informed career decisions.
Programs of Study: Civil Engineering, Electrical Engineering, Electronics Technology (Regional), Engineering Foundations, Geospatial Engineering and Land Surveying (Regional), Manufacturing Technology, Mechanical and Aerospace Engineering, Renewable Energy, and Robotics and Automation Technology

Principles of Architecture

Course Code: 13004210
Course Abbreviation: PRINARC
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.
Programs of Study: Architectural Drafting and Design, Carpentry, Construction Management and Inspection, Electrical, Geospatial Engineering and Land Surveying (Regional), HVAC and Sheet Metal, Masonry, and Plumbing and Pipefitting

Principles of Arts, Audio/Video Technology, and Communications

Course Code: 13008200
Course Abbreviation: PRINAAVTC
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in the Arts, Audio Visual Technology, and Communications career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.
Programs of Study: Digital Communications, Graphic Design and Interactive Media, and Printing and Imaging (Regional)

Principles of Biomedical Science (PLTW)

Course Code: N1302092
Course Abbreviation: PRBIOSCI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Biomedical Science (PBS) is a high school course providing foundational knowledge and skills in biology, anatomy and physiology, genetics, microbiology, and epidemiology; it engages students in applying knowledge and skills to real-world situations, cases, and problems. Students take on roles of different medical professionals and are challenged in various scenarios, including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems. Students develop skills in technical documentation to communicate experimental findings and solutions to problems. They explore how connections to other disciplines, such as computer science and engineering, shape the future of medicine. In addition, they demonstrate collaboration techniques that connect with professionals across any field.
Program of Study: Biomedical Science

Principles of Bioscience

Course Code: 13036300
Course Abbreviation: PRBIOSCI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Bioscience provides an overview of biotechnology, bioengineering, and related fields. Topics related to genetics, proteins, and nucleic acids reinforce the applications of biology content. Students will further study the increasingly important agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of nanoscience and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology.
Program of Study: Biomedical Science

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Principles of Business, Marketing, and Finance

Course Code: 13011200
Course Abbreviation: PRINBMF
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.
Programs of Study: Accounting and Financial Services, Business Management, Entrepreneurship, Lodging and Resort Management, Marketing and Sales, Real Estate, and Retail Management (Regional)

Principles of Community Services

Course Code: N1302542
Course Abbreviation: COMMSERV
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The purpose of this course is to introduce high school students to the field of nonprofits/community service, as well as explore career options that assist individuals and families in need. The students will work to understand policies, design community service plans, and develop a portfolio of different community and state resources. Students will also be encouraged to job shadow, volunteer for community service-based experiences, and participate in service-learning opportunities.
Programs of Study: Exercise Science, Wellness, and Restoration, Family and Community Services, and Health and Wellness

Principles of Construction

Course Code: 13004220
Course Abbreviation: PRINCON
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.
Programs of Study: Architectural Drafting and Design, Carpentry, Construction Management and Inspection, Electrical, HVAC and Sheet Metal, Masonry, and Plumbing and Pipefitting

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Principles of Cosmetology Design and Color Theory

Course Code: 13025050
Course Abbreviation: PRICOSMO
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Human Services
Recommended Corequisite: None

In Principles of Cosmetology Design and Color Theory, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. Students may begin to earn Texas Department of Licensing and Regulation (TDLR) hours toward a Cosmetology Operator License.
Program of Study: Cosmetology and Personal Care Services (Regional)

Principles of Diagnostic Healthcare

Course Code: N1302106
Course Abbreviation: DIGHLTH
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Principles of Diagnostic Healthcare course is designed to provide students with an overview of the education and career opportunities in this rapidly growing and significant sector of health care. Students will be provided with experiential learning activities in clinical diagnostic applications while building the knowledge and skills needed to investigate and analyze disease processes. This course is designed to foster student interest and allow for exploration of diagnostic healthcare professions and industry-based certifications. The goal is to prepare students for 21st-century careers and with an emphasis on the development of knowledge, understanding, and application of science, biology, technology, and mathematical skills. Clinical diagnostic careers require students to generate intellectual inquiry, entice critical thinking, and use problem-solving and analytical skills that will lead to data-driven decisions. Areas of concentration will include laboratory sciences, digital radiography, nuclear medicine, electrocardiograms (EKGs) and ophthalmic technologies.
Program of Study: Diagnostic and Therapeutic Services

Principles of Distribution and Logistics

Course Code: 13039260
Course Abbreviation: PRINDILG
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Principles of Distribution and Logistics, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to distribution and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.
Programs of Study: Distribution, Logistics, and Warehousing, Maritime (Regional), and Refining and Chemical Processes

Principles of Education and Training

Course Code: 13014200
Course Abbreviation: PRINEDTR
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Education and Training is designed to introduce learners to the various careers within the Education and Training career cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training career cluster. Students are introduced to societal influences of education and various school models. Additionally, students learn the role and responsibilities of a classroom educator. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.
Programs of Study: Early Learning, and Teaching and Training

Principles of Exercise Science and Wellness

Course Code: N1302107
Course Abbreviation: EXSCIWL
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Principles of Exercise Science and Wellness course is designed to provide for the development of knowledge and skills in fields that assist patients with maintaining physical, mental, and emotional health. Students in this course will understand diet and exercise, as well as techniques to help patients recover from injury, illness, and disease. They will also learn about introductory health science topics such as employability skills, lifespan development, and ethical and legal standards. Students who take this course are ideally interested in such careers as physical therapy, athletic training, nutrition, personal training, and recreational therapy. The central focus of this course is to provide students with a solid foundation in the topics of health and wellness and increase their interest in the various careers available in these fields.
Program of Study: Exercise Science, Wellness, and Restoration

Principles of Government and Public Administration

Course Code: 13018200
Course Abbreviation: PRINGPA
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Government and Public Administration introduces students to foundations of governmental functions and career opportunities within the United States and abroad. Students will examine governmental documents such as the U.S. Constitution, current U.S. Supreme Court and federal court decisions, and the Bill of Rights.
Program of Study: Government and Public Administration

Principles of Health Informatics

Course Code: N1302108
Course Abbreviation: HLTHINF
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Principles of Health Informatics course introduces students to one of the fastest-growing areas in academia and industry professions. A large gap exists between state-of-the-art computer technologies and the state of affairs in healthcare information technology. The result is an increased demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries while managing the vast amount of data generated by these systems.
Program of Study: Health Informatics

Principles of Health Science

Course Code: 13020200
Course Abbreviation: PRINHLSC
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.
Programs of Study: Biomedical Science, Diagnostic and Therapeutic Services, Exercise Science, Wellness, and Restoration, Health Informatics, and Nursing Science

Principles of Hospitality and Tourism

Course Code: 13022200
Course Abbreviation: PRINHOSP
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Travel, Tourism, and Attractions

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Principles of Human Services

Course Code: 13024200
Course Abbreviation: PRINHUSR
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services career cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or in-demand human services careers.
Programs of Study: Early Learning, Family and Community Services, Health and Wellness, and Teaching and Training

Principles of Information Technology

Course Code: 13027200
Course Abbreviation: PRINIT
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.
Programs of Study: Cybersecurity, Information Technology Support and Services, Networking Systems, Programming and Software Development, and Web Development

Principles of Law, Public Safety, Corrections, and Security

Course Code: 13029200
Course Abbreviation: PRINLPCS
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.
Programs of Study: Fire Science, Government and Public Administration, Law Enforcement, and Legal Studies

Principles of Manufacturing

Course Code: 13032200
Course Abbreviation: PRINMAN
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I or Geometry
Recommended Corequisite: None

In Principles of Manufacturing, students are introduced to knowledge and skills used in the proper application of principles of manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities. Students will gain an understanding of what employers require to gain and maintain employment in manufacturing careers.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), Electronics Technology (Regional), Industrial Maintenance, Manufacturing Technology, Robotics and Automation Technology, and Welding

Principles of Maritime Science

Course Code: N1304661
Course Abbreviation: PRMSCI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Principles of Maritime Science course is designed to instruct students in the principles of maritime science as outlined by the Code of Federal Regulations (CFR) directly related to the National Maritime Center and the Merchant Mariner Credentialing Program. Students enrolled in this course will identify career opportunities, skills, abilities, tools, certifications, and safety measures for sea-based maritime careers. Students will also understand components, systems, equipment, production, and safety regulations associated with maritime industries. A baseline understanding of ships and maritime systems is developed to support assessment of the impact, benefit, and risk of decisions involving the design, acquisition, operation, regulation, law enforcement, damage control, maintenance, and salvage of ships and maritime systems. This course will also inform students on the most effective and efficient manners to assure a safe, economically efficient, and environmentally sound maritime system with the intent to lead to advanced coursework in maritime studies in later grades.
Program of Study: Maritime (Regional)

Principles of Nursing Science

Course Code: N1302109
Course Abbreviation: NURSSCI
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The Principles of Nursing Science course introduces students to basic principles of the profession of nursing. The goals/student outcomes for the course include knowledge of the history of nursing, an introduction to nursing theory, professionalism (teamwork, communication, conflict resolution), legal/ethical issues in nursing, infection control, safety, and customer (patient) satisfaction. Skills learned include vital signs and how to document on a graphic record, patient positioning/transferring, bed-making, feeding, and personal protective equipment (PPE).
Program of Study: Nursing Science

Principles of Therapeutic Healthcare

Course Code: N1302110
Course Abbreviation: THERHLTH
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Biology

The Principles of Therapeutic Healthcare course is an introductory class for students who are interested in pursuing careers within the therapeutic pathway of the healthcare industry. Principles of Therapeutic Healthcare will provide students an overview of the knowledge, skills and abilities associated with careers within the therapeutic pathway of the healthcare industry. These careers include direct patient care jobs, rehabilitation and jobs caring for individuals with physical and developmental delays.
Program of Study: Diagnostic and Therapeutic Services

Principles of Transportation Systems

Course Code: 13039250
Course Abbreviation: PRINTRSY
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.
Programs of Study: Automotive and Collision Repair, Aviation Maintenance, Aviation (Pilots), Diesel and Heavy Equipment Maintenance and Commercial Driver, Distribution, Logistics, and Warehousing, and Maritime (Regional)

Printing and Imaging Technology I

Course Code: 13009600
Course Abbreviation: PRIMTEC1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: Printing and Imaging Technology I Lab

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an understanding of the printing industry with a focus on digital prepress and digital publishing.
Program of Study: Printing and Imaging (Regional)

Printing and Imaging Technology l + Printing and Imaging Technology l Lab

Course Code: 13009610
Course Abbreviation: PRILAB1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to demonstrate an understanding of the printing industry with a focus on digital prepress and digital publishing. Districts are encouraged to offer this lab in a consecutive block with Printing and Imaging Technology I to allow students sufficient time to master the content of both courses.
Program of Study: Printing and Imaging (Regional)

Printing and Imaging Technology ll

Course Code: 13009700
Course Abbreviation: PRIMTEC2
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Printing and Imaging Technology l + Printing and Imaging Technology l Lab
Recommended Corequisite: Printing and Imaging Technology II Lab

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing advanced knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the printing industry with a focus on digital prepress and desktop digital publishing.
Program of Study: Printing and Imaging (Regional)

Printing and Imaging Technology ll + Printing and Imaging Technology ll Lab

Course Code: 13009710
Course Abbreviation: PRILAB2
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Printing and Imaging Technology I + Printing and Imaging Technology I Lab
Recommended Corequisite: None

Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing advanced knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the printing industry with a focus on digital prepress and desktop digital publishing. Districts are encouraged to offer this lab in a consecutive block with Printing and Imaging Technology II to allow students sufficient time to master the content of both courses.
Program of Study: Printing and Imaging (Regional)

Professional Communications

Course Code: 13009900
Course Abbreviation: PROFCOMM
Credit: .5
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.
Note: This course satisfies a speech credit or skills graduation requirement.
Programs of Study: Agriculture Business, Leadership, and Communications, Digital Communications, Family and Community Services, and Real Estate

Professional Standards and Communication in Agribusiness

Course Code: 13000800
Course Abbreviation: PROSAFNR
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Professional Standards and Communication in Agribusiness focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. To prepare for careers in agribusiness systems, students must attain academic knowledge and skills, acquire technical knowledge and skills related to leadership development and communications in agriculture, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations.
Program of Study: Agriculture Business, Leadership, and Communications

Programmable Logic Controller I

Course Code: N1303689
Course Abbreviation: PROLGCNT1
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Applied Engineering or Principles of Manufacturing
Recommended Corequisite: None

Programmable Logic Controller I is a course designed to introduce students to the function and operation of Programmable Logic Controllers (PLC) through academic and applied instruction. Students will be introduced to relevant terminology, the components that make up a PLC, how PLC communicates with external components and other concepts relating to the use of PLC's in the manufacturing industry. Students will participate in structured, applied learning exercises taken from existing PLC applications. Students will also learn how to read ladder logic diagrams and ultimately write their first program. This course is recommended for students in grade 10 through 12. The central focus of this course is for students to gain an understanding of how programmable logic controllers work and how they are used in automated industries.
Programs of Study: Electrical Engineering, and Robotics and Automation Technology

Programmable Logic Controller II

Course Code: N1303690 **Course Abbreviation**: PROLGCNT2
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Applied Engineering or Principles of Manufacturing and Programmable Logic Controllers (PLC) I
Recommended Corequisite: None

The purpose of the Programmable Logic Controllers (PLC) II course is to demonstrate advanced knowledge of programming of programmable logic controllers (PLC) by incorporating the use of timers, counters, and other advanced functions. Students who complete the PLC II course will gain hands-on experience in the use of PLCs in industry and be able to troubleshoot the PLCs in common industrial applications. Additionally, the course includes an introduction to human machine interfaces (HMI) and networking. The PLC II course aligns to industry standards for various brand PLCs, and the outcomes from this course will prepare the students for postsecondary education and career readiness in the industrial maintenance/manufacturing industry.
Programs of Study: Electrical Engineering, and Robotics and Automation Technology

Programming for Engineers

Course Code: 12756005 **Course Abbreviation**: PROGENGR
Credit: 1 **Level**: 3
Prerequisites: Algebra I and Principles of Applied Engineering, Physics for Engineering, Introduction to Computer-Aided Design and Drafting, or Introduction to Engineering Design
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Students enrolled in Programming for Engineers focus on understanding, writing, evaluating, and troubleshooting code to solve engineering problems. Students use the engineering process and computational thinking to write computer programs for real-world solutions. Students explore autonomous systems, sensors, and careers to integrate computational thinking within their engineering mindset. Students spend at least 40% of the instructional time completing hands-on, real-world projects.
Programs of Study: Civil Engineering and Engineering Foundations

Public Management and Administration

Course Code: 13018600 **Course Abbreviation**: PUBMANAD
Credit: 1 **Level**: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Government and Public Administration, or Business Management, or Business Law
Recommended Corequisite: None

Public Management and Administration reviews actions and activities that governments and nonprofit administrations commonly use and that resemble private-sector management. Students will be introduced to management tools that maximize the effectiveness of different types and styles of administrators and affect the quality of life of citizens in the community.
Program of Study: Government and Public Administration

Quality Assurance for Biosciences

Course Code: N1303771
Course Abbreviation: QABIOS
Credit: 1
Level: 3
Prerequisite: Biotechnology 1
Corequisite: Biotechnology 1
Recommended Prerequisite: None
Recommended Corequisite: None

Quality Assurance for the Biosciences is designed to introduce the student to quality principles and regulatory affairs as they apply to the biotechnology, biopharmaceutical, and biomedical device industries. This course focuses on exploring online regulatory websites, such as FDA.gov, discovering how new regulations arise, and learning how to find and understand them. This course is a broad overview spanning regulations of drugs, biologics, medical devices, food, and other products; however, students are encouraged to investigate further in areas that interest them through a capstone creative project.
Program of Study: Biomedical Science

Range Ecology and Management

Course Code: 13001600
Course Abbreviation: RECOMGT
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Range Ecology and Management is designed to develop students' understanding of rangeland ecosystems and sustainable forage production. To prepare for careers in environmental and natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to environmental and natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Environmental and Natural Resources

Range Ecology and Management + Agricultural Laboratory and Field Experience

Course Code: 13001610
Course Abbreviation: RECOMGLAB
Credits: 2
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Range Ecology and Management is designed to develop students' understanding of rangeland ecosystems and sustainable forage production. To prepare for careers in environmental and natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to environmental and natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Environmental and Natural Resources

Raster-Based Geographic Information Systems

Course Code: 13027550 **Course Abbreviation**: RASGIS
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Geographic Information Systems
Recommended Corequisite: None

In Raster-Based Geographic Information Systems (GIS), students study local problems; acquire information, including images or aerial photographs; process the acquired data; and merge the acquired data with vector data. Students plan, conduct, and present solutions for locally based problems.
Programs of Study: Distribution, Logistics, and Warehousing, Geospatial Engineering and Land Surveying (Regional), and Information Technology Support and Services

Respiratory Therapy I

Course Code: 13021120 **Course Abbreviation**: RESPTHI
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Respiratory Therapy I is a technical lab course that addresses knowledge and skills related to cardiopulmonary medicine. Respiratory therapists are specialized healthcare practitioners trained in cardiopulmonary medicine to work therapeutically with people suffering from cardiopulmonary diseases. Students will learn basic knowledge and skills performed by respiratory therapists using equipment such as: stethoscopes, sphygmomanometers, thermometers, pulse oximeters, oxygen delivery devices (nasal cannula, masks of various types), nebulizers, and airway clearance and hyperinflation therapy devices.
Program of Study: Diagnostic and Therapeutic Services

Respiratory Therapy II

Course Code: 13021122 **Course Abbreviation**: RESPTHII
Credit: 1 **Level**: 4
Prerequisite: Respiratory Therapy I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Respiratory Therapy II is a technical lab course that addresses knowledge and skills related to critical care and cardiopulmonary medicine. Respiratory therapists are specialized healthcare practitioners trained in cardiopulmonary medicine to work therapeutically with people suffering from cardiopulmonary diseases. Students will learn advanced knowledge and skills performed by respiratory therapists using equipment such as stethoscopes, sphygmomanometers, thermometers, pulse oximeters and monitors, oxygen delivery devices (nasal cannula, masks of various types), nebulizers, airway clearance and hyperinflation therapy devices, spirometers, and intubation mannequin heads and equipment (endotracheal tubes, laryngoscopes, stylets).
Program of Study: Diagnostic and Therapeutic Services

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Retail Management

Course Code: 13011133 **Course Abbreviation**: RTLMGMT
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Business, Marketing, and Finance career cluster
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Retail Management is designed as a comprehensive introduction to the principles and practices of retail management. The course explores the process of promoting greater sales and customer satisfaction by gaining a better understanding of the consumers of the goods and services provided by a company. The course provides an overview of the strategies involved in the retail process such as distributing finished products created by the business to consumers and determining what buyers want and require from the retail market.
Programs of Study: Marketing and Sales, and Retail Management (Regional)

Revenue, Taxation, and Regulation

Course Code: 13018500 **Course Abbreviation**: REVTAXRE
Credit: 1 **Level**: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Government and Public Administration or Accounting I and II
Recommended Corequisite: None

Revenue, Taxation, and Regulation provides an overview of law and investigative principles and follows agency procedures to examine evidence and ensure revenue compliance. In addition, students will learn to facilitate clear and positive communication with taxpayers and become familiar with data analysis systems and revenue-related financial problems. Students will prepare projects and class activities to simulate the skills needed to enforce legal compliance and regulatory standards.
Program of Study: Government and Public Administration

Robotics I

Course Code: 13037000 **Course Abbreviation**: ROBOTIC1
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Applied Engineering
Recommended Corequisite: None

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.
Programs of Study: Drone (Unmanned Vehicle) (Regional), Electrical Engineering, Engineering Foundations, and Robotics and Automation Technology

Robotics II

Course Code: 13037050
Course Abbreviation: ROBOTIC2
Credit: 1
Level: 3
Prerequisite: Robotics I
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through the implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Note: This course satisfies a high school mathematics graduation requirement.

Programs of Study: Drone (Unmanned Vehicle) (Regional), Electrical Engineering, Engineering Foundations, and Robotics and Automation Technology

Science of Nursing

Course Code: N1302129
Course Abbreviation: SCINURS
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Nursing Science or Principles of Health Science
Recommended Corequisite: None

The Science of Nursing course introduces students to basic research-based concepts in nursing. Topics include the nursing process, the importance of critical thinking to patient care, regulatory agencies, and professional organizations. Instruction includes skills needed to pursue a nursing degree and training requirements required for specialty nursing roles. Knowledge and skills learned will include emergency care, patient assessment, basic interpretation of vital signs, identification of patients with physical and mental disabilities, patient positioning, use of assistive devices, and application of nursing theories in patient care plans.

Program of Study: Nursing Science

Scientific Research and Design

Course Code:
13037200 (Scientific Research and Design)
13037210 (Scientific Research and Design II)
13037220 (Scientific Research and Design III)

Course Abbreviation:
SCIRD
SCIRD2
SCIRD3

Credit: 1
Level: 4
Prerequisites: Biology, and one credit of the following: Physics for Engineering, chemistry, Integrated Physics and Chemistry (IPC), or physics
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Scientific Research and Design allows districts and schools flexibility to develop local curriculum to supplement a program of study or coherent sequence. The course has the components of any rigorous scientific or CTE program of study, including problem identification, investigation design, data collection, data analysis, formulation, and presentation of conclusions. These components are integrated with the CTE emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. Students must meet the 40% laboratory and fieldwork requirement. Students may take this course with different course content for a maximum of three credits.
Note: This course satisfies a high school science graduation requirement.
Additional Note: Second Time Taken and Third Time Taken are not in a program of study, do not count for CCMR, and earn 1.1 weighted funding.
Programs of Study: Agricultural Technology and Mechanical Systems, Animal Science, Aviation (Pilots), Biomedical Science, Civil Engineering, Drone (Unmanned Vehicle) (Regional), Electrical Engineering, Engineering Foundations, Environmental and Natural Resources, Food Science and Technology, Geospatial Engineering and Land Surveying (Regional), Mechanical and Aerospace Engineering, Plant Science, Programming and Software Development, and Renewable Energy

Securities and Investments

Course Code: 13016400
Course Abbreviation: SECINV
Credit: 1
Level: 4
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

In Securities and Investments, students will understand the laws and regulations to manage business operations and transactions in the securities industry.
Program of Study: Accounting and Financial Services

Sheet Metal Technology

Course Code: N1300430
Course Abbreviation: SHTMTL
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I, Geometry, Introduction to Manufacturing, Principles of Construction, or Construction Technology I
Recommended Corequisite: None

The purpose of the Sheet Metal Technology course is to prepare students in grades 11-12 for entry into the HVAC/Mechanical sheet metal installation industry. Students will learn the types of work performed, safety requirements, math skills needed, and career path options within the sheet metal trades. Additionally, students will learn and apply the knowledge and skills needed to select the proper material, tools, and joining methods for various types of HVAC and exhaust systems. Basic code requirements and Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) design principles will be introduced.
Program of Study: HVAC and Sheet Metal

Small Animal Management

Course Code: 13000400 **Course Abbreviation**: SMANIMGT
Credit: .5 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food and Natural Resources
Recommended Corequisite: None

In Small Animal Management, students acquire knowledge and skills related to the small animal management industry. Small Animal Management may address topics related to small animals such as dogs and cats, rabbits, pocket pets, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to small animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Animal Science

Small Engine Technology

Course Code: 13040100 **Course Abbreviation**: SETEC
Credits: 2 **Level**: 2
Prerequisite: Introduction to Small Engine Technology
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Small Engine Technology includes advanced knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide hands-on and practical application for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities.
Program of Study: Automotive and Collision Repair

Social and Community Services

Course Code: N1302543 **Course Abbreviation**: SOCCOM
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Community Services
Recommended Corequisite: None

Social and Community Services will provide an overview of the nonprofit, social, community service, and faith-based organization sector in the United States. The course has an emphasis on professional practices and development of the skills needed to implement service programs. The Social and Community Services course builds on knowledge from Principles of Community Services by providing an in-depth study of social services and how they relate to all other family and community services. Topics covered include the roles of community service providers in meeting human service needs, the sociological factors on clients receiving services, and the exploration of careers.
Program of Study: Family and Community Services

Social Media Marketing

Course Code: 13034650
Course Abbreviation: SMEDMKTG
Credit: .5
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance or any marketing course
Recommended Corequisite: None

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.
Program of Study: Marketing and Sales

Solid State Electronics

Course Code: 13036900
Course Abbreviation: SOSTELEC
Credit: 1
Level: 3
Prerequisite: AC/DC Electronics
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Solid State Electronics, students will demonstrate knowledge and applications of advanced circuits, electrical measurement, and electrical implementation used in the electronics and computer industries. Students will transfer advanced academic skills to apply engineering principles and technical skills to troubleshoot, repair, and modify electronic components, equipment, and power electronic systems in a project-based environment. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), Electrical Engineering, Electronics Technology (Regional), and Renewable Energy

Spatial Technology and Remote Sensing

Course Code: 13027555
Course Abbreviation: SPTECHRS
Credit: 1
Level: 3
Prerequisite: At least one credit in a course from the Information Technology career cluster
Corequisite: None
Recommended Prerequisites: Geographic Information Systems and Raster-Based Geographic Information Systems
Recommended Corequisite: None

In Spatial Technology and Remote Sensing, students receive instruction in industry standard geospatial extension software and geospatial tools, including global positioning systems (GPS), and training in project management and problem solving related to geographic information systems (GIS).
Programs of Study: Civil Engineering, and Information Technology Support and Services

Speech and Language Development

Course Code: 13021291 **Course Abbreviation**: SPCHLDEV
Credit: 1 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Principles of Health Science, Anatomy and Physiology, and Introduction to Speech Pathology and Audiology
Recommended Corequisite: None

The Speech and Language Development course provides advanced knowledge and skills related to speech and language acquisition and growth of developing children. Understanding healthy development and speech, language, and communication developmental milestones is a prerequisite for studying communication disorders. This course provides students with the knowledge and skills necessary to pursue further education, possibly culminating in a bachelor's degree and subsequent master's degree in communication sciences and disorders.
Programs of Study: Early Learning, and Exercise Science, Wellness, and Restoration

Speech Communication Disorders

Course Code: 13021292 **Course Abbreviation**: SPCOMDIS
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Health Science career cluster
Corequisite: None
Recommended Prerequisites: Principles of Health Science, Anatomy and Physiology, Introduction to Speech Pathology and Audiology, Speech and Language Development, and Human Growth and Development
Recommended Corequisite: None

The Speech Communication Disorders course is designed to provide for the development of advanced knowledge and skills related to an overview of communication disorders that occur in children and adults in the areas of speech sound production, stuttering, voice disorders, and the language areas of semantics, syntax, pragmatics, phonology, and metalinguistics. An overview of treatment for hearing loss and deafness will also be provided.
Programs of Study: Early Learning, and Exercise Science, Wellness, and Restoration

Sports and Entertainment Marketing

Course Code: 13034600 **Course Abbreviation**: SPORTSEM
Credit: .5 **Level**: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.
Programs of Study: Marketing and Sales, and Travel, Tourism, and Attractions

Sports and Entertainment Marketing II

Course Code: N1303422 **Course Abbreviation**: SPORTEM2
Credit: .5 **Level**: 3
Prerequisite: Sports and Entertainment Marketing
Corequisite: None
Recommended Prerequisite: Principles of Business, Marketing, and Finance
Recommended Corequisite: None

Sports and Entertainment Marketing II is an advanced course designed to build upon students' prior knowledge of sports and entertainment marketing. Students will develop a thorough understanding of advanced marketing concepts and theories as they relate to the sports and entertainment industries. Students will investigate the components of branding, sponsorships and endorsements, as well as promotion plans needed for sports and entertainment events. The course also supports career development skills and explores career options. Academic skills (mathematics, science, English, and history/social science) related to the content are a part of this course.
Program of Study: Marketing and Sales

Statics

Course Code: 12756025 **Course Abbreviation**: STATICS
Credit: 1 **Level**: 3
Prerequisites: At least one credit in a course from the Engineering career cluster and physics; Algebra II
Corequisite: Algebra II
Recommended Prerequisite: None
Recommended Corequisite: None

Statics is a gateway course into most engineering majors such as aerospace, mechanical, civil, and biomedical engineering. Students learn the elements of statics that include the forces in structures that are in equilibrium and usually not moving. This includes forces calculated in two dimensions, free-body diagrams, distributed loads, centroids, and friction as applied to cables, trusses, beams, machines, gears, and mechanisms. Students explore scenarios where objects remain stationary, emphasizing the importance of balance and stability in engineering design. This course not only equips students with theoretical knowledge but also empowers them with practical skills that are indispensable in real-world engineering scenarios
Programs of Study: Engineering Foundations

Statistics and Business Decision Making

Course Code: 13016900 **Course Abbreviation**: STATBDM
Credit: 1 **Level**: 4
Prerequisite: Algebra ll
Corequisite: None
Recommended Prerequisites: None
Recommended Corequisite: None

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.
Note: This course satisfies a high school mathematics graduation requirement.
Programs of Study: Business Management, Entrepreneurship, and Marketing and Sales

Student to Industry Connection

Course Code: N1270154
Course Abbreviation: ST2INDCN
Credit: 1
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Successful completion of two CTE courses
Recommended Corequisite: None

The Student to Industry Connection course provides students with the opportunity to develop professional relationships with experienced individuals within the student's chosen program of study and to demonstrate necessary skills for an online virtual workplace. Students will learn acceptable virtual etiquette and professionalism for a teleworking environment. The central focus of this course is to prepare students to be 21st century career ready through interaction with a seasoned workplace mentor. The course may include a work-based learning component. Instruction will support students with marketable skills attainment. The course is recommended for students 16 years of age or older.
This course is not in a program of study

Surveying and Geomatics

Course Code: 12756070
Course Abbreviation: SURVGEO
Credits: 2
Level: 2
Prerequisite: Algebra I
Corequisite: None
Recommended Prerequisites: Geometry and Introduction to Computer-Aided Design and Drafting
Recommended Corequisite: None

Students enrolled in Surveying and Geomatics are introduced to the principles and practices essential to the field of surveying. Throughout this course students investigate different tools, applications, and techniques used to capture and process geospatial data. They also use functional mathematics crucial to the profession. Additionally, the course emphasizes the importance of visual representations of data in multiple mediums, ethical considerations, and the legal or regulatory impact of surveying on the community and society
Program of Study: Civil Engineering

Texas Pre-Freshman Engineering Program II

Course Code: N1303753
Course Abbreviation: TXPRENG2
Credit: 1
Level: None
Prerequisite: Mathematics, Grade 8 or its equivalent
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

TexPREP II: Engineering Physics and Integrated Algebra coursework engages students in physics, mathematics, and engineering practices by exploring real-world challenges. TexPREP II integrates core concepts in physics, scientific and engineering practices, and conceptual knowledge to allow students to integrate their academic content knowledge with evidence to generate and internalize scientific principles. Throughout the course students share preconceptions, collect and interpret evidence, generate claims, and develop concepts themselves through evidence-based consensus building. Students experience unique applications and research related to engineering and physics from speakers and university presentations.
This course is not in a program of study

Texas Pre-Freshman Engineering Program III

Course Code: N1303754 **Course Abbreviation**: TXPRENG3
Credit: 1 **Level**: None
Prerequisite: TexPREP II or Algebra 2
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

TexPREP III: Probability, Statistics and Technical Writing coursework includes probability and statistics, STEM technical writing, topics in problem solving, and college and career awareness components. Technical writing is a critical pedagogical tool to help students make sense of knowledge and translate their understanding. TexPREP III develops a student's skills, content knowledge, and literacy in STEM fields. Students will also be exposed to ethical and professional responsibilities in engineering decision-making.
This course is not in a program of study

Texas Pre-Freshman Engineering Program IV

Course Code: N1303755 **Course Abbreviation**: TXPRENG4
Credit: 1 **Level**: None
Prerequisites: TexPREP II and TexPREP III or chemistry
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

TexPREP IV: Innovations in Engineering is a project-based course in which students develop the ability to understand, contextualize, and analyze engineering designs and systems. Students will apply skills such as problem identification, scientific investigation, engineering design, data collection, data analysis, formulation, and presentation of conclusions. Students learn to lead the design of products, services and technologies with a human-centered approach to help solve the needs of society. This course provides students with an understanding of the design process, research methodologies and innovation strategies in emerging STEM fields, such as materials science, nanotechnology, data science or cybersecurity.
This course is not in a program of study

Topographical Drafting

Course Code: N1300421 **Course Abbreviation**: TOPDR
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisites: Architectural Design, Algebra I, and Geometry
Recommended Corequisite: None

Topographical Drafting focuses on knowledge and skills essential to map drafting. Emphasis is given to plotting of surveyors' field notes, plotting elevations, contour drawings, plan and profiles, and laying out traverses.
Program of Study: Civil Engineering

Touch System Data Entry

Course Code: 13011300
Course Abbreviation: TSDATAE
Credit: .5
Level: None
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Touch System Data Entry, students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.
This course is not in a program of study

Tourism Marketing Concepts and Applications

Course Code: N1302270
Course Abbreviation: TOURMRKT
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism
Recommended Corequisite: None

Tourism Marketing Concepts and Applications will provide students with a thorough understanding of marketing concepts and theories that apply to the travel and tourism industry to include lodging, food and beverage operations, recreation, amusements, attractions, convention and visitors' bureaus and tourism companies. While general concepts of marketing for travel and tourism are similar to the marketing of other products and services, the travel and tourism industry has unique characteristics that create a variety of challenges and opportunities specific to and important for tourism marketing professionals. Students will learn broad tourism marketing concepts such as understanding a product/service, pricing out a product/service, promoting a product/service with a focus on direct sales and the placement or distribution channels for a product. They will also be introduced to the concepts of markets, market segmentation, and customer needs related to the tourism industry.
Programs of Study: Culinary Arts, Lodging and Resort Management, and Travel, Tourism, and Attractions

Travel and Tourism Management

Course Code: 13022500
Course Abbreviation: TRTORMGT
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Hospitality and Tourism
Recommended Corequisite: None

Travel and Tourism Management incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course.
Programs of Study: Lodging and Resort Management, and Travel, Tourism, and Attractions

Turf Grass Management

Course Code: 13001950
Course Abbreviation: TGMGT
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Plant Science

Veterinary Science

Course Code: 13000600
Course Abbreviation: VETSCI
Credit: 1
Level: 4
Prerequisite: Equine Science, Small Animal Management, or Livestock and Poultry Production
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Veterinary Science covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Animal Science

Veterinary Science + Agricultural Laboratory and Field Experience

Course Code: 13000610
Course Abbreviation: VETSCILAB
Credits: 2
Level: 4
Prerequisite: Equine Science, Small Animal Management, or Livestock and Poultry Production
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Veterinary Science covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.
Program of Study: Animal Science

Video Game Design

Course Code: 13009970
Course Abbreviation: VIDGD
Credit: 1
Level: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Principles of Arts, Audio/Video Technology, and Communications
Recommended Corequisite: None

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.
Program of Study: Graphic Design and Interactive Media

Video Game Programming

Course Code: N1300994
Course Abbreviation: VIDEOPR
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Video Game Design
Recommended Corequisite: None

Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.
Program of Study: Graphic Design and Interactive Media

Virtual Business

Course Code: 13012000
Course Abbreviation: VIRTBUS
Credit: .5
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Touch System Data Entry
Recommended Corequisite: None

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.
Programs of Study: Business Management, and Marketing and Sales

Viticulture

Course Code: 13002080 **Course Abbreviation**: VITICUL
Credit: 1 **Level**: 3
Prerequisite: At least one credit in a course from the Agriculture, Food, and Natural Resources career cluster
Corequisite: None
Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources
Recommended Corequisite: None

Viticulture is a course designed to provide students with the academic and technical knowledge and skills that are required to pursue a career related to vineyard operations, grape cultivation, and related industries that contribute to the Texas economy. Students in Viticulture develop an understanding of grape production techniques and practices while emphasizing environmental science related to production decisions. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.
Program of Study: Plant Science

Web Communications

Course Code: 03580810 **Course Abbreviation**: TAWEBCM
Credit: 0.5 **Level**: 1
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Web Communications, students will acquire knowledge of web communications and technological operations and concepts. This is an exploratory course in web communications. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Programs of Study: Digital Communications, Graphic Design and Interactive Media, and Web Development

Web Design

Course Code: 03580820 **Course Abbreviation**: TAWEBDN
Credit: 1 **Level**: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

In Web Design, students will acquire knowledge of web design and technological operations and concepts that support creativity, innovation, collaboration, information fluency, critical thinking and decision making. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Program of Study: Web Development

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Web Game Development

Course Code: 03580830
Course Abbreviation: TAWEBGD
Credit: 1
Level: 3
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Web Design
Recommended Corequisite: None

Web Game Development will allow students to demonstrate creative thinking, develop innovative strategies, and use digital and communication tools necessary to develop fully functional online games. Web Game Development has career applications for many aspects of the game industry, including programming, art principles, graphics, web design, storyboarding and scripting, and business and marketing. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.
Programs of Study: Graphic Design and Interactive Media, and Web Development

Welding l

Course Code: 13032300
Course Abbreviation: WELD1
Credits: 2
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: Algebra I, Principles of Manufacturing, Introduction to Precision Metal Manufacturing, or Introduction to Welding
Recommended Corequisite: None

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.
Programs of Study: Advanced Manufacturing and Industrial Technology (Regional), and Welding

Welding ll

Course Code: 13032400
Course Abbreviation: WELD2
Credits: 2
Level: 3
Prerequisite: Welding l
Corequisite: None
Recommended Prerequisite: Algebra l or Geometry
Recommended Corequisite: Welding II Lab

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
Program of Study: Welding

Welding II + Welding II Lab

Course Code: 13032410
Course Abbreviation: WELDLAB2
Credits: 3
Level: 3
Prerequisite: Welding I
Corequisite: None
Recommended Prerequisite: Algebra I or Geometry
Recommended Corequisite: None

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
Program of Study: Welding

Wildlife, Fisheries, and Ecology Management

Course Code: 13001500
Course Abbreviation: WFECGT
Credit: 1
Level: 2
Prerequisite: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.
Program of Study: Environmental and Natural Resources

Wildlife, Fisheries, and Ecology Management + Agricultural Laboratory and Field Experience

Course Code: 13001510
Course Abbreviation: WFECGTLAB
Credits: 2
Level: 2
Prerequisites: None
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.
Program of Study: Environmental and Natural Resources

World Health and Emerging Technologies

Course Code: 13020900 **Course Abbreviation**: WORLDHT
Credit: 1 **Level**: 4
Prerequisites: One credit in biology and at least one credit in a Level 2 or higher course from the Health Science career cluster
Corequisite: None
Recommended Prerequisite: None
Recommended Corequisite: None

The World Health and Emerging Technologies course is designed to examine major world health problems and emerging technologies as solutions to these medical concerns. It is designed to improve students' understanding of cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues.

Program of Study: Health Informatics

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