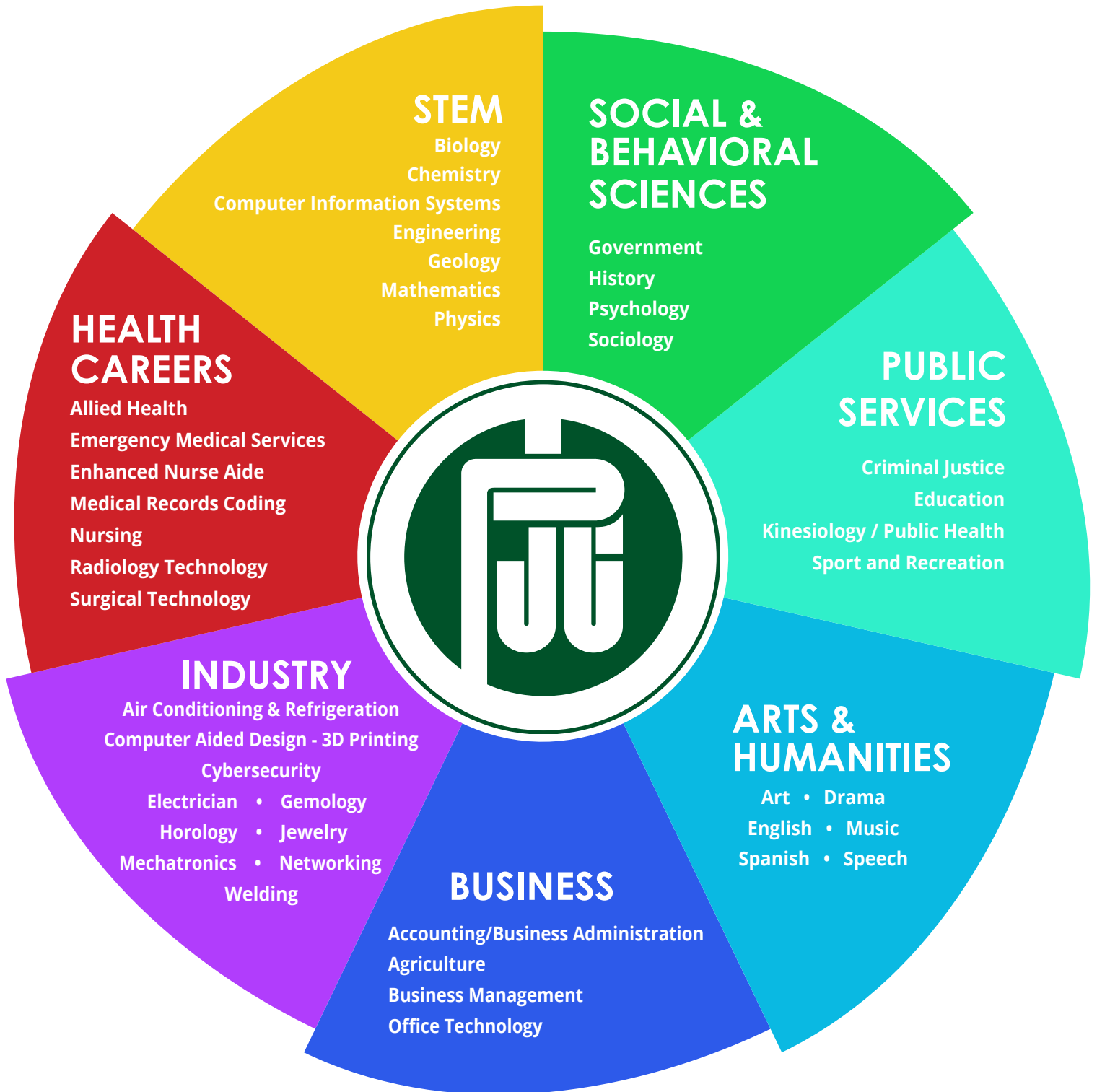


Paris Junior College

PATHWAYS





Art

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ARTS 1311 - Design I
ARTS 1316 - Drawing I
HIST 1301 - United States History I
EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I

Second Semester - 15 SCH

ARTS 1312 - Design II
ARTS 1317 - Drawing II
MATH 1332 - Contemporary Math
HIST 1302 - United States History II
ENGL 1302 - Composition II

Third Semester - 15 SCH

ARTS 1301 - Art Appreciation
GOVT 2305 - Federal Government
SOCI 1301 - Introductory Sociology
COMM 1307 - Introduction to Mass Communications
PHYS 1303 - Stars and Galaxies

Fourth Semester - 15 SCH

ENGL 2331 - World Literature
GOVT 2306 - Texas Government
SPCH 1321 - Business & Professional Communication
ARTS (Choose One): 2346, 2348 or 2356
PHYS 1304 - Solar System

Marketable Skills

- Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions and approaches to a problem.
- Creative Thinking - Developing, designing or creating new applications, ideas, relationships, systems or products including artistic contributions.
- Active Learning - Understanding the implications of new information for both current and future problem solving and decision making.
- Visualization - The ability to imagine how something will look after it has been created, moved around or when its parts have been rearranged.
- Establishing and Maintaining Interpersonal Relationships - Developing constructive and cooperative working relationships with others and maintaining them over time.

Program Outcomes

- Demonstrate the ability to recognize in a work of art chosen randomly from any culture or historical period these three examples of design elements: color harmony, use of perspective, and understanding of dimension.
- Demonstrate the ability to distinguish which cultural, individual, or group style is reflected in a work of art chosen randomly from samples of two-dimensional art and architecture.
- Demonstrate the ability to recognize in a work of art chosen randomly from any cultural or historical period these three design principles: evidence and type of balance, use of scale and proportion, and understand the difference between the two; describe the category of art as abstract, realistic, or non-objective.

High School Endorsements

Arts & Humanities

Expected Salary

Texas wage data: workers on average earn \$49,340; 10% of workers earn \$19,080 or less; 10% of workers earn \$80,070 or more. **US wage data:** workers on average earn \$50,550; 10% of workers earn \$20,070 or less; 10% of workers earn \$112,970 or more.

Transfer Path/Requirements

For Texas A&M Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the art major, a minimum of 22 additional SCH must be completed within the discipline of art, with an additional 18 advanced SCH in the disciplines of Art and Photography.
- Students who are considering teaching in high schools or middle schools must take MATH 1314 and follow guidelines set for teacher certification.

Career Opportunities

AA Minimum: Professional Artist; Web Design; Photographer; Book Illustrator; Art Appraiser; Makeup Artist; Scenic Charge Artist.

BA Minimum: Marketing Director; Curator; Cultural Consultant; Art Educator; Animator; Graphic Designer; Game Designer; Interior Designer; Art Writer, Editor or Critic. **MFA Minimum:** Art Consultant; Art Therapist.



Drama

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

DRAM 1351 - Acting I or DRAM 1330 - Stagecraft I
EDUC 1300 - Learning Framework
SPCH 1321 - Business and Professional Communication
ENGL 1301 - Composition I
HIST 1301 - United States History I

Second Semester - 15 SCH

DRAM 1352 - Acting II or DRAM 2336 - Voice for the Actor
DRAM 1310 - Introduction to Theater
MATH 1332 - Contemporary Mathematics
HIST 1302 - United States History II
ENGL 1302 - Composition II

Third Semester - 15 SCH

DRAM 1330 - Stagecraft I or DRAM 1351 - Acting I
GOVT 2305 - Federal Government
SOCI 1301 - Introduction to Sociology
SPAN 2311 - Intermediate Spanish I
PHYS 1303 - Stars and Galaxies

Fourth Semester - 15 SCH

DRAM 1322 - Stage Movement or DRAM 1342 - Costume Technology
ENGL 2331 - World Literature
GOVT 2306 - Texas Government
SPAN 2312 - Intermediate Spanish II
PHYS 1304 - Solar System

Marketable Skills

- Basic construction techniques
- Machine and hand sewing
- Painting techniques
- Rigging
- Computer software skills
- Cashiering skills
- Time management
- Written and oral communication
- Relationship building
- Customer service
- Project management
- Design
- Public relations
- Marketing
- Creative thinking
- Critical thinking
- Ability to meet deadlines
- Reading comprehension
- Social perceptiveness
- Social media management

Program Outcomes

- Show proficiency with the basic usage of hardware and equipment associated to various technical theatre areas in a safe manner while being able to correctly identify and utilize technical theatre terminology.
- Demonstrate proficiency in character development through physical and vocal techniques and character analysis.
- Identify the major stages of development in various dramatic forms in Western and Eastern cultures.

High School Endorsements

Arts & Humanities

Expected Salary

Texas wage data: workers on average earn \$15.57 per hour; 10% of workers earn \$9.64 or less per hour; 10% of workers earn \$25.99 or more per hour. **US wage data:** workers on average earn \$20.43 per hour; 10% of workers earn \$9.52 or less per hour; 10% of workers earn \$60.41 or more per hour.

Transfer Path/Requirements

For Texas A&M Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the theater major, a minimum of 30 additional SCH must be completed within the discipline of theater.
- Students who are considering teaching in high schools or middle schools must take MATH 1314 and follow guidelines set for teacher certification.

Career Opportunities

AA Minimum: Actor; Box Office Manager; Sales Representative. **BA/BFA Minimum:** Director; Voice-Over Actor; Production Coordinator; Events Coordinator; Scenic Charge Artist; Audio Engineer; Entertainment Agent; Stunt Choreographer; Booking Manager; Marketing Director, Market Research Assistant. **MA/MFA Minimum:** Secondary Education Instructor; Post-Secondary Instructor; Dramaturg; Film / Theatre Critic; Publications Editor.



English

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
HIST 1301 - United States History I
MATH 1332 - Contemporary Mathematics
EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I

Second Semester - 15 SCH

DRAM 1310 - Introduction to Theater
HIST 1302 - United States History II
PSYC 2301 - General Psychology
SPCH 1315 - Public Speaking
ENGL 1302 - Composition II

Third Semester - 15 SCH

ENGL 2322 - British Literature I
GOVT 2305 - Federal Government
SPAN 2311 - Intermediate Spanish I
ENGL 2331 - World Literature
PHYS 1303 - Stars and Galaxies

Fourth Semester - 15 SCH

ENGL 2323 - British Literature II
GOVT 2306 - Texas Government
SPAN 2312 - Intermediate Spanish II
HIST 2321 - World Civilizations I
PHYS 1304 - Solar System

Marketable Skills

- Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Critical Thinking- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- Instructing - Teaching others how to do something.
- Learning Strategies - Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.
- Reading Comprehension - Understanding written sentences and paragraphs in work-related documents.
- Speaking - Talking to others to convey information effectively.
- Writing - Communicating effectively in writing as appropriate for the needs of the audience.

Program Outcomes

- Demonstrate the ability to identify, arrange, and evaluate the effectiveness of a thesis statement.
- Demonstrate the ability to identify Standard Written English (SWE) and apply correct forms of English most widely accepted as clear and proper.
- Demonstrate the ability to identify the specific parts of an essay, distinguish appropriate modes of communicating an idea, and use transitional words and phrases effectively.

High School Endorsements

Arts & Humanities

Expected Salary

Texas wage data: workers on average earn \$54,430; 10% of workers earn \$28,990 or less; 10% of workers earn \$91,340 or more. **US wage data:** workers on average earn \$63,200; 10% of workers earn \$33,660 or less; 10% of workers earn \$122,450 or more.

Transfer Path/Requirements

- Student should refer to the catalog of the institution to which he/she plans to transfer for degree requirements.
Texas A&M Commerce:
 - A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
 - *No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
 - For the English major, ten advanced courses are required by TAMU-Commerce: ENG 333 (Technical Writing) plus nine courses in literature, linguistics, and writing.
 - All students who are considering teaching in Texas high schools or middle schools must follow guidelines set for teacher certification, such as taking MATH 1314.

Career Opportunities

AA Minimum: Teacher's Aide; Bookkeeper; Editor/Publisher/Author; Media Assistant; Social Media Manager; Retail Manager; Human Resources Assistant; Desktop Publisher; Legal Assistant; Marketing Specialist; Public Relations Director; Technical Writer; Journalist; News Reporter; Copywriter; Advertising Manager. **BA Minimum:** English Secondary School Teacher. **MA Minimum:** English Language and Literature Teacher (post-secondary).



Music

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

MATH 1332 - Contemporary Mathematics
EDUC/PSYC 1300 - Learning Framework
HIST 1301 - United States History I
MUEN 1141 - Chorale
MUAP 12** - Individual Instruction
MUSI 1311 - Music Theory I

Second Semester - 15 SCH

SOCI 1301 - Introduction to Sociology
MUSI 1306 - Music Appreciation
ENGL 1301 - Composition I
HIST 1302 - United States History II
MUEN 1141 - Chorale
MUAP 12** - Individual Instruction

Third Semester - 15 SCH

GOVT 2305 - Federal Government
PHYS 1303 - Stars and Galaxies
ENGL 1302 - Composition II
SPCH 1315 - Public Speaking
MUEN 1141 - Chorale
MUAP 12** - Individual Instruction

Fourth Semester - 15 SCH

GOVT 2306 - Texas Government
PHYS 1304 - Solar System
COMM 1307 - Introduction to Mass Communications
ENGL 2331 - World Literature
MUEN 1141 - Chorale
MUAP 12** - Individual Instruction

Marketable Skills

- Musical fluency and literacy
- Skilled public performer
- Ability to work in a team/ensemble
- Extensive creative capacity
- Skilled at macro and microanalysis
- Ability to handle deadlines

High School Endorsements

Arts & Humanities

Expected Salary

Texas wage data: workers on average earn \$25.37 per hour; 10% of workers earn \$8.62 or less per hour; 10% of workers earn \$66.36 or more per hour. **US wage data:** workers on average earn \$30.39 per hour; 10% of workers earn \$11.11 or less per hour; 10% of workers earn \$80.70 or more per hour.

Career Opportunities

AA Minimum: Performer; Private Lessons Teacher/Coach; Community Music Group Leader; Church Musician; Primary, Recording Technician. **BA Minimum:** Music Teacher - Secondary. **MA Minimum:** Higher Education.

Program Outcomes

- Identify and classify five familiar aural examples of music each differing by musical texture of composition (monophonic, homophonic, and polyphonic).
- Identify and classify five familiar aural examples of music each differing by genre (sonata, symphony, fugue, etc.) of composition.
- Identify and classify five familiar aural examples of music each differing by style period of composition (Early music, Baroque, Classical, etc.).

Transfer Path/Requirements

Texas A&M Commerce:

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the music major, a minimum of 41 SCH must be completed within the discipline of music.
- Students who are considering teaching in high schools or middle schools must take MATH 1314 and follow guidelines set for teacher certification.



Spanish

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1332 - Contemporary Mathematics
SPAN 1411 - Beginning Spanish I

Second Semester - 16 SCH

COSC 1301 - Introduction to Computing
ENGL 1302 - Composition II
HIST 1302 - United States History II
SOC 1301 - Introduction to Sociology
SPAN 1412 - Beginning Spanish II

Third Semester - 15 SCH

ENGL 2331 - World Literature
GOVT 2305 - Federal Government
PHYS 1303 - Stars and Galaxies
SPAN 2311 - Intermediate Spanish I
SPCH 1315 - Public Speaking

Fourth Semester - 13 SCH

GOVT 2306 - Texas Government
MUSI 1306 - Music Appreciation
PHED 1134 - Introduction to Wellness
PHYS 1304 - Solar System
SPAN 2312 - Intermediate Spanish II

Marketable Skills

- Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Critical Thinking- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems.
- Reading Comprehension - Understanding written sentences and paragraphs in work related documents.
- Speaking - Talking to others to convey information effectively.
- Writing - Communicating effectively in writing as appropriate for the needs of the audience.

Program Outcomes

- Demonstrate proficient listening skills resulting in understanding of most routine questions, statements, commands, and the gist of everyday conversations on non-technical subjects.
- Demonstrate proficiency in reading the Spanish language resulting in an understanding of most routine expressions on familiar subjects with the aid of references.
- Demonstrate the ability to respond orally with comprehension to most routine questions, statements, and commands, to use vocabulary sufficient to express oneself simply, and to discuss situations relevant to everyday life.
- Demonstrate the ability to produce essential messages in writing and the ability to use basic sentence construction and simple vocabulary.
- Show evidence of knowledge and awareness of the history and culture of another people within a range of situations.
- Demonstrate knowledge about how a language operates and skills that result in the application of the language-learning process to the study of other languages.

High School Endorsements

Arts & Humanities

Expected Salary

Texas wage data: workers on average earn \$50,770; 10% of workers earn \$32,420 or less; 10% of workers earn \$86,260 or more. **US wage data:** workers on average earn \$52,330; 10% of workers earn \$29,740 or less; 10% of workers earn \$96,480 or more.

Career Opportunities

AA Minimum: Teacher's Aide, Educational Interpreter, Bilingual Nurse, Medical Interpreter, Health Care Assistant, Health Care Administrative Assistant, Human Resources Assistant, Customer Service Representative, Retail Manager, Bank Teller, Administrative Assistant, Desktop Publisher, Paraprofessional Interpreter, Cultural Events Coordinator, Travel Agent, Court Interpreter, Legal Assistant, Officer Social Media Assistant, Flight Attendant. **BA Minimum:** Technical Writer, Bilingual/Dual/Foreign Language Educator, Children's Author, Health Care Administrator, International Business, International Relations Consultant, Foreign Exchange Trader, Human Resources Director, Recruiter, Sales & Service Consultant, Journalist, Reporter, Social Media Manager, Hospitality Manager, National Security Agent. **MA Minimum:** College Instructor/Professor.

Transfer Path/Requirements

- Students should refer to the catalog of the institution to which he/she plans to transfer for degree requirements. A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- Associate of Arts in Spanish to Bachelor of Arts for a Non-Teaching Degree Spanish major (120 SCH) at TAMUC: the core curriculum (42 semester hours), 12 lower level courses (transferred from PJC), five intermediate level 300 Spanish courses (15 SCH) and three advanced level 400 Spanish courses (9 SCH). Electives are required to meet minimum program hours with a minimum 18 SCH required in the minor.
- To be certified to teach Spanish at the secondary level (grades 7-12), a student must have 36 semester hours. Refer to the Department of Curriculum and Instruction for teaching courses must follow guidelines set for teacher certification.
- Associate of Arts in Spanish to Bachelor of Applied Arts and Sciences in Organizational Leadership must take an additional 60 hours. For questions contact ORGLadvising@tamuc.edu.



Speech

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COMM 2311 - Media Writing
SPCH 1315 - Public Speaking
EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I
MATH 1332 - Contemporary Mathematics

Second Semester - 15 SCH

DRAM 1310 - Introduction to Theater
HIST 1301 - United States History I
ENGL 1302 - Composition II
COMM 2332 - Radio/Television News or
DRAM 2336 - Voice for Theater
SOC 1301 - Introduction to Sociology

Third Semester - 15 SCH

GOVT 2305 - Federal Government
PHYS 1303 - Stars and Galaxies
HIST 1302 - United States History II
SPAN 2311 - Intermediate Spanish I
SPCH 1321 - Business & Professional Speaking

Fourth Semester - 15 SCH

GOVT 2306 - Texas Government
PHYS 1304 - Solar System
COMM 1307 - Introduction to Mass Communications
SPAN 2312 - Intermediate Spanish II
ENGL 2331 - World Literature

Marketable Skills

- Innovative thinking, inquiry, and audience analysis for informative and persuasive communication.
- Development of oral interpretation and dynamic expression of ideas through professional presentations and visual communication.
- Effective engagement in interpersonal interactions, interviews, and performance appraisals.
- Ability to consider different points of view through negotiation, work effectively with others to support a shared goal.
- Intercultural and cross-cultural communication competence and the ability to engage effectively with regional, national, and global audiences.
- Dealing with ambiguity, handling audience questions and using technology as appropriate.

Program Outcomes

- Demonstrate verbal, physical, and vocal elements consistent with fundamental speaking techniques and critically analyze other speaker's abilities.
- Compose a structured verbal presentation utilizing an accepted outline format, verbal resources, and visual aids to add credibility to the speaker's message.
- Utilize and define communication terms and principles as they apply to one-on-one, public, and/or business setting.

High School Endorsements

Arts & Humanities

Expected Salary

Texas wage data: workers on average earn \$56,980; 10% of workers earn \$33,310 or less; 10% of workers earn \$94,440 or more.
US wage data: workers on average earn \$62,810; 10% of workers earn \$35,350 or less; 10% of workers earn \$118,210 or more.

Transfer Path/Requirements

For Texas A&M Commerce:

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 sch from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the speech major, a minimum of 15 additional SCH must be completed within the discipline of speech.
- Students who are considering teaching in high schools or middle schools must take MATH 1314 and follow guidelines set for teacher certification.

Career Opportunities

AA Minimum: Advertising and Publicity; Commentator; Consumer Advocate; Congressional Aide; Editorial Assistant; Retail Sales. **BA Minimum:** Communication Manager; Speech Writer; Campaign Manager; New Media, Corporate Communication, and Public Relations; Copywriter; Analyst; Entertainment Agent; Critic. **MA Minimum:** Human Resources Specialist; Columnist; Publisher; Instructor; Lobbyist.



Accounting/Business Administration

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

BCIS 1305 - Business Computer Applications
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1324 - Mathematics for Business & Social Sciences
EDUC/PSYC 1300 - Learning Framework

Second Semester - 15 SCH

MUSI 1306 - Music Appreciation
HIST 1302 - United States History II
MATH 1325 - Calculus for Business & Social Sciences
ENGL 1302 - Composition II
SPCH 1321 - Business & Professional Communication

Third Semester - 15 SCH

ACCT 2301 - Principles of Financial Accounting
ECON 2301 - Principles of Macroeconomics
BUSI 2301 - Business Law
BIOL 1322 - Nutrition & Diet Therapy
GOVT 2305 - Federal Government

Fourth Semester - 15 SCH

ECON 2302 - Principles of Microeconomics
GOVT 2306 - Texas Government
PHYS 1303 - Stars and Galaxies
ACCT 2302 - Principles of Managerial Accounting
COMM 1307 - Introduction to Mass Communications

Marketable Skills

- Critical Thinking - Ability to process information and apply theoretical insights in an applied industry context.
- Personal and Social Responsibility - Understands the importance of ethical decision-making in the business world and within the accounting context; monitors performance of self, other individuals, or organizations to make improvements or take corrective action.
- Judgment and Decision Making - Considering the relative costs and benefits of potential actions to choose the most appropriate one.
- Complex Problem solving - Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Program Outcomes

- Evaluate economic data.
- Apply economic reasoning to analysis of current events.
- Demonstrate an understanding of economic terminology and concepts.
- Analyze and complete journal entries utilizing generally accepted accounting principles.
- Categorize accounts to prepare income statement, statement of owner's equity, statement of cash flows, and balance sheet.
- Evaluate company production, profitability and cost using managerial accounting tools.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$40,630; 10% of workers earn \$24,190 or less; 10% of workers earn \$60,970 or more.

US wage data: workers on average earn \$41,230; 10% of workers earn \$25,870 or less; 10% of workers earn \$62,410 or more.

Transfer Path/Requirements

Students pursuing a CPA should consider a BBA and MS in Accounting. Other students may wish to pursue a BBA degree in any of the following: Finance, Economics, Management, Management Information Systems, Marketing, Business Analytics, or General Business.

Career Opportunities

AS Minimum: Entrepreneur / Business owner; Office Assistant; Customer Service Representative. **BS Minimum:** Accountant; Marketing Director; Analyst; Business Operations Manager; Financial Advisor; Banker; Sales Manager; Consultant. **MS Minimum:** Economist.



Agriculture

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

AGRI 1131 - The Agricultural Industry
 AGRI 1329 - Principles of Food Science
 ENGL 1301 - Composition I
 HIST 1301 - United States History I
 COSC 1301 - Introduction to Computing
 MUSI 1306 - Music Appreciation

Second Semester - 16 SCH

AGRI 1419 - Introductory Animal Science
 ENGL 1302 - Composition II
 HIST 1302 - United States History II
 MATH 1314 - College Algebra or
 MATH 1324 - Math for Business & Social Sciences*
 SPCH 1321 - Business & Professional Communication

Third Semester - 13 SCH

AGRI 2317 - Introduction to Agricultural Economics
 COMM 1307 - Introduction to Mass Communications
 CHEM 1411 - General Chemistry I or
 CHEM 1405 - Introduction to Chemistry*
 GOVT 2305 - Federal Government

Fourth Semester - 15 SCH

AGRI 1407 - Agronomy
 BIOL 1406 - Biology for Science Majors I
 CHEM 1412 - General Chemistry II
 GOVT 2306 - Texas Government

Marketable Skills

- Critical Thinking/Problem Solving to Better Consider Economic Factors
- Written/Oral Communication
- Empirical/Quantitative Reasoning to Make Management Decisions
- Teamwork/Collaboration - Use Logic & Reasoning to Identify Strengths
- Organization/Time Management to Improve Planning
- Research/Planning - Analyze Information & Evaluate Results to Choose Best Solutions

Program Outcomes

- Differentiate between traditional and alternative agricultural production.
- Demonstrate knowledge of basic terminology and understanding of major agricultural concepts.
- Understand general market characteristics, plant propagation techniques, soil survey maps and types/characteristics, and scientific animal production, management, & marketing.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$78,690; 10% of workers earn \$44,340 or less; 10% of workers earn \$158,340 or more.

US wage data: workers on average earn \$84,410; 10% of workers earn \$51,160 or less; 10% of workers earn \$166,620 or more.

Transfer Path/Requirements

For Texas A&M Commerce:

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the agricultural science major, the student must go on to take another 60 hours, mostly consisting of agricultural science, plant science, and additional life and physical sciences. For the agribusiness major, the student must take an additional 60 hours, mostly consisting of agricultural courses and business courses.

*Transfer Path Options

- BIOL 1406 & MATH 1314 are recommended for Animal Transfer Path Options Science, Horticulture/Plant Science, and Pre-Veterinary.
- MATH 1324 & Science Core for Agri-Business and AgEducation
- CHEM 1405 for Agri-Business, Agri-Science and AgEducation

Career Opportunities

AS Minimum: Agricultural Products Insurance Specialist; Engineer; Park Ranger; Landscaper; Ranch Manager. **BS Minimum:** Arborist; Agricultural Inspector; Horticulturalist; Botanist; Conservationist; Forest Ranger; Soil and Plant Scientist; Agricultural Food Scientist; Agronomist; Wildlife Manager, County Extension Agent, Agriculture Teacher. **MS Minimum:** Agriculture Instructor; Agricultural Engineer.



Business Computer Applications

Certificate (42 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ACNT 1303 - Introduction to Accounting I
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1309 - Integrated Software Applications I
ITSW 1304 - Introduction to Spreadsheets
POFT 1321 - Business Math

Second Semester - 15 SCH

ACNT 1311 - Introduction to Computerized Accounting
IMED 1316 - Web Design I
ITSC 1321 - Intermediate PC Operating Systems
ITSW 1307 - Introduction to Database
ITSW 2334 - Advanced Spreadsheets

Third Semester - 12 SCH

ITSC 1364 – Practicum - Computer and Information Sciences, General
ITSC 2321 - Integrated Software Applications II
ITSW 1310 - Introduction to Presentation Graphics Software
POFT 2312 - Business Correspondence & Communication

Marketable Skills

- Locate and correct data entry errors, or report them to supervisors.
- Compile, sort, and verify the accuracy of data before it is entered.
- Compare data with source documents, or re-enter data in verification format to detect errors.
- Store completed documents in appropriate locations.
- Select materials needed to complete work assignments.

Program Outcomes

- Utilize industry standard application software to produce personal, business, and academic reports and presentations.
- Demonstrate knowledge of computer industry terminology and jargon.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$33,250; 10% of workers earn \$21,840 or less; 10% of workers earn \$44,760 or more.

Additional Educational Opportunities

Students may continue their education through a BAAS degree.

Career Opportunities

Data Processing Analysts; Office Manager; Desktop Support Technician; Office Assistant; Database Administrator; Administrative Assistant.



Business Management

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ACNT 1303 - Introduction to Accounting I
BCIS 1305 - Business Computer Applications
BUSG 1301 - Introduction to Business
MRKG 1311 - Principles of Marketing
ENGL 1301 - Composition I

Second Semester - 15 SCH

ACNT 1311 - Introduction to Computerized Accounting
BMGT 1327 - Principles of Management
MUSI 1306 - Music Appreciation
HRPO 2301 - Human Resources Management
MATH 1332 - Contemporary Mathematics

Third Semester - 15 SCH

ACCT 2301 - Principles of Financial Accounting
POFT 2312 - Business Correspondence & Communication
BUSI 2301 - Business Law
ECON 2301 - Principles of Macroeconomics
ITSW 1304 - Introduction to Spreadsheets

Fourth Semester - 15 SCH

ACCT 2302 - Principles of Managerial Accounting
ITSW 2334 - Advanced Spreadsheets
BUSG 2309 - Small Business Management/
Entrepreneurship
ECON 2302 - Principles of Microeconomics
BMGT 1368 - Practicum - Business Administration
& Management, General

Marketable Skills

- Review financial statements, sales or activity reports to measure productivity or identify program improvement.
- Direct and coordinate activities of production, pricing, sales, or distribution of products.
- Direct administrative activities directly related to making products or providing services.
- Prepare staff work schedules and assign specific duties
- Monitor suppliers to ensure efficient and effective delivery of goods or services within budgetary limits.

Program Outcomes

- Students will be able to apply business concepts, practices, and/or techniques to effectively manage an organization.
- Students will be able to evaluate company production, profitability and cost using managerial accounting tools.
- Demonstrate proficiency using industry application software.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$97,670; 10% of workers earn \$39,260 or less; 10% of workers earn \$208,000 or more.

Additional Educational Opportunities

Students may continue their education through a BAAS degree.

Career Opportunities

Business Operations Manager; Account Executive; Entrepreneur; Office Manager; Sales Representative; Human Resources Specialist; Bookkeeping, Accounting and Audit Clerk; Management Analyst; Marketing Manager.



Business Management

Certificate (42 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

BCIS 1305 - Business Computer Applications
BUSG 1301 - Introduction to Business
ACNT 1303 - Introduction to Accounting I
MRKG 1311 - Principles of Marketing
ITSW 1304 - Introduction to Spreadsheets

Second Semester - 15 SCH

ACNT 1311 - Introduction to Computerized Accounting
BMGT 1327 - Principles of Management
BUSI 2301 - Business Law
ECON 2302 - Principles of Microeconomics
ITSW 2334 - Advanced Spreadsheets

Third Semester - 12 SCH

BUSG 2309 - Small Business Management/
Entrepreneurship
ECON 2301 - Principles of Macroeconomics
HRPO 2301 - Human Resources Management
POFT 2312 - Business Correspondence & Communication

Marketable Skills

- Prepare detailed reports on audit findings.
- Report to management about asset utilization and audit results, and recommend changes in operations and financial activities.
- Collect and analyze data to detect deficient controls.
- Inspect account books and accounting systems for efficiency, effectiveness, and use of accepted accounting procedures to record transactions.
- Supervise auditing of establishments, and determine scope of investigation required.

Program Outcomes

- Students will be able to apply business concepts, practices, and/or techniques to effectively manage an organization.
- Students will be able to evaluate company production, profitability and cost using managerial accounting tools.
- Demonstrate proficiency using industry application software.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$73,420; 10% of workers earn \$46,690 or less; 10% of workers earn \$123,770 or more.

Additional Educational Opportunities

Students may continue their education through an AAS in Business Management and BAAS degree.

Career Opportunities

Business Operations Manager; Management Analyst; Entrepreneur; Human Resources Specialist; Sales Representative; Account Executive; Bookkeeping, Accounting and Audit Clerk; Office Manager; Marketing Manager.



Entrepreneurship

Certificate (18 SCH*)

*Semester Credit Hour

4/2022

First Semester - 18 SCH

ACNT 1303 - Introduction to Accounting I
BUSI 2301 - Business Law
BUSG 2309 - Small Business Management/
Entrepreneurship
MRKG 1311 - Principles of Marketing
HRPO 2301 - Human Resources Management
BUSG 1301 - Introduction to Business

Marketable Skills

- Analyzing information and evaluating results to choose the best solution and solve problems.
- Communicating with Supervisors, Peers, or Subordinates by telephone, in written form, e-mail, or in person.
- Gathering Information from all relevant sources.
- Coordinating the Work and Activities of Others
- Guiding, Directing, and Motivating Subordinates

Program Outcomes

- Students will be able to apply business concepts, practices, and/or techniques to effectively manage an organization.
- Students will be able to evaluate company production, profitability and cost using managerial accounting tools.
- Demonstrate proficiency using industry application software.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$97,670; 10% of workers earn \$39,260 or less; 10% of workers earn \$208,000 or more.

Additional Educational Opportunities

Students may continue their education through an AAS in Business Management and BAAS degree.

Career Opportunities

Entrepreneur



Office Accounting

Certificate (42 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ACNT 1303 - Introduction to Accounting I
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1309 - Integrated Software Applications I
POFT 1321 - Business Math
POFT 1329 - Beginning Keyboarding

Second Semester - 12 SCH

BUSG 1301 - Introduction to Business
ITSC 2321 - Integrated Software Applications II
POFT 1319 - Records & Information Management
POFT 2301 - Intermediate Keyboarding

Third Semester - 15 SCH

ACCT 2301 - Principles of Financial Accounting
BUSG 1304 - Introduction to Financial Advising
BUSI 2301 - Business Law
ITSW 1304 - Introduction to Spreadsheets
POFT 2312 - Business Correspondence & Communication

Marketable Skills

- Operate computers programmed with accounting software to record, store, and analyze information.
- Check figures, postings, and documents for correct entry, mathematical accuracy, and proper codes.
- Comply with federal, state, and company policies, procedures, and regulations.
- Operate 10-key calculators, typewriters, and copy machines to perform calculations and produce documents.
- Receive, record, and bank cash, checks, and vouchers

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$40,630; 10% of workers earn \$24,190 or less; 10% of workers earn \$60,970 or more.

Career Opportunities

Financial Clerk; Accounting Assistant; Bookkeeper; Accounts Payable Clerk; Bank Teller; Business Owner; Management Trainee.

Program Outcomes

- Perform basic functions of entry level bookkeeping/accounting positions.
- Use computer and related tools to perform financial reports and management reports.
- Be aware of the ethical issues facing the profession and the value of a responsible citizen.
- Know how to apply related accounting knowledge such as taxation, payroll, auditing in performing accounting/bookkeeping functions/work.

Additional Educational Opportunities

Associate of Science Degree to transfer to a university. BBA and MS in Accounting for CPA career.



Office/Computer Applications

Certificate (42 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ACNT 1303 - Introduction to Accounting I
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1309 - Integrated Software Applications I
POFT 1321 - Business Math
POFT 1329 - Beginning Keyboarding

Second Semester - 15 SCH

ITSW 1310 - Introduction to Presentation Graphics Software
ITSC 2321 - Integrated Software Applications II
POFT 1319 - Records & Information Management
POFT 1365 - Practicum - Administrative Assistant and Secretarial Science, General
POFT 2301 - Intermediate Keyboarding

Marketable Skills

- Answer telephones and give information to callers, take messages, or transfer calls to appropriate individuals.
- Greet visitors or callers and handle their inquiries or direct them to the appropriate persons according to their needs.
- Create, maintain, and enter information into databases.
- Use computers for various applications, such as database management or word processing.
- Operate office equipment, such as fax machines, copiers, or phone systems and arrange for repairs when equipment malfunctions.
- Customer Service

Program Outcomes

- Use oral, written, and presentation skills to communicate effectively in a business environment.
- Demonstrate proficiency in the use of integrated software.
- Display proficient administrative activities to meet the demands in a business setting
- Prepare and analyze financial information for business purposes.
- Exhibit employability and workplace skills.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$33,250; 10% of workers earn \$21,840 or less; 10% of workers earn \$44,760 or more.

Additional Educational Opportunities

Office Information Specialist Degree (AAS)

Career Opportunities

Secretary / Office Assistant; Information / Record Clerk; Office Financial Clerk.



Office Information Specialist

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ACNT 1303 - Introduction to Accounting I
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1309 - Integrated Software Applications I
POFT 1321 - Business Math
POFT 1329 - Beginning Keyboarding

Second Semester - 15 SCH

ENGL 1301 - Composition I
ITSC 2321 - Integrated Software Applications II
MATH 1332 - Contemporary Mathematics
POFT 1319 - Records & Information Management
POFT 2301 - Intermediate Keyboarding

Third Semester - 15 SCH

BUSG 1301 - Introduction to Business
BUSI 2301 - Business Law
BUSG 1304 - Introduction to Financial Advising
ITSW 1304 - Introduction to Spreadsheets
POFT 2312 - Business Correspondence & Communication

Fourth Semester - 15 SCH

ITSW 1310 - Introduction to Presentation Graphics Software
ECON 2302 - Principles of Microeconomics
MUSI 1306 - Music Appreciation
SPCH 1321 - Business & Professional Communication
POFT 1365 - Practicum - Administrative Assistant and Secretarial Science, General

Marketable Skills

- Answer telephones and give information to callers, take messages, or transfer calls to appropriate individuals.
- Greet visitors or callers and handle their inquiries or direct them to the appropriate persons according to their needs.
- Create, maintain, and enter information into databases.
- Use computers for various applications, such as database management or word processing.
- Operate office equipment, such as fax machines, copiers, or phone systems and arrange for repairs when equipment malfunctions.
- Customer Service

Program Outcomes

- Demonstrate effective business communication skills.
- Manage business information using appropriate software.
- Perform records management activities.
- Perform information processing activities.
- Perform office management activities.
- Prepare and use financial information.
- Demonstrate employability and workplace skills.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$36,330; 10% of workers earn \$21,740 or less; 10% of workers earn \$53,500 or more.

Additional Educational Opportunities

BAAS Degree (Bachelor of Applied Arts & Sciences)

Career Opportunities

Executive Secretary; Administrative Assistant; Secretary / Office Assistant; Office Manager; Information / Record Clerk; Financial clerk.



Air Conditioning

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
HART 1301 - Basic Electricity for HVAC
HART 1307 - Refrigeration Principles
HART 1310 - HVAC Shop Practices and Tools
PSYC 1300 - Learning Framework

Second Semester - 15 SCH

HART 1341 - Residential Air Conditioning
HART 1345 - Gas and Electric Heating
HART 2341 - Commercial Air Conditioning
HART 2349 - Heat Pumps
SPCH 1321 - Business & Professional Communication

Third Semester - 15 SCH

HART 2331 - Advanced Electricity for HVAC
HART 2336 - Air Conditioning Troubleshooting
HART 2338 - Air Conditioning Installation & Startup
HART 2345 - Residential Air Conditioning Systems Design
ENGL 1301 - Composition I

Fourth Semester - 15 SCH

HART 2334 - Advanced Air Conditioning Controls
HART 2343 - Industrial Air Conditioning
HART 1356 - EPA Recovery Certification Preparation
MATH 1332 - Contemporary Mathematics
DRAM 1310 - Introduction to Theater

Marketable Skills

- Test electrical circuits or components for continuity, using electrical test equipment.
- Repair or replace defective equipment, components, or wiring.
- Discuss heating or cooling system malfunctions with users to isolate problems or to verify that repairs corrected malfunctions.
- Connect heating or air conditioning equipment to fuel, water, or refrigerant source to form complete circuit.
- Install, connect, or adjust thermostats, humidistats, or timers.
- EPA recovery and certification.
- HVAC and Refrigeration Controls.
- Troubleshooting air conditioning and refrigeration systems.
- Installation and service of residential and commercial cooling and heating systems.
- Heat load calculation and duct design.

Program Outcomes

- Install, troubleshoot and repair refrigerators, freezers, and window air conditioners.
- Install, troubleshoot and repair split or package residential air conditioning systems, including electric furnaces, gas furnaces and heat pumps.
- Install, troubleshoot and repair split and package commercial air conditioning and refrigeration systems.
- Install, program, troubleshoot and repair residential, commercial and industrial Distributed Digital Control Systems.
- Become certified to handle CFC's, HCFC's, and HFC's.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$48,030; 10% of workers earn \$30,190 or less; 10% of workers earn \$72,010 or more.

Additional Educational Opportunities

Bachelor of Arts in Applied Science

Career Opportunities

Consulting; Controls Technician; Customer Service; Dispatcher/ Coordinator; Distributor; Distributor Counter Sales; Energy Auditor; Equipment Performance Testing Specialist; Estimator; Field Technical Specialist; Field Supervisor; HVAC Equipment Dealer; IAQ Inspector; Inside Sales and Outside Sales; Installer; Product Technical Support; Project Manager; Public Relations; Purchasing; Sheet Metal Fabrication; Parts Store Manager; Technical Training Instructor; Shop Maintenance; Service Technician; Contractor.



Air Conditioning

Certificate (39 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

HART 1301 - Basic Electricity for HVAC
HART 1303 - Air Conditioning Control Principles
HART 1307 - Refrigeration Principles
HART 1310 - HVAC Shop Practices and Tools

Second Semester - 12 SCH

HART 1341 - Residential Air Conditioning
HART 1345 - Gas and Electric Heating
HART 2341 - Commercial Air Conditioning
HART 2349 - Heat Pumps

Third Semester - 15 SCH

HART 1356 - EPA Recovery Certification Preparation
HART 2331 - Advanced Electricity for HVAC
HART 2336 - Air Conditioning Troubleshooting
HART 2338 - Air Conditioning Installation & Startup
HART 2345 - Residential Air Conditioning Systems Design

Marketable Skills

- Test electrical circuits or components for continuity, using electrical test equipment.
- Repair or replace defective equipment, components, or wiring.
- Discuss heating or cooling system malfunctions with users to isolate problems or to verify that repairs corrected malfunctions.
- Connect heating or air conditioning equipment to fuel, water, or refrigerant source to form complete circuit.
- Install, connect, or adjust thermostats, humidistats, or timers.
- EPA recovery and certification.
- HVAC and Refrigeration controls.
- Troubleshooting air conditioning and refrigeration systems.
- Installation and service of residential and commercial cooling and heating systems.
- Heat load calculation and duct design.

Program Outcomes

- Install, troubleshoot and repair refrigerators, freezers, and window air conditioners.
- Install, troubleshoot and repair split or package residential air conditioning systems, including electric furnaces, gas furnaces and heat pumps.
- Install, troubleshoot and repair split and package commercial air conditioning and refrigeration systems.
- Install, program, troubleshoot and repair residential, commercial and industrial Distributed Digital Control Systems.
- Become certified to handle CFC's, HCFC's, and HFC's.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$48,030; 10% of workers earn \$30,190 or less; 10% of workers earn \$72,010 or more.

Additional Educational Opportunities

Associate of Applied Science in Air Conditioning

Career Opportunities

Consulting; Controls Technician; Customer Service; Dispatcher/ Coordinator; Distributor; Distributor Counter Sales; Energy Auditor; Equipment Performance Testing Specialist; Estimator; Field Technical Specialist; Field Supervisor; HVAC Equipment Dealer; IAQ Inspector; Inside Sales and Outside Sales; Installer; Product Technical Support; Project Manager; Public Relations; Purchasing; Sheet Metal Fabrication; Parts Store Manager; Technical Training Instructor; Shop Maintenance; Service Technician; Contractor.



Distributed Digital Control in Air Conditioning

Certificate (15 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

HART 1351 - Energy Management
HART 2334 - Advanced Air Conditioning Controls
HART 2342 - Commercial Refrigeration
HART 2343 - Industrial Air Conditioning
HART 2350 - HVAC Zone Controls

Marketable Skills

- Modify, maintain, or repair electronics equipment or systems to ensure proper functioning.
- Replace defective components or parts, using hand tools and precision instruments.
- Set up and operate specialized or standard test equipment to diagnose, test, or analyze the performance of electronic components, assemblies, or systems.
- Read blueprints, wiring diagrams, schematic drawings, or engineering instructions for assembling electronics units, applying knowledge of electronic theory and components.
- Identify and resolve equipment malfunctions, working with manufacturers or field representatives as necessary to procure replacement parts.
- EPA recovery and certification.
- HVAC and Refrigeration controls.
- Installation, programming, service, and troubleshooting of Distributed Digital Control Systems.
- Heat load calculation and duct design.

Program Outcomes

- Install, troubleshoot and repair refrigerators, freezers, and window air conditioners.
- Install, troubleshoot and repair split or package residential air conditioning systems, including electric furnaces, gas furnaces and heat pumps.
- Install, troubleshoot and repair split and package commercial air conditioning and refrigeration systems.
- Install, program, troubleshoot and repair residential, commercial and industrial Distributed Digital Control Systems.
- Become certified to handle CFC's, HCFC's, and HFC's.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$69,310; 10% of workers earn \$41,680 or less; 10% of workers earn \$99,200 or more.

Additional Educational Opportunities

Associate of Applied Science in Air Conditioning

Career Opportunities

Consulting; Controls Technician; Customer Service; Dispatcher/ Coordinator; Distributor; Distributor Counter Sales; Energy Auditor; Equipment Performance Testing Specialist; Estimator; Field Technical Specialist; Field Supervisor; HVAC Equipment Dealer; IAQ Inspector; Inside Sales and Outside Sales; Installer; Product Technical Support; Project Manager; Public Relations; Purchasing; Sheet Metal Fabrication; Parts Store Manager; Technical Training Instructor; Shop Maintenance; Service Technician; Contractor.



Computer-Aided Design

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

PSYC 1300 - Learning Framework
DFTG 1309 - Basic Computer-Aided Drafting
DFTG 1305 - Technical Drafting
DFTG 2319 - Intermediate Computer-Aided Drafting
DFTG 1325 - Blueprint Reading and Sketching

Second Semester - 15 SCH

DFTG 1345 - Parametric Modeling and Design
DFTG 2312 - Technical Illustration and Presentation
DFTG 2302 - Machine Drafting
DFTG 2340 - Solid Modeling/Design
SPCH 1321 - Business & Professional Communication

Third Semester - 15 SCH

DFTG 1317 - Architectural Drafting - Residential
DFTG 2321 - Topographical Drafting
DFTG 2331 - Advanced Technologies in Architectural Design and Drafting
DFTG 2328 - Architectural Drafting - Commercial
ENGL 1301 - Composition I

Fourth Semester - 15 SCH

DFTG 1358 - Electrical/Electronic/Drawing
DFTG 2323 - Pipe Drafting
DFTG 2338 - Final Project - Advanced Drafting
MATH 1314 - College Algebra
DRAM 1310 - Introduction to Theater

Marketable Skills

Autodesk AutoCAD Civil 3D; Autodesk Revit; Bentley MicroStation; Trimble SketchUp Pro; Adobe Creative Suite; C; Microsoft.NET Framework; Adobe Illustrator; Adobe Photoshop; ESRI ArcGIS software; ESRI ArcView; Geomechanical design analysis GDA software; Topographic map software; Microsoft PowerPoint; Produce drawings, using computer-assisted drafting systems; Draft plans and detailed drawings for structures, installations, and construction projects; Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans; Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$54,880; 10% of workers earn \$33,420 or less; 10% of workers earn \$81,880 or more.

Career Opportunities

Prepare detailed drawings of architectural and structural features of buildings or drawings and topographical relief maps used in civil engineering projects. Use knowledge of building materials, engineering practices, and mathematics to complete drawings. Architectural Designer, Architectural Drafter, Architectural Draftsman, Civil Drafter, CAD Designer, CADD Drafter, Drafting Technician, Draftsman, Draftsperson, Rapid prototyping technician, Parametric modeler.

Program Outcomes

- Operate a 2D CAD Design program.
- Read and interpret blueprints.
- Design and document in 3D with a parametric modeling program.
- Create construction and manufacturing documents using various CAD programs.
- Operate and maintain a 3D printer.

Additional Education Opportunities

Bachelor of Arts in Applied Science



CAD Specialist

Certificate (45 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

DFTG 1305 - Technical Drafting
DFTG 1309 - Basic Computer-Aided Drafting
DFTG 1325 - Blueprint Reading and Sketching
DFTG 2319 - Intermediate Computer-Aided Drafting

Second Semester - 12 SCH

DFTG 1345 - Parametric Modeling and Design
DFTG 2302 - Machine Drafting
DFTG 2312 - Technical Illustration and Presentation
DFTG 2340 - Solid Modeling/Design

Third Semester - 12 SCH

DFTG 1317 - Architectural Drafting - Residential
DFTG 2321 - Topographical Drafting
DFTG 2328 - Architectural Drafting - Commercial
DFTG 2331 - Advanced Technologies in Architectural Design and Drafting

Fourth Semester - 9 SCH

DFTG 1358 - Electrical/Electronic/Drawing
DFTG 2323 - Pipe Drafting
DFTG 2338 - Final Project - Advanced Drafting

Marketable Skills

Autodesk AutoCAD Civil 3D; Autodesk Revit; Bentley MicroStation; Trimble SketchUp Pro; Adobe Creative Suite; C; Microsoft.NET Framework; Adobe Illustrator; Adobe Photoshop; ESRI ArcGIS software; ESRI ArcView; Geomechanical design analysis GDA software; Topographic map software; Microsoft PowerPoint; Produce drawings, using computer-assisted drafting systems; Draft plans and detailed drawings for structures, installations, and construction projects; Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans; Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.

Program Outcomes

- Operate a 2D CAD Design program.
- Read and interpret blueprints.
- Design and document in 3D with a parametric modeling program.
- Create construction and manufacturing documents using various CAD programs.
- Operate and maintain a 3D printer.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$54,880; 10% of workers earn \$33,420 or less; 10% of workers earn \$81,880 or more.

Career Opportunities

CAD Technician; Architectural CAD Designer; Mechanical CAD Designer; Civil CAD Designer; Pipe CAD Designer; Electrical CAD Designer; Surveyor CAD Technician; Graphics Designer; Rapid Prototyping Technician; Parametric Modeler; Building Information Modeler; Landscape Designer Technician; Interior Designer Technician.



CAD Technician

Certificate (36 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

DFTG 1305 - Technical Drafting
DFTG 1309 - Basic Computer-Aided Drafting
DFTG 1325 - Blueprint Reading and Sketching
DFTG 2319 - Intermediate Computer-Aided Drafting

Second Semester - 12 SCH

DFTG 1345 - Parametric Modeling and Design
DFTG 2302 - Machine Drafting
DFTG 2312 - Technical Illustration and Presentation
DFTG 2340 - Solid Modeling/Design

Third Semester - 12 SCH

DFTG 1317 - Architectural Drafting - Residential
DFTG 2321 - Topographical Drafting
DFTG 2328 - Architectural Drafting - Commercial
DFTG 2331 - Advanced Technologies in Architectural Design and Drafting

Marketable Skills

Autodesk AutoCAD Civil 3D; Autodesk Revit; Bentley MicroStation; Trimble SketchUp Pro; Adobe Creative Suite; C; Microsoft.NET Framework; Adobe Illustrator; Adobe Photoshop; ESRI ArcGIS software; ESRI ArcView; Geomechanical design analysis GDA software; Topographic map software; Microsoft PowerPoint; Produce drawings, using computer-assisted drafting systems; Draft plans and detailed drawings for structures, installations, and construction projects; Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans; Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.

Program Outcomes

- Operate a 2D CAD Design program.
- Read and interpret blueprints.
- Design and document in 3D with a parametric modeling program.
- Create construction and manufacturing documents using various CAD programs.
- Operate and maintain a 3D printer.

High School Endorsements

Business and Industry

Additional Educational Opportunities

Associate in Applied Science, Bachelor of Arts in Applied Science

Expected Salary

Texas wage data: workers on average earn \$54,880; 10% of workers earn \$33,420 or less; 10% of workers earn \$81,880 or more.

Career Opportunities

CAD Technician; Architectural CAD Designer; Mechanical CAD Designer; Civil CAD Designer; Pipe CAD Designer; Electrical CAD Designer; Surveyor CAD Technician; Graphics Designer; Rapid Prototyping Technician; Parametric Modeler; Building Information Modeler; Landscape Designer Technician; Interior Designer Technician.



3D Prototyping

Certificate (27 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

DFTG 1305 - Technical Drafting
DFTG 1309 - Basic Computer-Aided Drafting
DFTG 1325 - Blueprint Reading and Sketching
DFTG 2319 - Intermediate Computer-Aided Drafting

Second Semester - 15 SCH

DFTG 1345 - Parametric Modeling and Design
DFTG 2302 - Machine Drafting
DFTG 2312 - Technical Illustration and Presentation
DFTG 2332 - Advanced Computer-Aided Drafting
DFTG 2340 - Solid Modeling/Design

Marketable Skills

Autodesk AutoCAD Civil 3D; Autodesk Revit; Bentley MicroStation; Trimble SketchUp Pro; Adobe Creative Suite; C; Microsoft.NET Framework; Adobe Illustrator; Adobe Photoshop; ESRI ArcGIS software; ESRI ArcView; Geomechanical design analysis GDA software; Topographic map software; Microsoft PowerPoint; Produce drawings, using computer-assisted drafting systems; Draft plans and detailed drawings for structures, installations, and construction projects; Coordinate structural, electrical, and mechanical designs and determine a method of presentation to graphically represent building plans; Analyze building codes, by-laws, space and site requirements, and other technical documents and reports to determine their effect on architectural designs.

Program Outcomes

- Operate a 2D CAD Design program.
- Read and interpret blueprints.
- Design and document in 3D with a parametric modeling program.
- Create construction and manufacturing documents using various CAD programs.
- Operate and maintain a 3D printer.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$54,880; 10% of workers earn \$33,420 or less; 10% of workers earn \$81,880 or more.

Additional Educational Opportunities

Associate in Applied Science, Bachelor of Arts in Applied Science

Career Opportunities

CAD Technician; Architectural CAD Designer; Mechanical CAD Designer; Civil CAD Designer; Pipe CAD Designer; Electrical CAD Designer; Surveyor CAD Technician; Graphics Designer; Rapid Prototyping Technician; Parametric Modeler; Building Information Modeler; Landscape Designer Technician; Interior Designer Technician.



Electrician

Certificate (24 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

CNBT 2342 - Construction Management I
ELPT 1325 - National Electrical Code I
ELPT 1311 - Basic Electrical Theory
ELPT 1329 - Residential Wiring

Second Semester - 12 SCH

CNBT 2310 - Commercial/Industrial Blueprint Reading
ELPT 1345 - Commercial Wiring
ELPT 1357 - Industrial Wiring
ELPT 2305 - Motors and Transformers

Marketable Skills

- Plan layout and installation of electrical wiring, equipment, or fixtures
- Acquire and evaluate information
- Interpret and communicate information
- Electrical construction management
- Residential, commercial, industrial blueprint reading
- OSHA - Construction and General Industries
- Electrical Safety and Tools
- National Electrical Code
- Residential load calculation and service entrance sizing
- Commercial electrical load calculation
- Overcurrent protection
- Raceway panel installation
- Single and poly-phase DC and AC motors, generators and alternators Industrial wiring, motor circuits, raceways and busways
- Single and three-phase motors and transformers
- Transformer banking, power factor correction and protective devices.

Program Outcomes

- Apprentice Electrician
- Trouble shooting Residential Electrical Systems
- Trouble shooting Commercial Electrical Systems
- Trouble Shooting Industrial Electrical Systems
- Residential Electrician (Apprentice)
- Commercial Electrician (Apprentice)
- Industrial Electrician (Apprentice)
- Apprentice Electrician Conduit Bending

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$50,100; 10% of workers earn \$31,500 or less; 10% of workers earn \$74,860 or more.

Additional Educational Opportunities

Associate in Applied Science, Bachelor of Arts in Applied Science

Career Opportunities

Inside Wireman; Outside Lineman; Residential Wireman; Installer Technician; Electrician; Electrical Maintenance Worker; Construction Electrician; Appliance Installer; Sign Electrician; Motor Repair; Electrical and Electronics Installers and Repairers; Electronic Home Entertainment Equipment Installers and Repairers; Electrical Drafters; Construction and Building Inspectors; Elevator Installation and Maintenance; Electrical and Electronic Equipment Assemblers; Electrical Installers and Repairers; Electrical Inspectors.



Horology Technology

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

PSYC 1300 - Learning Framework
HRGY 1319 - Basic Horology I
HRGY 1320 - Basic Horology II
HRGY 1321 - Basic Horology III
HRGY 1322 - Basic Horology IV

Second Semester - 15 SCH

COSC 1301 - Introduction to Computing
HRGY 2301 - Intermediate Horology I
HRGY 2302 - Intermediate Horology II
HRGY 2303 - Intermediate Horology III
HRGY 2304 - Intermediate Horology IV

Third Semester - 15 SCH

ENGL 1301 - Composition I
HRGY 2305 - Intermediate Horology V
HRGY 2306 - Intermediate Horology VI
HRGY 2307 - Intermediate Horology VII
HRGY 2308 - Intermediate Horology VIII

Fourth Semester - 15 SCH

MATH 1332 - Contemporary Mathematics
ARTS 1301 - Art Appreciation
HRGY 2341 - Advanced Horology Systems I
HRGY 2342 - Advanced Horology Systems II
HRGY 2343 - Advanced Horology Systems III

Marketable Skills

- Clean, rinse, and dry timepiece parts
- Adjust timing regulators
- Customer and Personal Service
- Watch Repair
- Knowledge of industry tools and equipment
- Knowledge of industry organization and ethics

Program Outcomes

- Demonstrate skills by performing disassembly, cleaning, oiling, repair and adjustment operations on multi function mechanical movements, automatics and calendar chronographs, quartz analog and digital time pieces.
- Demonstrate skills by making tools and watch parts including turning parts on a watchmakers lathe to 1/100 mm tolerance reflecting industry standards.

High School Endorsements

Business and Industry

Additional Education Opportunities

Graduates may pursue a BAAS degree. Brand specific training through major watch companies. Watchmaker training in Switzerland. Industry specific Aircraft instrumentation service training. Industry specific Aerospace instrumentation production and technical training.

Expected Salary

Texas wage data: workers on average earn \$39,010; 10% of workers earn \$33,490 or less; 10% of workers earn \$60,330 or more.

Career Opportunities

Aerospace Instrument Technician; Watch Repair Shop Owner; Aircraft Instrument Technician.



Horology Technology

Certificate (45 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

HRGY 1319 - Basic Horology I
HRGY 1320 - Basic Horology II
HRGY 1321 - Basic Horology III
HRGY 1322 - Basic Horology IV

Second Semester - 12 SCH

HRGY 2301 - Intermediate Horology I
HRGY 2302 - Intermediate Horology II
HRGY 2303 - Intermediate Horology III
HRGY 2304 - Intermediate Horology IV

Third Semester - 12 SCH

HRGY 2305 - Intermediate Horology V
HRGY 2306 - Intermediate Horology VI
HRGY 2307 - Intermediate Horology VII
HRGY 2308 - Intermediate Horology VIII

Fourth Semester - 9 SCH

HRGY 2341 - Advanced Horology Systems I
HRGY 2342 - Advanced Horology Systems II
HRGY 2343 - Advanced Horology Systems III

Marketable Skills

- Clean, rinse, and dry timepiece parts
- Adjust timing regulators
- Customer and Personal Service
- Watch Repair
- Knowledge of industry tools and equipment
- Knowledge of industry organization and ethics

Program Outcomes

- Demonstrate skills by performing disassembly, cleaning, oiling, repair and adjustment operations on multi function mechanical movements, automatics and calendar chronographs, quartz analog and digital time pieces.
- Demonstrate skills by making tools and watch parts including turning parts on a watchmakers lathe to 1/100 mm tolerance reflecting industry standards.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$39,010; 10% of workers earn \$33,490 or less; 10% of workers earn \$60,330 or more.

Additional Education Opportunities

Graduates may pursue a BAAS degree. Brand specific training through major watch companies. Watchmaker training in Switzerland. Industry specific Aircraft instrumentation service training. Industry specific Aerospace instrumentation production and technical training.

Career Opportunities

Watchmaker; Watch and Clock Sales; Aerospace Instrument Technician; Watch Repair Shop Owner; Aircraft Instrument Technician.



Fine Mechanical Watch Repair

Certificate (36 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

HRGY 1319 - Basic Horology I
HRGY 1320 - Basic Horology II
HRGY 1321 - Basic Horology III
HRGY 1322 - Basic Horology IV

Second Semester - 12 SCH

HRGY 2301 - Intermediate Horology I
HRGY 2302 - Intermediate Horology II
HRGY 2303 - Intermediate Horology III
HRGY 2304 - Intermediate Horology IV

Third Semester - 12 SCH

HRGY 2305 - Intermediate Horology V
HRGY 2306 - Intermediate Horology VI
HRGY 2307 - Intermediate Horology VII
HRGY 2308 - Intermediate Horology VIII

Marketable Skills

- Clean, rinse, and dry timepiece parts
- Adjust timing regulators
- Customer and Personal Service
- Watch Repair
- Knowledge of industry tools and equipment
- Knowledge of industry organization and ethics

Program Outcomes

- Demonstrate skills by performing disassembly, cleaning, oiling, repair and adjustment operations on multi function mechanical movements, automatics and calendar chronographs, quartz analog and digital time pieces.
- Demonstrate skills by making tools and watch parts including turning parts on a watchmakers lathe to 1/100 mm tolerance reflecting industry standards.

High School Endorsements

Business and Industry

Additional Education Opportunities

Graduates may pursue a BAAS degree. Brand specific training through major watch companies. Watchmaker training in Switzerland. Industry specific Aircraft instrumentation service training. Industry specific Aerospace instrumentation production and technical training.

Expected Salary

Texas wage data: workers on average earn \$39,010; 10% of workers earn \$33,490 or less; 10% of workers earn \$60,330 or more.

Career Opportunities

Watchmaker; Watch and Clock Sales; Aerospace Instrument Technician; Watch Repair Shop Owner; Aircraft Instrument Technician.



Jewelry Technology

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

PSYC 1300 - Learning Framework
HRGY 1301 - Jewelry Techniques I
HRGY 1302 - Jewelry Techniques II
HRGY 1303 - Jewelry Techniques III
HRGY 1348 - Jewelry Repair/Fabrication I

Second Semester - 15 SCH

COSC 1301 - Introduction to Computing
HRGY 1309 - Casting I
HRGY 2333 - Casting II
HRGY 1349 - Jewelry Repair/Fabrication II
HRGY 1341 - Stone Setting I

Third Semester - 15 SCH

ENGL 1301 - Composition I
HRGY 1342 - Stone Setting II
HRGY 1343 - Stone Setting III
HRGY 1344 - Stone Setting IV
HRGY 2335 - Precious Metals I

Fourth Semester - 15 SCH

MATH 1332 - Contemporary Mathematics
ARTS 1301 - Art Appreciation
HRGY 2336 - Precious Metals II
HRGY 2337 - Precious Metals III
HRGY 2338 - Precious Metals IV

Marketable Skills

- Create jewelry from gold, silver, platinum
- Smooth soldered joints and rough spots
- Customer and Personal Service
- Jewelry Repair and Fabrication
- Casting
- Stone Setting
- Knowledge of industry tools and equipment

Program Outcomes

- Demonstrates skills in metal fabrication techniques: layout, sawing, filing, drilling, finishing, polishing, soldering, shaping, forming, doming, wire rolling and drawing.
- Demonstrates skills in casting techniques: wax carving, injecting, spruing, treeing, investing, and casting centrifugally and by vacuum.
- Demonstrates skills in jewelry repair: sizing, chain repair, tipping, beading, pronging, and plating.
- Demonstrates skills in setting such as: single and multiple round and fancy-cut stones into various mountings styles.
- Demonstrates knowledge of industry practices and ethics.

High School Endorsements

Business and Industry

Additional Education Opportunities

Students pursuing an AAS in Jewelry Technology might also want to pursue a BAAS degree or Certifications in Gemology or CAD/CAM.

Expected Salary

Texas wage data: workers on average earn \$38,590; 10% of workers earn \$23,820 or less; 10% of workers earn \$57,500 or more.

Career Opportunities

Retail Jewelry Sales Professional; Jewelry Store Manager; Bench/Manufacturing Jeweler; Jewelry Designer; Jewelry Lab Grader/Quality Assurance Technician.



Jewelry Technology

Certificate (45 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

HRGY 1301 - Jewelry Techniques I
HRGY 1302 - Jewelry Techniques II
HRGY 1303 - Jewelry Techniques III
HRGY 1348 - Jewelry Repair/Fabrication I

Second Semester - 12 SCH

HRGY 1309 - Casting I
HRGY 1341 - Stone Setting I
HRGY 1349 - Jewelry Repair/Fabrication II
HRGY 2333 - Casting II

Third Semester - 12 SCH

HRGY 1342 - Stone Setting II
HRGY 1343 - Stone Setting III
HRGY 1344 - Stone Setting IV
HRGY 2335 - Precious Metals I

Fourth Semester - 9 SCH

HRGY 2336 - Precious Metals II
HRGY 2337 - Precious Metals III
HRGY 2338 - Precious Metals IV

Marketable Skills

- Create jewelry from gold, silver, platinum
- Smooth soldered joints and rough spots
- Customer and Personal Service
- Jewelry Repair and Fabrication
- Casting
- Stone Setting
- Knowledge of industry tools and equipment

Program Outcomes

- Demonstrates skills in metal fabrication techniques: layout, sawing, filing, drilling, finishing, polishing, soldering, shaping, forming, doming, wire rolling and drawing.
- Demonstrates skills in casting techniques: wax carving, injecting, spruing, treeing, investing, and casting centrifugally and by vacuum.
- Demonstrates skills in jewelry repair: sizing, chain repair, tipping, beading, pronging, and plating.
- Demonstrates skills in setting such as: single and multiple round and fancy-cut stones into various mountings styles.
- Demonstrates knowledge of industry practices and ethics.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$38,590; 10% of workers earn \$23,820 or less; 10% of workers earn \$57,500 or more.

Additional Education Opportunities

Students pursuing an AAS in Jewelry Technology, and might also want to pursue Certifications in Gemology or CAD/CAM.

Career Opportunities

Retail Jewelry Sales Professional; Jewelry Store Manager; Bench/Manufacturing Jeweler; Jewelry Designer; Jewelry Lab Grader/Quality Assurance Technician.



Repair Technician

Certificate (33 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

HRGY 1301 - Jewelry Techniques I
HRGY 1302 - Jewelry Techniques II
HRGY 1303 - Jewelry Techniques III
HRGY 1348 - Jewelry Repair/Fabrication I

Second Semester - 12 SCH

HRGY 1309 - Casting I
HRGY 1341 - Stone Setting I
HRGY 1349 - Jewelry Repair/Fabrication II
HRGY 2333 - Casting II

Third Semester - 9 SCH

HRGY 1342 - Stone Setting II
HRGY 1343 - Stone Setting III
HRGY 1344 - Stone Setting IV

Marketable Skills

- Create jewelry from gold, silver, platinum
- Smooth soldered joints and rough spots
- Customer and Personal Service
- Jewelry Repair and Fabrication
- Casting
- Stone Setting
- Knowledge of industry tools and equipment

Program Outcomes

- Demonstrates skills in metal fabrication techniques: layout, sawing, filing, drilling, finishing, polishing, soldering, shaping, forming, doming, wire rolling and drawing.
- Demonstrates skills in casting techniques: wax carving, injecting, spruing, treeing, investing, and casting centrifugally and by vacuum.
- Demonstrates skills in jewelry repair: sizing, chain repair, tipping, beading, pronging, and plating.
- Demonstrates skills in setting such as: single and multiple round and fancy-cut stones into various mountings styles.
- Demonstrates knowledge of industry practices and ethics.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$38,590; 10% of workers earn \$23,820 or less; 10% of workers earn \$57,500 or more.

Additional Education Opportunities

Students pursuing an AAS in Jewelry Technology, and might also want to pursue Certifications in Gemology or CAD/CAM.

Career Opportunities

Retail Jewelry Sales Professional; Jewelry Store Manager; Bench/Manufacturing Jeweler; Jewelry Designer; Jewelry Lab Grader/Quality Assurance Technician.



Computer Aided Design

Certificate (36 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

HRGY 1301 - Jewelry Techniques I
HRGY 1302 - Jewelry Techniques II
HRGY 1303 - Jewelry Techniques III
HRGY 1348 - Jewelry Repair/Fabrication I

Second Semester - 12 SCH

HRGY 1309 - Casting I
HRGY 1341 - Stone Setting I
HRGY 1349 - Jewelry Repair/Fabrication II
HRGY 2333 - Casting II

Third Semester - 12 SCH

HRGY 1371 - Introduction to Computer Aided Jewelry Design
HRGY 1372 - Technical Illustration for Jewelry Design
HRGY 1373 - Basic Computer Aided Drafting for Jewelry Design
HRGY 1374 - Solid Modeling Design for Jewelry

Marketable Skills

- Computer aided design CAD software
- Data base user interface and query software
- Analyzing information and evaluating results
- Handling and Moving Objects

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$38,590; 10% of workers earn \$23,820 or less; 10% of workers earn \$57,500 or more.

Career Opportunities

Retail Jewelry Sales Professional; Jewelry Designer; Jewelry Store Manager; Jewelry Lab Grader/Quality Assurance Technician; Bench/Manufacturing Jeweler; Computer Aided Design in Other Industry.

Program Outcomes

- Demonstrates skills in creating a working foundation in interpreting and creating computer generated designs including skills that apply techniques used in the industry.
- Demonstrates skills in use of the scientific empirical approach used in related earth sciences by practical demonstration of optical and comparative relative density testing and interpretation.
- Demonstrates skills and knowledge of collaborative techniques in managing a complex computer system to demonstrate repeatable measurable outcomes.
- Demonstrates skills in collaborating ideas to create a workable design that incorporates professional stone setting, casting and bench skills used in the industry.

Additional Education Opportunities

Students pursuing a certificate in CAD/CAM may also complete an AAS degree in Jewelry Technology, Horology or other certifications in jewelry, Horology, or Gemology. Opportunities also include training in the Arts or Sciences as undergraduates or graduate levels.



Gemology

Certificate (18 SCH*)

*Semester Credit Hour

4/2022

First Semester - 18 SCH

**BUSG 2309 - Small Business Management/
Entrepreneurship**

BUSI 2301 - Business Law

**HRGY 1313 - Fundamentals of Gemology I
(Diamonds)**

**HRGY 1314 - Fundamentals of Gemology II
(Colored Stones)**

HRGY 1350 - Intermediate Gemology

HRGY 2331 - Advanced Gemological Practice

Marketable Skills

- Assign polish, symmetry, and clarity grades to stones, according to established grading systems
- Estimate wholesale and retail value of gems
- Examine gem surfaces and internal structures
- Identify and document stones' clarity characteristics

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$38,590; 10% of workers earn \$23,820 or less; 10% of workers earn \$57,500 or more.

Career Opportunities

Retail Jewelry Sales Professional; Jewelry Store Manager; Jewelry Lab Grader/Quality Assurance Technician; Jewelry Appraisal Professional; Gemological Research Technician.

Program Outcomes

- Demonstrates skills in classifying gemstones to identify unknowns using standardized gemologically recognized techniques used in the industry.
- Demonstrates skills in use of the scientific empirical approach used in related earth sciences by practical demonstration of optical and comparative relative density testing and interpretation.
- Demonstrates skills and knowledge of collaborative techniques in managing complex scientific systems to demonstrate repeatable measurable outcomes.
- Demonstrates skills in collection of data to organize a database to communicate and compare with others gemstone professionals to confirm identities of unknown gemstones.

Additional Education Opportunities

Students pursuing a certificate in Gemology may also complete an AAS degree in Jewelry Technology, Horology or other certifications in Jewelry, Horology, or Jewelry Design CAD. Opportunities also include training in the Arts or Sciences as undergraduates or graduate levels. Opportunities are available for training in Jewelry Appraisal Practices through ISA, ASA, or the MasterValuer Program.



Mechatronics

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

CETT 1409 - DC-AC Circuits
PSYC 1300 - Learning Framework
ELMT 2333 - Industrial Electronics
ELPT 1221 - Introduction to Electrical Safety and Tools
MATH 2312 - Pre-Calculus Math

Second Semester - 15 SCH

CETT 1349 - Digital Systems
HYDR 1345 - Hydraulics and Pneumatics
INTC 1341 - Principles of Automatic Control
RBTC 1301 - Programmable Logic Controllers
RBTC 1351 - Robotic Mechanisms

Third Semester - 15 SCH

COSC 1301 - Introduction to Computing
ELMT 2337 - Electronic Troubleshooting, Service and Repair
ELPT 1351 - Electrical Machines
ELPT 2319 - Programmable Logic Controllers I
SPCH 1321 - Business & Professional Communication

Fourth Semester - 15 SCH

DRAM 1301 - Introduction to Theater
ELPT 2355 - Programmable Logic Controllers II
ENGL 1301 - Composition I
ENTC 1349 - Reliability and Maintainability
INMT 2345 - Industrial Troubleshooting

Marketable Skills

- Acquire and evaluate information
- Interpret and communicate information
- Use computer software to maintain production
- Problem-solving
- OSHA - General Industries
- Maintain digital and solid state devices
- Repair and maintain fluid and pneumatic systems
- Monitor mechanical and electronic devices, circuits, and systems used in automated manufacturing or process control
- Electronic system maintenance, troubleshooting and repair
- Use programmable logic controllers
- Installation, maintenance and repair of automatic control systems
- Install, maintain and repair robotic mechanisms
- Installation, maintenance and repair of four bar linkages, cams, gears and gear trains.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$117,650; 10% of workers earn \$64,300 or less; 10% of workers earn \$178,120 or more.

Career Opportunities

Electronics Technician; Electromechanical Technician; Maintenance Technician-Electrical and Mechanical; Industrial Electrician; Industrial Mechanic; Robotics Technician; Wind Turbine Technician; Field Service Technician; Manufacturing Systems Technician; Automation Technician; Process Technician; Power Plant Technician; Fluid Power Technician; Equipment Technician; Power Tool Repair Technician; Plant Engineering Systems Technician; Engineering Technician.

Program Outcomes

Maintain equipment in an industrial setting including the use of Programmable Logic Controllers, Variable Frequency Drives, hydraulic and pneumatic systems, communications between systems and mechanical systems.

Additional Education Opportunities

Bachelor of Arts in Applied Science



Mechatronics

Certificate (30 SCH*)

*Semester Credit Hour

4/2022

First Semester - 9 SCH

CETT 1409 - DC-AC Circuits
ELMT 2333 - Industrial Electronics
ELPT 1221 - Introduction to Electrical Safety and Tools

Second Semester - 12 SCH

ENTC 1349 - Reliability and Maintainability
RBTC 1351 - Robotic Mechanisms
RBTC 1301 - Programmable Logic Controllers
HYDR 1345 - Hydraulics and Pneumatics

Third Semester - 12 SCH

ELMT 2337 - Electronic Troubleshooting
ELPT 2319 - Programmable Logic Controllers I
ELPT 1351 - Electrical Machines

Marketable Skills

Math Skills; manage time and materials; acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision making; problem solving; self-management; OSHA-General Industries; digital electronics; solid state devices; solid state circuits; microprocessors; linear integrated circuits; DC-AC circuits; fluid power; mechatronics tools and instruments; electronics devices, circuits, and systems used in automated manufacturing or process control; Electronic system maintenance, troubleshooting and repair; programmable logic controllers; mechanical, hydraulic, and pneumatic troubleshooting; installation, maintenance and repair of automatic control systems; installation, maintenance and repair of robotic mechanisms; installation, maintenance and repair of four bar linkages, cams, gears and gear trains.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$117,650; 10% of workers earn \$64,300 or less; 10% of workers earn \$178,120 or more.

Career Opportunities

Electronics Technician; Electromechanical Technician; Maintenance Technician-Electrical and Mechanical; Industrial Electrician; Industrial Mechanic; Robotics Technician; Wind Turbine Technician; Field Service Technician; Manufacturing Systems Technician; Automation Technician; Process Technician; Power Plant Technician; Fluid Power Technician; Equipment Technician; Power Tool Repair Technician; Plant Engineering Systems Technician; Engineering Technician.

Program Outcomes

Maintain equipment in an industrial setting including the use of Programmable Logic Controllers, Variable Frequency Drives, hydraulic and pneumatic systems, communications between systems and mechanical systems.

Additional Education Opportunities

Associate of Applied Science, Bachelor of Arts in Applied Science



Networking

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

PSYC 1300 - Learning Framework
DRAM 1310 - Introduction to Theater
ITNW 1325 - Fundamentals of Networking Technologies
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1325 - Personal Computer Hardware

Second Semester - 15 SCH

COSC 1301 – Introduction to Computing
IMED 1316 - Web Design I
ITNW 1351 - Fundamentals of Wireless LANs
ITSC 1321 - Intermediate PC Operating Systems
MATH 1332 - Contemporary Mathematics

Third Semester - 15 SCH

ENGL 1301 - Composition I
ITNW 1354 - Implementing and Supporting Servers
ITSC 2339 - Personal Computer Help Desk Support
ITNW 2313 - Networking Hardware
ITSW 1304 - Introduction to Spreadsheets

Fourth Semester - 15 SCH

ITSW 1307 - Introduction to Database
ITNW 2305 - Network Administration
ITSW 2334 - Advanced Spreadsheets
ITSC 1364 – Practicum - Computer and Information Sciences, General
ITSY 1342 - Information Technology Security

Marketable Skills

- Analyzing Data or Information
- Making Decisions and Solving Problems
- Evaluating results to choose the best solution
- Updating and Using Relevant Knowledge
- Identifying Objects, Actions, and Events
- Developing computer security policies or procedures
- Recommend changes to improve computer systems
- Maintain contingency plans for disaster recovery
- Monitor the performance of computer networks

Program Outcomes

- Demonstrate techniques to design a secure network
- Ability to evaluate resources and make relevant recommendation for purchase or upgrade of a system
- Recognize the interaction of stand-alone and network devices, operating systems, and applications.
- Identify tools, diagnostic procedures and troubleshooting techniques for networks and personal computer components.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$120,000; 10% of workers earn \$68,640 or less; 10% of workers earn \$170,170 or more.

Additional Education Opportunities

Students may continue their education through a Bachelor of Arts in Applied Science degree.

Career Opportunities

Network Administrator; Personal Computer Technician; Help Desk/Technical Support Specialist; Information Security Specialist; Network Technician; Computer Support Specialist; Information Technology Support Specialists; Network Infrastructure Support.



Computer Support Tech-A+

Certificate (30 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ITSC 1305 - Introduction to PC Operating Systems
ITSC 1325 - Personal Computer Hardware
ITNW 1325 - Fundamentals of Networking Technologies
ITNW 2313 - Networking Hardware
ITSC 2339 - Personal Computer Help Desk Support

Second Semester - 15 SCH

ITNW 1351 - Fundamentals of Wireless LANs
ITNW 1354 - Implementing and Supporting Servers
ITNW 2305 - Network Administration
ITSC 1364 - Practicum - Computer and Information Sciences, General
ITSY 1342 - Information Technology Security

Marketable Skills

- Computer Skills
- Problem Solving
- Critical Thinking
- Technical Proficiency

Program Outcomes

- Ability to evaluate resources and make relevant recommendation for purchase or upgrade of a system
- Identify tools, diagnostic procedures and troubleshooting techniques for networks and personal computer components.

High School Endorsements

Business and Industry

Additional Education Opportunities

Students may continue their education through an AAS degree.

Expected Salary

Texas wage data: workers on average earn \$47,460; 10% of workers earn \$29,020 or less; 10% of workers earn \$77,490 or more.

Career Opportunities

Help Desk/Technical Support Specialist; Personal Computer Technician; Information Technology Support Specialist; Computer Support Specialist.



Computer Network Tech-A+

Certificate (42 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

ITNW 1325 - Fundamentals of Networking Technologies
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1325 - Personal Computer Hardware
ITSW 1304 - Introduction to Spreadsheets

Second Semester - 18 SCH

IMED 1316 - Web Design I
ITNW 1351 - Fundamentals of Wireless LANs
ITNW 2305 - Network Administration
ITSC 1321 - Intermediate PC Operating Systems
ITSY 1342 - Information Technology Security
ITSW 2334 - Advanced Spreadsheets

Third Semester - 12 SCH

ITNW 1354 - Implementing and Supporting Servers
ITNW 2313 - Networking Hardware
ITSC 1364 - Practicum - Computer and Information
Sciences, General
ITSC 2339 - Personal Computer Help Desk Support

Marketable Skills

- Provide Technical Support
- Monitor Computer System Performance
- Problem Solving
- Gather Technical Information
- Resolve Computer Software Problems

Program Outcomes

- Demonstrate techniques to design a secure network.
- Ability to evaluate resources and make relevant recommendation for purchase or upgrade of a system.
- Recognize the interaction of stand-alone and network devices, operating systems, and applications.
- Identify tools, diagnostic procedure and troubleshooting techniques for networks and personal computer components.

High School Endorsements

Business and Industry

Additional Education Opportunities

Students may continue their education through an AAS degree.

Expected Salary

Texas wage data: workers on average earn \$70,950; 10% of workers earn \$42,080 or less; 10% of workers earn \$123,910 or more.

Career Opportunities

Help Desk/Technical Support Specialist; Information Security Specialist; Network Technician; Information Technology Support Specialist; Computer Support Specialist; Network Infrastructure Support; Personal Computer Technician.



CISCO / C-Tech

Certificate (45 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

COSC 1301 - Introduction to Computing
ITCC 1314 - CCNA 1: Introduction to Networks
ITSC 1305 - Introduction to PC Operating Systems
ITSC 1325 - Personal Computer Hardware

Second Semester - 12 SCH

ITCC 1344 - CCNA 2: Switching, Routing, and Wireless Essentials
IMED 1316 - Web Design I
ITSC 1321 - Intermediate PC Operating Systems
ITNW 1351 - Fundamentals of Wireless LANs

Third Semester - 12 SCH

ITNW 2313 - Networking Hardware
ITSC 2339 - Personal Computer Help Desk Support
ITSW 1304 - Introduction to Spreadsheets
ITCC 2320 - CCNA 3: Enterprise Networking, Security, and Automation

Fourth Semester - 9 SCH

ITNW 2305 - Network Administration
ITSY 1342 - Information Technology Security
ITSW 2334 - Advanced Spreadsheets

Marketable Skills

- Computer skills
- Analyze project data
- Modify software programs to improve performance
- Apply statistical approaches to solve problems
- Assess database performance
- Analyze user needs and software requirements
- Confer on project status, proposals, or technical issues
- Plan installation or modification of systems

Program Outcomes

- Demonstrate techniques to design a secure network
- Ability to evaluate resources and make relevant recommendation for purchase or upgrade of a system.
- Recognize the interaction of stand-alone and network devices, operating systems, and applications.
- Identify tools, diagnostic procedure and troubleshooting techniques for networks and personal computer components.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$108,150; 10% of workers earn \$67,640 or less; 10% of workers earn \$123,910 or more.

Additional Education Opportunities

Students may continue their education through an AAS degree.

Career Opportunities

Help Desk/Technical Support Specialist; Personal Computer Technician; Network Administrator; Information Security Specialist; Network Technician; Network Infrastructure Support; Information Technology Support Specialist.



Cybersecurity

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
ITCC 1314 - CCNA 1: Introduction to Networks
ITSC 1305 - Introduction to PC Operating Systems
ITSY 1300 - Fundamentals of Information Security
ENGL 1301 - Composition I

Second Semester - 15 SCH

ITCC 1344 - CCNA 2: Switching, Routing, and Wireless Essentials
ITSY 1342 - Information Technology Security
ITNW 1354 - Implementing and Supporting Servers
ITNW 2305 - Network Administration
MATH 1332 - Contemporary Mathematics

Third Semester - 15 SCH

ITSY 2330 - Intrusion Detection
ITSY 2300 - Operating System Security
ITSY 2301 - Firewalls and Network Security
ITSC 1325 - Personal Computer Hardware
DRAM 1310 - Theater Appreciation

Fourth Semester - 15 SCH

ITSY 2343 - Computer System Forensics
ITSY 2342 - Incident Response & Handling
ITSY 2345 - Network Defense and Countermeasures
GAME 1301 - Computer Ethics
ECON 2302 - Principles of Microeconomics

Marketable Skills

- Interacting with Computers
- Gathering Information
- Identifying Objects, Actions, and Events
- Ethics
- Evaluating Information
- Analyzing Data or Information
- Identifying underlying principles, reasons, or facts
- Implement security measures
- Collaborate with others to resolve issues

Program Outcomes

- Ability to conduct risk and vulnerability assessments of existing and proposed networked systems.
- Demonstrate an understanding of cyber defense and attack methods.
- Show how ethical issues impact decision making in the cybersecurity area.
- Demonstrate techniques to design a secure network.
- Troubleshoot an information security system.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$110,680; 10% of workers earn \$67,660 or less; 10% of workers earn \$165,070 or more.

Additional Education Opportunities

Students may continue their education through a Bachelor of Arts in Applied Science degree, in addition to various industry certifications.

Career Opportunities

Information Security Analyst; Cybersecurity Engineer; Network Security Engineer; Vulnerability Analyst/Penetration Tester; Cybersecurity Consultant; Security Architect; Security Auditor; Security Specialist; Computer Forensics Analyst; Ethical Hacker



Cybersecurity

Certificate (48 SCH*)

*Semester Credit Hour

4/2022

First Semester - 12 SCH

COSC 1301 - Introduction to Computing
ITCC 1314 - CCNA 1: Introduction to Networks
ITSC 1305 - Introduction to PC Operating Systems
ITSY 1300 - Fundamentals of Information Security

Second Semester - 12 SCH

ITCC 1344 - CCNA 2: Switching, Routing, and Wireless Essentials
ITSY 1342 - Information Technology Security
ITNW 1354 - Implementing and Supporting Servers
ITNW 2305 - Network Administration

Third Semester - 12 SCH

ITSY 2330 - Intrusion Detection
ITSY 2300 - Operating System Security
ITSY 2301 - Firewalls and Network Security
ITSC 1325 - Personal Computer Hardware

Fourth Semester - 12 SCH

ITSY 2343 - Computer System Forensics
ITSY 2342 - Incident Response & Handling
ITSY 2345 - Network Defense and Countermeasures
GAME 1301 - Computer Ethics

Marketable Skills

- Interacting with Computers
- Gathering Information
- Identifying Objects, Actions, and Events
- Ethics
- Evaluating Information
- Analyzing Data or Information
- Identifying underlying principles, reasons, or facts
- Implement security measures
- Collaborate with others to resolve issues

Program Outcomes

- Ability to conduct risk and vulnerability assessments of existing and proposed networked systems.
- Demonstrate an understanding of cyber defense and attack methods.
- Show how ethical issues impact decision making in the cybersecurity area.
- Demonstrate techniques to design a secure network.
- Troubleshoot an information security system.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$110,680; 10% of workers earn \$67,660 or less; 10% of workers earn \$165,070 or more.

Additional Education Opportunities

Students may continue their education through a Bachelor of Arts in Applied Science degree, in addition to various industry certifications.

Career Opportunities

Information Security Analyst; Cybersecurity Engineer; Network Security Engineer; Vulnerability Analyst/Penetration Tester; Cybersecurity Consultant; Security Architect; Security Auditor; Security Specialist; Computer Forensics Analyst; Ethical Hacker



Welding Technology

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

PSYC 1300 - Learning Framework
MATH 1332 - Contemporary Mathematics
WLDG 1307 - Intro to Welding Using Multi-processes
WLDG 1313 - Intro to Blueprint Reading for Welders
WLDG 1428 - Intro to Shielded Metal Arc Welding

Second Semester - 15 SCH

COSC 1301 - Introduction to Computing
WLDG 1417 - Intro to Layout and Fabrication
WLDG 1457 - Intermediate Shielded Metal Arc Welding
WLDG 1435 - Intro to Pipe Welding

Third Semester - 15 SCH

ENGL 1301 - Composition I
WLDG 1434 - Introduction to Gas Tungsten Arc Welding
WLDG 1453 - Intermediate Layout and Fabrication
WLDG 2406 - Intermediate Pipe Welding

Fourth Semester - 14 SCH

DRAM 1310 - Introduction to Theater
WLDG 1327 - Welding Codes and Standards
WLDG 2443 - Advanced Shielded Metal Arc Welding
WLDG 2451 - Advanced Gas Tungsten Arc Welding

Marketable Skills

Math skills; time and materials management; ability to acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision-making; problem-solving; self-management; construction and industrial safety; oxy-fuel welding and cutting; power sources; electrode selection; shielded metal arc welding; gas metal arc welding and cutting; gas tungsten arc welding; flux-cored arc welding; blueprint reading; measurement; welding codes and standards; layout and fabrication; fillet welds; V-groove welds; plate welding; pipe welding; and 1G, 2G, 5G, 6G positions.

Program Outcomes

- Students earning the Structural Steel Welding certificate will demonstrate proficiency by taking the American Welding Society Certification Test (3G) on plate using SMAW welding process.
- Students earning the Pipe welding certificate will demonstrate proficiency by taking the American Society of Mechanical Engineers section IX test (6G) on 5" pipe using SMAW welding process.
- Students earning the Advanced Welding Shop Technology certificate will demonstrate proficiency by taking the American Society of Mechanical Engineers section IX test (6G) on 2" pipe using the GTAW welding process.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$36,210; 10% of workers earn \$27,030 or less; 10% of workers earn \$53,290 or more.

Additional Education Opportunities

Bachelor of Arts in Applied Science

Career Opportunities

Blueprint reading; layout, cutting and fitting parts; tack and production welding; finishing and material handling; welding fabricators; shop supervisors; estimators and shop owners; pipe welder; and structural steel welder.



Structural Steel Welding

Certificate (18 SCH*)

*Semester Credit Hour

4/2022

First Semester - 18 SCH

WLDG 1307 - Intro to Welding Using Multi-processes
WLDG 1313 - Intro to Blueprint Reading for Welders
WLDG 1417 - Intro to Layout and Fabrication
WLDG 1428 - Intro to Shielded Metal Arc Welding
WLDG 1457 - Intermediate Shielded Metal Arc Welding

Marketable Skills

Math skills; time and materials management; ability to acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision-making; problem-solving; self-management; construction and industrial safety; oxy-fuel welding and cutting; power sources; electrode selection; shielded metal arc welding; gas metal arc welding and cutting; gas tungsten arc welding; flux-cored arc welding; blueprint reading; measurement; welding codes and standards; layout and fabrication; fillet welds; V-groove welds; plate welding; pipe welding; and 1G, 2G, 5G, 6G positions.

High School Endorsements

Business and Industry

Expected Salary

Texas wage data: workers on average earn \$36,210; 10% of workers earn \$27,030 or less; 10% of workers earn \$53,290 or more.

Career Opportunities

Blueprint reading; layout, cutting and fitting parts; tack and production welding; finishing and material handling; welding fabricators; shop supervisors; estimators and shop owners; pipe welder; and structural steel welder.

Program Outcomes

- Students earning the Structural Steel Welding certificate will demonstrate proficiency by taking the American Welding Society Certification Test (3G) on plate using SMAW welding process.

Additional Education Opportunities

Associate of Arts in Applied Science; Bachelor of Arts in Applied Science



Pipe Welding

Certificate (19 SCH*)

*Semester Credit Hour

4/2022

First Semester - 19 SCH

WLDG 1327 - Welding Codes and Standards
WLDG 1434 - Intro to Gas Tungsten Arc Welding
WLDG 1435 - Introduction to Pipe Welding
WLDG 1453 - Intermediate Layout and Fabrication
WLDG 2406 - Intermediate Pipe Welding

Marketable Skills

Math skills; time and materials management; ability to acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision-making; problem-solving; self-management; construction and industrial safety; oxy-fuel welding and cutting; power sources; electrode selection; shielded metal arc welding; gas metal arc welding and cutting; gas tungsten arc welding; flux-cored arc welding; blueprint reading; measurement; welding codes and standards; layout and fabrication; fillet welds; V-groove welds; plate welding; pipe welding; and 1G, 2G, 5G, 6G positions.

Program Outcomes

- Students earning the Pipe welding certificate will demonstrate proficiency by taking the American Society of Mechanical Engineers section IX test (6G) on 5" pipe using SMAW welding process.

High School Endorsements

Business and Industry

Additional Education Opportunities

Associate of Arts in Applied Science; Bachelor of Arts in Applied Science

Expected Salary

Texas wage data: workers on average earn \$36,210; 10% of workers earn \$27,030 or less; 10% of workers earn \$53,290 or more.

Career Opportunities

Blueprint reading; layout, cutting and fitting parts; tack and production welding; finishing and material handling; welding fabricators; shop supervisors; estimators and shop owners; pipe welder; and structural steel welder.



Advanced Welding Shop Technology

Certificate (20 SCH*)

*Semester Credit Hour

4/2022

First Semester - 20 SCH

WLDG 2413 - Intermediate Welding Using Multi-processes

WLDG 2435 - Advanced Layout and Fabrication

WLDG 2443 - Advanced Shielded Metal Arc Welding

WLDG 2451 - Advanced Gas Tungsten Arc Welding

WLDG 2453 - Advanced Pipe Welding

Marketable Skills

Math skills; time and materials management; ability to acquire and evaluate information; interpret and communicate information; oral and written communications skills; computer skills; teamwork; cultural diversity; apply technology to work; creative thinking; decision-making; problem-solving; self-management; construction and industrial safety; oxy-fuel welding and cutting; power sources; electrode selection; shielded metal arc welding; gas metal arc welding and cutting; gas tungsten arc welding; flux-cored arc welding; blueprint reading; measurement; welding codes and standards; layout and fabrication; fillet welds; V-groove welds; plate welding; pipe welding; and 1G, 2G, 5G, 6G positions.

Program Outcomes

- Students earning the Advanced Welding Shop Technology certificate will demonstrate proficiency by taking the American Society of Mechanical Engineers section IX test (6G) on 2" pipe using the GTAW welding process.

High School Endorsements

Business and Industry

Additional Education Opportunities

Associate of Arts in Applied Science; Bachelor of Arts in Applied Science

Expected Salary

Texas wage data: workers on average earn \$36,210; 10% of workers earn \$27,030 or less; 10% of workers earn \$53,290 or more.

Career Opportunities

Blueprint reading; layout, cutting and fitting parts; tack and production welding; finishing and material handling; welding fabricators; shop supervisors; estimators and shop owners; pipe welder; and structural steel welder.



Allied Health

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

EDUC/PSYC 1300 - Learning Framework
BIOL 2401 - Anatomy & Physiology I
ENGL 1301 - Composition I
COSC 1301 - Introduction to Computing
PSYC 2314 - Lifespan Growth and Development

Second Semester - 16 SCH

BIOL 2402 - Anatomy & Physiology II
MATH 1342 - Statistical Methods
ENGL 1302 - Composition II
HIST 1301 - United States History I
PSYC 2301 - General Psychology

Third Semester - 15 SCH

HIST 1302 - United States History II
BIOL 1322 - Nutrition & Diet Therapy
GOVT 2305 - Federal Government
MUSI 1306 - Music Appreciation
SOC1 1301 - Introduction to Sociology

Fourth Semester - 13 SCH

ENGL 2331 - World Literature
BIOL 2420 - Microbiology for Non-Science Majors
GOVT 2306 - Texas Government
SPCH 1315 - Public Speaking

Marketable Skills

- Knowledge of micro/macromolecules as they relate to health and proper diet.
- Follow laboratory procedures safely and effectively.
- Use scientific reasoning to identify strengths/weaknesses and develop alternative solutions.
- Use computers and software to process and present data.
- Effective development, interpretation, and expression of ideas through written, oral, and visual communication.
- Work collaboratively with others and be an active listener.
- Lead when appropriate during laboratory or group projects.
- Knowledge base in cell biology, microbiology as related to human disease, and anatomy and physiology.

Program Outcomes

- Demonstrate knowledge of basic terminology and understanding of major biological concepts.
- Students will demonstrate critical thinking skills that allow them to see the intellectual connections between different disciplines.
- Demonstrate knowledge of the ethical challenges encountered by practitioners of different disciplines.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$32,840; 10% of workers earn \$24,800 or less; 10% of workers earn \$44,170 or more.

US wage data: workers on average earn \$35,850; 10% of workers earn \$26,930 or less; 10% of workers earn \$50,580 or more.

Additional Educational Opportunities

Bachelor of Science in Allied Health related programs.

Career Opportunities

This is a pre-health degree for pursuit of certificate/licensure and/or an associate degree in allied health related careers.

AS Minimum: LVN; RN; EMS; Medical Secretary; Health-Care/Lab Technician; Medical Biller/Coder; Surgical Technician; Radiology Technician; Medical Sonographer; Allied Health Care Administrative Assistant; Phlebotomy Technician. **BS Minimum:** Case Managers; Radiation Therapist; BSN; Dietician; Respiratory Therapists. **MS Minimum:** Nurse Practitioner; Physician Assistant; Nurse Anesthetists.



Emergency Medical Services

AAS (60 SCH*)

*Semester Credit Hour

4/2022

Prerequisites - 7 SCH: EMSP 1501 - Emergency Medical Technician, EMSP 1160 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic), & PSYC 1100 - Learning Framework.

First Semester - 15 SCH

BIOL 2401 - Anatomy & Physiology I
EMSP 1161 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)
EMSP 1356 - Patient Assessment and Airway Management
EMSP 1438 - Introduction to Advanced Practice
EMSP 2306 - Emergency Pharmacology

Second Semester - 15 SCH

EMSP 1162 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)
EMSP 1355 - Trauma Management
EMSP 2434 - Medical Emergencies
EMSP 2444 - Cardiology
MUSI 1306 - Music Appreciation

Third Semester - 10 SCH

EMSP 2160 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)
EMSP 2143 - Assessment Based Management
EMSP 2266 - Practicum (or Field Experience- Emergency Medical Technician / Technician (EMT Paramedic)
EMSP 2305 - EMS Operations
EMSP 2330 - Special Populations

Fourth Semester - 13 SCH

PSYC 2314 - Lifespan Growth & Development
ENGL 1301 - Composition I
COSC 1301 - Introduction to Computing
BIOL 2402 - Anatomy & Physiology II

Marketable Skills

- Attitude for success
- Communication techniques
- Critical thinking
- Computer application
- Leadership / Management Qualities.

Program Outcomes

- Demonstrate competency and the knowledge to recognize and care for a medical emergency.
- Demonstrate competency and the knowledge to recognize and care for a trauma emergency.
- Demonstrate competency in endotracheal intubation (ET).
- Demonstrate competency of intravenous catheterization (IV).
- Demonstrate competency of medication administration.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$35,940; 10% of workers earn \$21,730 or less; 10% of workers earn \$55,260 or more.

Additional Educational Opportunities

Bachelor of Arts in Applied Science

Career Opportunities

Fire Department; Private and Municipal EMS Services; Hospital Emergency Departments; Industrial Safety; and Flight Services.



EMT Basic

Certificate (16 SCH*)

*Semester Credit Hour

4/2022

First Semester - 10 SCH

PSYC 1100 - Learning Framework
HITT 1305 - Medical Terminology I
MDCA 1309 - Anatomy & Physiology for Medical Assistants
HPRS 2300 - Pharmacology for Health Professions

Second Semester - 6 SCH

EMSP 1501 - Emergency Medical Technician
EMSP 1160 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)

Marketable Skills

- Inform medical professionals regarding patient conditions and care.
- Treat medical emergencies.
- Analyze patient data to determine patient needs or treatment goals.
- Collaborate with healthcare professionals to plan or provide treatment.
- Drive vehicles to transport individuals or equipment.

Program Outcomes

- Demonstrate competency and the knowledge to recognize and care for a medical emergency.
- Demonstrate competency and the knowledge to recognize and care for a trauma emergency.
- Demonstrate competency in endotracheal intubation (ET).
- Demonstrate competency of intravenous catheterization (IV).
- Demonstrate competency of medication administration.

High School Endorsements

Public Service

Additional Educational Opportunities

Students may pursue an Associate of Applied Science.

Expected Salary

Texas wage data: workers on average earn \$35,940; 10% of workers earn \$21,730 or less; 10% of workers earn \$55,260 or more.

Career Opportunities

Fire Department; Private and Municipal EMS Services; Hospital Emergency Departments; Industrial Safety; and Flight Services.



EMT Paramedic

Certificate (42 SCH*)

*Semester Credit Hour

4/2022

Prerequisites - 6 SCH

EMSP 1501 - Emergency Medical Technician & EMSP 1160 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)

First Semester - 14 SCH

EMSP 1161 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)
 EMSP 1356 - Patient Assessment and Airway Management
 EMSP 1438 - Introduction to Advanced Practice
 EMSP 2306 - Emergency Pharmacology
 MDCA 1309 - Anatomy & Physiology for Medical Assistants

Second Semester - 12 SCH

EMSP 1162 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)
 EMSP 1355 - Trauma Management
 EMSP 2434 - Medical Emergencies
 EMSP 2444 - Cardiology

Third Semester - 10 SCH

EMSP 2160 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)
 EMSP 2143 - Assessment Based Management
 EMSP 2266 - Practicum - Emergency Medical Technician / Technician (EMT Paramedic)
 EMSP 2305 - EMS Operations
 EMSP 2330 - Special Populations

Marketable Skills

- Inform medical professionals regarding patient conditions/care
- Treat medical emergencies
- Analyze patient data to determine patient needs/treatment
- Collaborate with healthcare professionals to provide treatment
- Drive vehicles to transport individuals or equipment

Program Outcomes

- Demonstrate competency and the knowledge to recognize and care for a medical emergency.
- Demonstrate competency and the knowledge to recognize and care for a trauma emergency.
- Demonstrate competency in endotracheal intubation (ET).
- Demonstrate competency of intravenous catheterization (IV).
- Demonstrate competency of medication administration.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$35,940; 10% of workers earn \$21,730 or less; 10% of workers earn \$55,260 or more.

Additional Educational Opportunities

Students may pursue an Associate of Applied Science.

Career Opportunities

Fire Department; Private and Municipal EMS Services; Hospital Emergency Departments; Industrial Safety; and Flight Services.



Enhanced Nurse Aide - Certificate I

Certificate (16 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

HITT 1305 - Medical Terminology I

MDCA 1309 - Anatomy & Physiology for Medical Assistants

NURA 1301 - Nurse Aide for Health Care

NURA 1260 - Clinical - Nursing Assistant/Aide and Patient Care Assistant/Aide

GERS 1301 - Introduction to Gerontology

HPRS 1202 - Wellness and Health Promotion

Marketable Skills

- Assisting and Caring for Others
- Communication techniques
- Documenting/Recording Information

Program Outcomes

- Demonstrate the competencies to successfully complete the duties and requirements of a Certified Nurse Aide.
- Demonstrate the competencies to perform the duties of a phlebotomist.
- Demonstrate the competencies to successfully perform as an Emergency Care Attendant.
- Communicate the legal requirements of managing a long-term care facility.
- Communicate appropriate medical terminology in English and Spanish.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$28,240; 10% of workers earn \$21,600 or less; 10% of workers earn \$38,920 or more.

Additional Educational Opportunities

Students may pursue a vocational nursing certificate.

Career Opportunities

Hospitals; Clinics; Long-term care facilities; Home health agencies.



Enhanced Nurse Aide - Certificate II

Certificate (25 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

HITT 1305 - Medical Terminology I
MDCA 1309 - Anatomy & Physiology for Medical Assistants
NURA 1301 - Nurse Aide for Health Care
NURA 1260 - Clinical - Nursing Assistant/Aide and Patient Care Assistant/Aide
GERS 1301 - Introduction to Gerontology
HPRS 1202 - Wellness and Health Promotion

Second Semester - 9 SCH

PLAB 1223 - Phlebotomy
PLAB 1260 - Clinical - Phlebotomy/Phlebotomist
HPRS 2300 - Pharmacology for Health Professions
MDCA 1210 - Medical Assistant Interpersonal and Communication Skills

Marketable Skills

- Assisting and Caring for Others
- Communication techniques
- Documenting/Recording Information

Program Outcomes

- Demonstrate the competencies to successfully complete the duties and requirements of a Certified Nurse Aide.
- Demonstrate the competencies to perform the duties of a phlebotomist.
- Demonstrate the competencies to successfully perform as an Emergency Care Attendant.
- Communicate the legal requirements of managing a long-term care facility.
- Communicate appropriate medical terminology in English and Spanish.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$28,240; 10% of workers earn \$21,600 or less; 10% of workers earn \$38,920 or more.

Additional Educational Opportunities

Students may pursue a vocational nursing certificate.

Career Opportunities

Hospitals; Clinics; Long-term care facilities; Home health agencies.



Enhanced Nurse Aide - Certificate III

Certificate (30 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

HITT 1305 - Medical Terminology I
MDCA 1309 - Anatomy & Physiology for Medical Assistants
NURA 1301 - Nurse Aide for Health Care
NURA 1260 - Clinical - Nursing Assistant/Aide and Patient Care Assistant/Aide
GERS 1301 - Introduction to Gerontology
HPRS 1202 - Wellness and Health Promotion

Second Semester - 14 SCH

PLAB 1223 - Phlebotomy
PLAB 1260 - Clinical - Phlebotomy/Phlebotomist
HPRS 2300 - Pharmacology for Health Professions
MDCA 1210 - Medical Assistant Interpersonal and Communication Skills
NURA 1391 - Special Topics in Nursing Assistant/Aide
NURA 1261 - Clinical - Nursing Assistant/Aide and Patient Care Assistant/Aide

Marketable Skills

- Assisting and Caring for Others
- Communication techniques
- Documenting/Recording Information

Program Outcomes

- Demonstrate the competencies to successfully complete the duties and requirements of a Certified Nurse Aide.
- Demonstrate the competencies to perform the duties of a phlebotomist.
- Demonstrate the competencies to successfully perform as an Emergency Care Attendant.
- Communicate the legal requirements of managing a long-term care facility.
- Communicate appropriate medical terminology in English and Spanish.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$28,240; 10% of workers earn \$21,600 or less; 10% of workers earn \$38,920 or more.

Additional Educational Opportunities

Students may pursue a vocational nursing certificate.

Career Opportunities

Hospitals; Clinics; Long-term care facilities; Home health agencies.



LVN to ADN Program

AAS (60 SCH*)

*Semester Credit Hour

4/2022

Prerequisites- 20 SCH

BIOL 1322 - Nutrition & Diet Therapy
BIOL 2401 - Anatomy & Physiology I
BIOL 2402 - Anatomy & Physiology II
PSYC 2301 - General Psychology
PSYC 2314 - Lifespan Growth & Development
ENGL 1301 - Composition I

Must hold a current unencumbered LVN or LPN license.

First Semester - 9 SCH*

RNSG 1118 - Transition to Professional Nursing Competencies
RNSG 1126 - Professional Nursing Concepts II
RNSG 1324 - Concept-Based Transition to Professional Nursing
BIOL 2420 - Microbiology for Non-Science Majors

* Upon successful completion of the first semester RNSG courses, seven credit hours will be awarded for previous LVN experience.

Second Semester - 12 SCH

RNSG 1538 - Health Care Concepts III
RNSG 1137 - Professional Nursing Concepts III
RNSG 2363 - Clinical - Registered Nursing/Registered Nurse
SOCI 1301 - Introduction to Sociology

Third Semester - 12 SCH

RNSG 2539 - Health Care Concepts IV
RNSG 2138 - Professional Nursing Concepts IV
RNSG 2360 - Clinical - Registered Nursing/Registered Nurse
MUSI 1306 - Music Appreciation

Marketable Skills

- Attitude for Success
- Communication Techniques
- Service Orientation
- Active Listening
- Care Coordination
- Critical Thinking
- Informatics and Medical Software
- Leadership/Management Qualities

Program Outcomes

- Use clinical reasoning and knowledge based on the nursing program of study, evidence-based practice outcomes, and research-based policies and procedures as the basis for decision-making and comprehensive, safe patient-centered care.
- Demonstrate skills in using patient care technologies and information systems that support safe nursing practice.
- Promote safety and quality improvement as an advocate and manager of nursing care.
- Coordinate, collaborate and communicate with diverse patients, families, and the interdisciplinary health care team to plan, deliver, and evaluate care that promotes quality of life.
- Adhere to standards of practice within legal, ethical, and regulatory frameworks of the professional nurse.
- Demonstrate knowledge of delegation, management, and leadership skills.
- Demonstrate behavior that reflects the values and ethics of the nursing profession, including a spirit of inquiry.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn 75,320; 10% of workers earn \$54,800 or less; 10% of workers earn \$103,040 or more.

Additional Educational Opportunities

Students may pursue a Bachelor of Science in Nursing (BSN).

Career Opportunities

Hospitals - Registered Nurse, Emergency Department, Surgery, Oncology, Intensive Care, Labor and Delivery, Case Management, Home Health Agencies, Public Health, Clinics, Schools, Long-Term Care Facilities, Travel-Agency Nursing, Telehealth, Insurance Companies, Industry, Management Positions, Flight Nurse.



Medical Office Management & Billing

Certificate (36 SCH*)

*Semester Credit Hour

4/2022

Academic Support Courses - 12 SCH

COSC 1301 - Introduction to Computing
HITT 1305 - Medical Terminology I
HPRS 2300 - Pharmacology for Health Professions
MDCA 1309 - Anatomy and Physiology for Medical Assistants

First Semester - 12 SCH (Summer)

HITT 2340 - Advanced Medical Billing and Reimbursement
MDCA 1343 - Medical Insurance
POFM 1300 - Basic Medical Coding
POFM 1302 - Medical Software Applications

Second Semester - 12 SCH

HITT 2335 - Coding and Reimbursement Methodologies
ITSW 1304 - Introduction to Spreadsheets
POFT 1364 - Practicum - Administrative Assistant & Secretarial Science, General
POFT 2312 - Business Correspondence & Communication

Marketable Skills

- Critical Thinking
- Communication
- Teamwork
- Personal Responsibility
- Social Responsibility
- Computer Skills
- Organizational Skills
- Customer Service
- Experience Through Volunteer Medical Office Work

Program Outcomes

- Medical Terminology
- Basic Clinic Operating Procedures
- Medical Office Billing Practices
- Electronic Health Records
- Good working knowledge of anatomy and physiology
- General Knowledge of ICD-10 and & CPT Coding
- Submission of claims to insurance carriers
- Answering inquiries on a timely basis
- Microsoft Office Word, Excel, PowerPoint

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$39,990; 10% of workers earn \$26,790 or less; 10% of workers earn \$67,570 or more.

Additional Educational Opportunities

Associate Degree, Bachelor or Master Degree in Business Administration, Public Health, or Health Administration

Career Opportunities

Medical Secretary; Healthcare Technician; Medical Biller/Coder; Medical Clinic Receptionist; Front Office Assistant in a Physician's Office; Unit Clerk in a Health Care Facility; Allied Health Care Administrative Assistant; Patient Registration.



Medical Records Coding

Certificate (34 SCH*)

*Semester Credit Hour

4/2022

Academic Support Courses - 12 SCH

HITT 1305 - Medical Terminology I
HPRS 2301 - Pathophysiology
ITSC 1309 - Integrated Software Applications I
MDCA 1309 - Anatomy and Physiology for Medical Assistants

First Semester - 6 SCH (Summer)

HITT 1301 - Health Data Content and Structure
HPRS 2300 - Pharmacology for Health Professions

Second Semester - 11 SCH

HITT 1345 - Health Care Delivery Systems
HITT 1441 - Coding and Classification Systems
HITT 1442 - Ambulatory Coding

Third Semester - 5 SCH

HITT 1266 - Practicum - Health Information/Medical Records Technology/Technician
HITT 2335 - Coding & Reimbursement Methodologies

Marketable Skills

- Attitude for Success
- Communication Techniques
- Critical Thinking
- Computer Application
- Leadership/Management Qualities

Program Outcomes

- Analyze health records for documentation that reflects the correct selection of the principal diagnosis.
- Differentiate between prospective and retrospective payment systems.
- Apply all necessary codes to their full level of specificity for patient encounters.
- Apply the appropriate code set or classification system to the given patient encounter.
- Understand HIPAA in regards to privacy and confidentiality.
- Differentiate between outpatient and inpatient records.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$39,990; 10% of workers earn \$26,790 or less; 10% of workers earn \$67,570 or more.

Additional Educational Opportunities

May pursue an Associate of Science in Health Information Management.

Career Opportunities

Physician Offices; Hospitals; Clinics; Billing Companies; Remote Work from Home; Coder; Health Information Clerk; Health Information Specialist; Health Information Technician; Medical Records Clerk; Medical Records Coordinator; Medical Records Technician; Reimbursement Specialist.



Radiology Technology

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 14 SCH (Spring)

BIOL 2401 - Anatomy & Physiology I
RADR 1201 - Introduction to Radiography
**RADR 1266 - Practicum - Radiologic Technology/
Science - Radiographer**
RADR 1303 - Patient Care
RADR 1311 - Basic Radiographic Procedures

Second Semester - 11 SCH (Summer)

BIOL 2402 - Anatomy & Physiology II
RADR 1213 - Principles of Radiographic Imaging I
**RADR 1267 - Practicum - Radiologic Technology/
Science - Radiographer**
RADR 2301 - Intermediate Radiographic Procedures

Third Semester - 13 SCH

MUSI 1306 - Music Appreciation
PSYC 2314 - Lifespan Growth and Development
RADR 2209 - Radiographic Imaging Equipment
**RADR 2266 - Practicum - Radiologic Technology/
Science - Radiographer**
RADR 2331 - Advanced Radiographic Procedures

Fourth Semester - 13 SCH

ENGL 1301 - Composition I
MATH 1314 - College Algebra
RADR 2205 - Principles of Radiographic Imaging II
RADR 2213 - Radiation Biology and Protection
**RADR 2366 - Practicum - Radiologic Technology/
Science - Radiographer**

Fifth Semester - 4 SCH

RADR 2233 - Advanced Medical Imaging
RADR 2267 - Practicum

Sixth Semester - 5 SCH

RADR 2235 - Radiologic Technology Seminar
RADR 2367 - Practicum

Marketable Skills

- Review and evaluate developed x-rays, video tape, or computer-generated information to determine if images are satisfactory for diagnostic purposes.
- Operate or oversee operation of radiologic or magnetic imaging equipment to produce images of the body for diagnostic purposes.
- Position patient on examining table and set up and adjust equipment to obtain optimum view of specific body area as requested by physician.
- Process exposed radiographs using film processors or computer generated methods.
- Use radiation safety measures and protection devices to comply with government regulations and to ensure safety of patients and staff.

Program Outcomes

- Demonstrate proper patient positioning and technical factors required for digital imaging.
- Demonstrate radiation protection.
- Demonstrate effective communication skills with patients and members of the healthcare team.
- Demonstrate professionalism in clinical situations.
- Demonstrate exemplary customer service.
- Demonstrate critical thinking in trauma situations.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$59,860; 10% of workers earn \$40,530 or less; 10% of workers earn \$81,470 or more.

Additional Educational Opportunities

Students may pursue a Bachelor's Degree in Radiology.

Career Opportunities

Hospitals; Home Health; Clinics; Mobile Radiology; Physician Offices.



Surgical Technology

AAS (60 SCH*)

*Semester Credit Hour

2/2022

First Semester - 17 SCH

BIOL 2401 - Anatomy & Physiology I
BIOL 2402 - Anatomy & Physiology II
HITT 1305 - Medical Terminology I
HPRS 2300 - Pharmacology for Health Professions
HPRS 2301 - Pathophysiology

Second Semester - 15 SCH

BIOL 2420 - Microbiology for Non-Science Majors
SRGT 1405 - Introduction to Surgical Technology
SRGT 1409 - Fundamentals of Perioperative
Concepts & Techniques
ENGL 1301 - Composition I

Third Semester - 14 SCH

SRGT 1441 - Surgical Procedures I
SRGT 2461 - Clinical - Surgical Technology/
Technologist
MATH 1314 - College Algebra
SOC1 1301 - Introduction to Sociology

Fourth Semester - 14 SCH

SRGT 1442 - Surgical Procedures II
SRGT 2462 - Clinical - Surgical Technology/
Technologist
PSYC 2314 - Lifespan Growth and Development
MUSI 1306 - Music Appreciation

Marketable Skills

Working knowledge of anatomy relative to surgical intervention; Understanding of medical language and effective communication; Knowledge of care/use of surgical instrumentation, equipment and supplies; Maintaining sterile operative fields, aseptic patient care and practices; Maintaining medical supply inventory; Prepare and position patients for surgical treatment or examination; Assist healthcare practitioners; Critical thinking, ability to problem-solve and prioritize tasks; Ability to determine compliance with policies and standards.

Program Outcomes

- Competent entry-level Surgical Technologist:
 - » Instrumentation, Equipment and Supplies
 - » Principles of Asepsis
 - » Multi-specialty Surgical Intervention Techniques
- Standards of Professional Practice
- Certification Ready - National Board Exam, CST
- Transferrable Skills and Course Credit: AS, BS, etc.

High School Endorsements

Public Service

Additional Education Opportunities

AD Surgical Technologist or First Assistant
BAAS Health Services Administration
BS Surgical Assistant, MS Surgical Physician Assistant

Expected Salary

Texas wage data: (Surgical Technologist) workers on average earn \$49,120 (higher nationally); 10% of workers earn \$33,430 or less; 10% of workers earn \$67,340 or more; (Surgical Assistant) - upper tier earns \$88,000.

Career Opportunities

Surgical Technician/Specialist; Surgery Scheduler; Surgical First-Assistant; Veterinary Assistant; Anesthesia Technician; Sterile Processing Technician; Endoscopy Technician; Materials Management/Inventory Control; Labor and Delivery Technician; Medical Services and Equipment Salesperson; Phlebotomy Technician.



Vocational Nursing

Certificate (51 SCH*)

*Semester Credit Hour

4/2022

Prerequisites - 14 SCH

PSYC 2314 - Lifespan Growth and Development
BIOL 2401 - Anatomy & Physiology I
BIOL 2402 - Anatomy & Physiology II
BIOL 1322 - Nutrition & Diet Therapy

First Semester - 12 SCH

VNSG 1400 - Nursing in Health and Illness I
VNSG 1122 - Vocational Nursing Concepts
VNSG 1323 - Basic Nursing Skills
VNSG 1136 - Mental Health
VNSG 1231 - Pharmacology
VNSG 1160 - Clinical - Licensed Practical/
Vocational Nurse Training

Second Semester - 13 SCH

VNSG 1409 - Nursing in Health & Illness II
VNSG 1230 - Maternal - Neonatal Nursing
VNSG 1334 - Pediatrics
VNSG 1460 - Clinical - Licensed Practical/
Vocational Nurse Training

Third Semester - 12 SCH

VNSG 2410 - Nursing in Health & Illness III
VNSG 1226 - Gerontology
VNSG 1219 - Leadership and Professional
Development
VNSG 2460 - Clinical - Licensed Practical/
Vocational Nurse Training

Marketable Skills

- Service Orientation
- Active listening
- Coordination
- Attitude for Success
- Critical Thinking
- Medical Software
- Leadership/management Qualities

Program Outcomes

- Apply clinical decision-making skills utilizing the nursing process when formulating clinical judgments.
- Manage safe, competent, holistic care for a diverse group of patients within the scope of the vocational nurse.
- Communicate therapeutically and effectively with individuals, significant support persons, and members of the multidisciplinary healthcare team.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$47,760; 10% of workers earn \$35,670 or less; 10% of workers earn \$63,140 or more.

Additional Educational Opportunities

Students may pursue an Associate of Applied Science in Nursing.

Career Opportunities

Physician Offices, Home Health Agencies, Hospitals, Clinics, Schools, Long-Term Care Facilities, Private Duty Nurse.



Multidisciplinary Studies

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1342 - Elementary Statistical Methods

Second Semester - 15 SCH

DRAM 1310 - Introduction to Theater
ENGL 1302 - Composition II
HIST 1302 - United States History II
PSYC 2301 - General Psychology
SPCH 1315 - Public Speaking

Third Semester - 15 SCH

BIOL 1322 - Nutrition & Diet Therapy
GOVT 2305 - Federal Government
HIST 2311 - Western Civilization
Six hours of electives

Fourth Semester - 15 SCH

GOVT 2306 - Texas Government
PHYS 1303 - Stars and Galaxies
SOC 1301 - Introduction to Sociology
Six hours of electives

Marketable Skills

Critical Thinking Skills: Creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information, using technology as appropriate.

Communication Skills: Effective development, interpretation, and expression of ideas through written, oral, and visual communication.

Empirical and Quantitative Skills: Manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Teamwork: Ability to be flexible and to consider different points of view and to work effectively with others, taking the initiative when appropriate, to support a shared purpose or goal.

Social Responsibility: Intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities.

Personal Responsibility: A strong work ethic and the ability to connect choices, actions, and consequences to ethical decision-making.

Program Outcomes

- Demonstrate critical thinking skills which indicate that the student can see the intellectual connections between different disciplinary fields.
- Demonstrate knowledge of the ethical challenges encountered by practitioners of different intellectual disciplines.
- Demonstrate knowledge of civic responsibility and the characteristics of regional, national, and global communities.

Transfer Path Requirements

- Students should refer to the catalog of the institution to which they plan to transfer for degree requirements.
- For Texas A&M University - Commerce and Texas A&M University - Texarkana:
- A student completing the Paris Junior College core curriculum is considered Core complete at Texas A&M Commerce and Texarkana.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce or Texarkana. Another 60 or more must be completed at TAMU-Commerce or Texarkana.
- At TAMU-Commerce, a Bachelor of Arts/Bachelor of Science is offered in Interdisciplinary Studies (Elementary Education).
- TAMU-Texarkana offers a Bachelor of General Studies degree.

High School Endorsements

Multidisciplinary Studies

Career Opportunities

Journalist; Script Writer; Advertising; Tour Guide/Planner; Sales; Foreign Correspondent; Archivist; Human Resources Representative; Curator; Import/Export Representative; Public Relations; Public Policy Analyst.

* Depends on how students tailor their curricula, as different fields can be combined to prepare the student for various careers after completing a bachelaureate degree.



Biology

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 17 SCH

ENGL 1301 - Composition I
BIOL 1406 - Biology for Science Majors I
CHEM 1411 - General Chemistry I
EDUC/PSYC 1300 - Learning Framework
MATH 1314 - College Algebra

Second Semester - 14 SCH

ENGL 1302 - Composition II
BIOL 1407 - Biology for Science Majors II
CHEM 1412 - General Chemistry II
MATH 2312 - Pre-Calculus

Third Semester - 16 SCH

HIST 1301 - United States History I
CHEM 2423 - Organic Chemistry I
MUSI 1306 - Music Appreciation
GOVT 2305 - Federal Government
PSYC 2314 - Lifespan Growth & Development

Fourth Semester - 13 SCH

HIST 1302 - United States History II
CHEM 2425 - Organic Chemistry II
GOVT 2306 - Texas Government
HIST 2321 - World Civilization I

Marketable Skills

- Utilize the scientific method to solve problems.
- Collect, organize/analyze data and effectively manage time.
- Interpret results to write reports and summaries of findings.
- Use scientific reasoning to identify strengths/weaknesses and develop alternative solutions to problems.
- Use computers and software to process and present data.
- Effective development, interpretation, and expression of ideas through written, oral, and visual communication.
- Manipulation and analysis of a variety of mathematical data.
- Work collaboratively with others and be an active listener.
- Lead when appropriate during laboratory or group projects.
- Knowledge base in molecular, cellular, evolutionary, and organismal/systems biology.
- Utilize proper laboratory equipment safely and efficiently.
- Follow laboratory protocols effectively.

Program Outcomes

- Demonstrate an understanding of the nature of science and the scientific method as related to biology.
- Demonstrate an understanding of biological concepts related to cell, molecular, organismal, and evolutionary biology.
- Use appropriate biological laboratory techniques and equipment safely and proficiently.

Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-68 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Biology major, eight advanced courses are required by TAMU-Commerce: BSC 303 (Cell Biology) plus seven courses in evolution/ecology, physiology, and genetics.
- Required support courses include two in college physics, calculus 1, and MATH 453 (Essential Statistics).

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$52,500; 10% of workers earn \$28,700 or less; 10% of workers earn \$76,880 or more.

US wage data: workers on average earn \$46,340; 10% of workers earn \$30,440 or less; 10% of workers earn \$74,600 or more.

Career Opportunities

BS Minimum: Biochemist; Microbiologist/Epidemiologist; Wildlife Biologist; Zoologist; Molecular and Cytogenetic Technology; Biological or Pharmaceutical Sales Representative; Histotechnologist; Clinical Laboratory Scientist; Cell Biologist; Secondary School Teacher; Scientific Products Specialist; Botany/Horticulture; Public Health and Safety Specialist. **MS Minimum:** Virologist; Dentist; Veterinarian; Nurse Practitioner; Physician's Assistant; Genetic Counselor; Medical Doctor; Life Science Research; Pharmacist; Biological Science Professor; Nutritionist/Dietician.



Chemistry

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ENGL 1301 - Composition I
MATH 2413 - Calculus I
HIST 1301 - United States History I
EDUC/PSYC 1100 - Learning Framework
CHEM 1411 - General Chemistry I

Second Semester - 17 SCH

ENGL 1302 - Composition II
MATH 2414 - Calculus II
HIST 1302 - United States History II
ARTS 1301 - Art Appreciation
CHEM 1412 - General Chemistry II

Third Semester - 14 SCH

CHEM 2423 - Organic Chemistry I
ECON 2301 - Principles of Macroeconomics
GOVT 2305 - Federal Government
PHYS 2425 - University Physics I

Fourth Semester - 14 SCH

CHEM 2425 - Organic Chemistry II
HIST 2321 - World Civilization I
GOVT 2306 - Texas Government
PHYS 2426 - University Physics II

Marketable Skills

- Knowledge of the chemical composition, structure, and properties of a substance to understand the uses of chemicals, their interactions, their danger signs, and proper disposal methods.
- Utilize proper laboratory equipment safely and efficiently.
- Follow laboratory protocols effectively.
- Apply laboratory experience with advanced testing techniques and equipment such as physical and chemical separation, spectroscopy, probeware, and purification of chemical compounds by distillation, extraction, chromatography, and recrystallization.
- Use scientific rules and methods to solve problems with integrated technology and use logic and reasoning to identify the strengths and weaknesses of alternative solutions.
- Effective development, interpretation, and expression of ideas through written, oral, and visual communication.
- Manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

Program Outcomes

- Demonstrate mastery of the processes of science, the scientific method and established scientific knowledge.
- Demonstrate knowledge of basic terminology and understanding of major physical science concepts.
- Use appropriate laboratory techniques and equipment safely and proficiently.

Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Chemistry major, eight advanced courses are required by TAMU-Commerce: CHEM 351 (Physical Chemistry) plus seven courses in quantitative, biochemistry, and inorganics.
- Required support courses include two in college physics, and Calculus 3.

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$58,640; 10% of workers earn \$32,960 or less; 10% of workers earn \$96,060 or more.

US wage data: workers on average earn \$49,820; 10% of workers earn \$31,720 or less; 10% of workers earn \$81,260 or more.

Career Opportunities

BS Minimum: Chemists and Materials Scientists; Chemical Engineers; Biochemists; Biophysicists; Physical Scientists (all other); Chemistry Teachers (postsecondary); Medical and Clinical Laboratory Technologists; Secondary School Teachers; Nuclear Medicine Technologists; Pharmaceutical Sales Representatives; Public Health and Safety Specialists. **MS Minimum:** Pharmacists; Family and General Practitioners; Veterinarians; Anesthesiologists; Dentists; Nurse Anesthetists; Physician Assistants.



Computer Science

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
EDUC/PSYC 1300 - Learning Framework
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1314 - College Algebra

Second Semester - 15 SCH

DRAM 1310 - Introduction to Theater
ENGL 1302 - Composition II
HIST 1302 - United States History II
MATH 2312 - Pre-Calculus Math
SPCH 1321 - Business & Professional Communication

Third Semester - 17 SCH

COSC 1336 - Programming Fundamentals I
MATH 2413 - Calculus I
ECON 2302 - Principles of Microeconomics
GOVT 2305 - Federal Government
PHYS 2425 - University Physics I

Fourth Semester - 13 SCH

COSC 1337 - Programming Fundamentals II
COMM 1307 - Introduction to Mass Communications
GOVT 2306 - Texas Government
PHYS 2426 - University Physics II

Marketable Skills

Coordinate software or hardware installation; Monitor computer system performance to ensure proper operation; Test software performance; Troubleshoot issues with computer applications or systems; Modify software programs to improve performance; Test, maintain, and monitor computer programs and systems, including coordinating the installation of computer programs and systems; Troubleshoot program and system malfunctions to restore normal functions; Analyze business problems; Interact with computers; Process information; Communicate with supervisors, peers, or subordinates; Analyze data or information.

Program Outcomes

- Analyze a problem definition to identify inputs, processes, and outputs required to present a viable solution.
- Utilize industry standard application software to produce personal, business, and academic reports and presentations.
- Demonstrate knowledge of computer Industry terminology and jargon.
- Recognize the interaction of stand-alone and network devices, operating systems, and applications.

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$97,240; 10% of workers earn \$58,140 or less; 10% of workers earn \$162,110.

Additional Education Opportunities

Students should consider a BS and MS in Computer Information Systems, Computer Science, or Management Information Systems.

Career Opportunities

Programming; Database Administrator; Systems Development/Analysis; Computer Support Specialist; Software Development; Web Developer; Computer Engineer.



Engineering

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 17 SCH

ENGL 1301 - Composition I
MATH 2413 - Calculus I
HIST 1301 - United States History I
CHEM 1411 - General Chemistry I
EDUC/PSYC 1300 - Learning Framework

Second Semester - 16 SCH

ENGL 1302 - Composition II
MUSI 1306 - Music Appreciation
HIST 1302 - United States History II
MATH 2414 - Calculus II
COSC 1336 - Programming Fundamentals I

Third Semester - 14 SCH

MATH 2415 - Calculus III
ECON 2301 - Principles of Macroeconomics
GOVT 2305 - Federal Government
PHYS 2425 - University Physics I

Fourth Semester - 13 SCH

MATH 2320 - Differential Equations
HIST 2321 - World Civilization I
GOVT 2306 - Texas Government
PHYS 2426 - University Physics II

Marketable Skills

- Knowledge of the practical application of engineering and science.
- Knowledge of raw materials, production processes, quality control.
- Knowledge of machines and tools, including their designs, uses, repair, and maintenance.
- Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, and models.
- Knowledge of algebra, geometry, calculus, statistics, and their applications.
- Knowledge of circuit boards, processors, chips, electronic equipment, electrical systems, and computer hardware and software, including applications and programming.
- Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub-atomic structures and processes.

Program Outcomes

- Demonstrate mastery of the processes of science, the scientific method and established scientific knowledge.
- Demonstrate knowledge of basic terminology and understanding of major physical science concepts.
- Use appropriate laboratory techniques and equipment safely and proficiently.

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$96,300; 10% of workers earn \$59,410 or less; 10% of workers earn \$161,080 or more.
US wage data: workers on average earn \$88,950; 10% of workers earn \$57,950 or less; 10% of workers earn \$136,930 or more.

Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Engineering major, several advanced courses are required by TAMU-Commerce: ENGR 210 (Engineering Mechanics) plus courses in statistics, management, computing, and systems engineering. Many courses will be specific to the engineering track chosen.
- Required support courses include differential equations, linear algebra and calculus 3.

Career Opportunities

BS Minimum: Aerospace Engineers; Industrial Engineers (including health and safety); Agricultural Engineers; Marine Engineers; Naval Architects; Biomedical Engineers; Materials Engineers; Chemical Engineers; Mechanical Engineers; Civil Engineers; Mining/Geological Engineers; Computer Hardware Engineers, Drafters, Engineering and Mapping Technicians. **MS Minimum:** Nuclear Engineers; Electrical/Electronics Engineers; Petroleum Engineers; Environmental Engineers; Engineers (all other).



Geology

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

ENGL 1301 - Composition I
ARTS 1301 - Art Appreciation
HIST 1301 - United States History I
GEOL 1403 - Physical Geology
EDUC/PSYC 1300 - Learning Framework

Second Semester - 16 SCH

ENGL 1302 - Composition II
HIST 1302 - United States History II
MATH 1314 - College Algebra
GEOL 1404 - Historical Geology
COSC 1301 - Introduction to Computing

Third Semester - 14 SCH

CHEM 1411 - General Chemistry I
SOC 1301 - Introduction to Sociology
GOVT 2305 - Federal Government
BIOL 1407 - Biology for Science Majors II

Fourth Semester - 14 SCH

CHEM 1412 - General Chemistry II
HIST 2321 - World Civilizations I
GOVT 2306 - Texas Government
PHYS 1401 - College Physics I

Marketable Skills

- Knowledge of principles and methods for describing the features of land, sea, and air masses, including their physical characteristics, locations, interrelationships, and the historical distribution of plant, animal, and human life.
- Collect, organize/analyze data and effectively manage time.
- Interpret results to write reports and summaries of findings.
- Use scientific reasoning to identify strengths/weaknesses and develop alternative solutions to problems.
- Use computers and software to process and present data.
- Effective development, interpretation, and expression of ideas through written, oral, and visual communication.
- Manipulation and analysis of a variety of mathematical data.
- Work collaboratively with others and be an active listener.

Program Outcomes

- Demonstrate mastery of the processes of science, the scientific method and established scientific knowledge.
- Demonstrate knowledge of basic terminology and understanding of major science concepts.
- Use appropriate laboratory techniques and equipment safely and proficiently.

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$90,980; 10% of workers earn \$45,320 or less; 10% of workers earn \$195,630 or more.

US wage data: workers on average earn \$93,800; 10% of workers earn \$57,040 or less; 10% of workers earn \$156,270 or more.

Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Geology major, 10 advanced courses are required by TAMU-Commerce: GEOL 312 (Structural / Tectonics) plus nine courses in geochemistry, field methods, mineralogy, historical geology, and geophysics.
- Required support courses include two in university physics and a summer field geology capstone.

Career Opportunities

BS Minimum: Environmental Scientist / Specialist; Secondary School Teacher; Geoscientist; Geographer Soil / Plant Scientist; Hydrologist; Geological Technician; Surveyor; Cartographers; Photogrammetrist; Mining Consultant; Safety Engineer; Surveying and Mapping Technician.

MS Minimum: Petroleum Engineer; Mine Engineer; Planning Engineer; Mining / Geological Engineer; Geology Professor.



Mathematics

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

MATH 2312 - Pre-Calculus Math
 ENGL 1301 - Composition I
 HIST 1301 - United States History I
 EDUC/PSYC 1100 - Learning Framework
 COSC 1301 - Introduction to Computing
 COMM 1307 - Introduction to Mass Communications

Second Semester - 16 SCH

MATH 2413 - Calculus I
 ENGL 1302 - Composition II
 HIST 1302 - United States History II
 MUSI 1306 - Music Appreciation
 ECON 2301 - Principles of Macroeconomics

Third Semester - 14 SCH

MATH 2414 - Calculus II
 GOVT 2305 - Federal Government
 PHYS 2425 - University Physics I
 COSC 1336 - Programming Fundamentals I

Fourth Semester - 14 SCH

MATH 2415 - Calculus III
 GOVT 2306 - Texas Government
 PHYS 2426 - University Physics II
 COSC 1337 - Programming Fundamentals II

Marketable Skills

- Identify complex problems and review information to develop and implement solutions.
- Choosing the right method or formulas to solve a problem.
- Apply general rules to specific problems and combine information and skills to reach conclusions.
- Observing, receiving, and gathering information or data to aid in solving problems.
- Analyzing information/data and evaluating results to choose a best solution to solve problems or make conclusions.
- Using logic and reasoning to identify the strengths and weaknesses of solutions, conclusions, or approaches to problems.
- Effectively comprehending, speaking, and writing information, conclusions, and solutions to persons both in and out of your discipline.

Program Outcomes

- Apply algebraic, analytic, geometric, or statistical reasoning to solve abstract and applied problems appropriate to an individual discipline.
- Interpret mathematical, quantitative or symbolic models such as formulas, graphs and tables, and draw inferences from them.
- Construct and interpret mathematical models using numerical, graphical, symbolic, and verbal representations with the help of technology in order to draw conclusions or make predictions.

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$62,090; 10% of workers earn \$41,550 or less; 10% of workers earn \$104,330 or more.
US wage data: workers on average earn \$110,860; 10% of workers earn \$61,130 or less; 10% of workers earn \$170,150 or more.

Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Mathematics major, eight advanced math courses are required by TAMU-Commerce after the Calculus sequence.
- Students who are considering teaching in high schools or middle schools must follow guidelines set for teacher certification.
- Students should refer to the catalog of the institution to which they plan to transfer for degree requirements.

Career Opportunities

BS Minimum: Actuary; Statistician; Market Research Analyst; Economist; Engineer; Financial Analyst; Data Scientist; Forensic Analyst; Math Teacher.
MS Minimum: College Professor; Astronomer.



Physics

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 17 SCH

ENGL 1301 - Composition I
MATH 2413 - Calculus I
HIST 1301 - United States History I
CHEM 1411 - General Chemistry I
EDUC/PSYC 1300 - Learning Framework

Second Semester - 16 SCH

ENGL 1302 - Composition II
MUSI 1306 - Music Appreciation
HIST 1302 - United States History II
MATH 2414 - Calculus II
COSC 1336 - Programming Fundamentals I

Third Semester - 14 SCH

MATH 2415 - Calculus III
ECON 2301 - Principles of Macroeconomics
GOVT 2305 - Federal Government
PHYS 2425 - University Physics I

Fourth Semester - 13 SCH

MATH 2320 - Differential Equations
HIST 2321 - World Civilization
GOVT 2306 - Texas Government
PHYS 2426 - University Physics II

Marketable Skills

- Using scientific rules and methods to solve problems.
- Understanding physical principles, laws, interrelationships, and applications for dealing with fluid, material and atmospheric dynamics and mechanical, electrical, atomic, and subatomic structures and processes.
- Knowledge of the physical principles and skills necessary to solve engineering and technology problems, and to design and produce technical goods and services.
- Application of critical thinking, logic, and scientific reasoning to solve emerging problems in new areas such as developing new energy sources, biophysics systems and technology, sports medicine, and environmental control changes.
- Developing skills to develop and enhance a career in teaching, research, technology, engineering, and physics-related areas in the future.

Program Outcomes

- Demonstrate mastery of the processes of science, the scientific method and established scientific knowledge.
- Demonstrate knowledge of basic terminology and understanding of major physical science concepts.
- Use appropriate laboratory techniques and equipment safely and proficiently.

High School Endorsements

STEM

Expected Salary

Texas wage data: workers on average earn \$111,300; 10% of workers earn \$49,620 or less; 10% of workers earn \$195,320 or more. **US wage data:** workers on average earn \$129,850; 10% of workers earn \$67,450 or less; 10% of workers earn \$208,000 or more.

Transfer Path/Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Physics major, 11 advanced courses are required by TAMU-Commerce: PHYS 412 (Electricity and Magnetism) plus 10 courses in quantum mechanics, waves and motion, astronomy, and mathematical/computational physics.
- Required support courses include differential equations and Calculus 3.

Career Opportunities

BS Minimum: Physical Scientist Assistant; Radiologic Technologist; Magnetic Resonance Imaging Technologist; Nuclear Medicine Technologist; Physics Teacher (secondary). **MS Minimum:** Physicist; Astronomer; Physics Teacher (Postsecondary); Atmospheric / Space Scientist; Materials Scientist; Physical Scientist.



Government

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

GOVT 2305 - Federal Government
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1342 - Elementary Statistical Methods
EDUC/PSYC 1300 - Learning Framework

Second Semester - 15 SCH

GOVT 2306 - Texas Government
ENGL 1302 - Composition II
HIST 1302 - United States History II
PHYS 1303 - Stars and Galaxies
SOC 1301 - Introduction to Sociology

Third Semester - 15 SCH

HIST 2321 - World Civilizations I
SPCH 1321 - Business & Professional Communication
ENGL 2331 - World Literature
SPAN 2311 - Intermediate Spanish I
BIOL 1322 - Nutrition & Diet Therapy

Fourth Semester - 15 SCH

BUSI 2301 - Business Law
HIST 2322 - World Civilizations II
ECON 2301 - Principles of Macroeconomics
SPAN 2312 - Intermediate Spanish II
ARTS 1301 - Art Appreciation

Marketable Skills

- Law and Government - Knowledge of laws, court procedures, government regulations, executive orders, and the political process.
- Leadership - The ability to maximize collective potential and guide others toward achieving shared goals.
- Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to community problems.
- Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Communication - Confident expression of ideas through oral and written communication with respect for clarity of meaning, grammar, composition, and spelling.
- Interpersonal Skills - Ability to interact with others adeptly and appropriately.

Program Outcomes

Students will:

- Explain constitutional principles and historical experiences that have shaped government institutions in the U.S. and Texas.
- Evaluate public opinion, civic engagement, and participatory practices from the perspective of a responsible citizen.
- Analyze challenges facing local, state, and national policymakers.

Transfer Path/Requirements

For Texas A&M Commerce

- A student completing the PJC curriculum is considered Core complete at TAMU-C.
- No more than 60-66 sch from PJC will be applied to a bachelor degree at TAMU-C. Another 60 or more must be completed at TAMU-C.
- For the Political Science major, 10 advanced courses are required by TAMU-C: PSCI 330 (Intro to Political Science), PSCI 335 (Political Economy), PSCI 488 (Contemporary Ideas), and one or more courses in each of these areas: Political Theory & Philosophy, Public Policy, American Political Processes, American Political Institutions, Comparative Politics, International Relations.
- Students should take both GOVT 2305 and 2306 at PJC before transferring to another institution.
- Students who are considering teaching in high schools or middle schools must follow guidelines set for teacher certification.
- Students should refer to the catalog of the institution to which they plan to transfer for degree requirements.

High School Endorsements

Social & Behavioral Sciences

Expected Salary

Texas wage data: workers on average earn \$92,720; 10% of workers earn \$55,730 or less; 10% of workers earn \$120,340 or more.
US wage data: workers on average earn \$125,350; 10% of workers earn \$62,840 or less; 10% of workers earn \$170,800 or more.

Career Opportunities

AA Minimum: Elected Official; Issue Advocate; Civil Servant; Law Enforcement or Correctional Officer; Community Organizer; Teaching Assistant; Research Assistant. **BA Minimum:** Teacher; Social Worker; Social Media Manager; Public Relations Specialist; Lobbyist; Journalist; Political Consultant. **MA Minimum:** Political Scientist; College Professor; Lawyer; Judge; Campaign Manager; Foreign Service Official; Non-Governmental Organization and Non-Profit Manager; Policy Analyst; Market Researcher; Political Party Strategist.



History

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 14 SCH

ENGL 1301 - Composition I
HIST 1301 - United States History I
ARTS 1301 - Art Appreciation
EDUC/PSYC 1100 - Learning Framework
GEOL 1403 - Physical Geology

Second Semester - 16 SCH

ENGL 1302 - Composition II
HIST 1302 - United States History II
MATH 1332 - Contemporary Mathematics
COSC 1301 - Introduction to Computing
GEOL 1404 - Historical Geology

Third Semester - 15 SCH

SPCH 1321 - Business & Professional Communication
GOVT 2305 - Federal Government
SPAN 2311 - Intermediate Spanish I
ENGL 2331 - World Literature
HIST 2321 - World Civilizations I

Fourth Semester - 15 SCH

SPAN 2312 Intermediate Spanish II
GOVT 2306 - Texas Government
SOC 1301 - Introduction to Sociology
ENGL 2322 - British Literature I
HIST 2322 - World Civilizations II

Marketable Skills

- Active Listening - giving full attention to what other people are saying, taking time to understand points being made, asking questions as appropriate, and not interrupting at inappropriate times.
- Computer Skills - ability to effectively use word processing software, information databases, and third-party apps.
- Critical Thinking - ability to use historical thinking skills to identify the strengths and weaknesses of arguments, and to provide alternative viewpoints, approaches, conclusions, and solutions to problems encountered.
- Inductive Reasoning - the ability to make evidence-driven judgments to synthesize multiple pieces of information, and able to form general rules, identify bias or subjectivity, establish causality, and make conclusions about complex topics, particularly as it relates to historical documents.
- Communication - ability to communicate ideas effectively through written, oral, and visual delivery modes.

Program Outcomes

- Create an argument through the use of historical evidence.
- Analyze and interpret primary and secondary sources.
- Analyze the effects of historical, social, political, economic, cultural, and global forces on U.S. and world history.

High School Endorsements

Social & Behavioral Sciences

Expected Salary

Texas wage data: workers on average earn \$69,310; 10% of workers earn \$45,880 or less; 10% of workers earn \$113,310 or more.
US wage data: workers on average earn \$63,100; 10% of workers earn \$29,540 or less; 10% of workers earn \$116,340 or more.

Career Opportunities

AA Minimum: Political Campaign Worker; Paralegal, Tour Guide, Research Assistant. **BA Minimum:** Public School Teacher; Research Analyst; Government Specialist; Lobbyist; Grant Writer; Print or Broadcast Journalist; Filmmaker; Public Administration; Records Manager; Historic Preservation. **MA Minimum:** College Instructor; Foreign Service/Diplomatic Corps; Lawyer; Archivist; Museum Curator; Librarian.

Transfer Path/Requirements

For Texas A&M Commerce

- A student completing the PJC curriculum is considered Core complete at TAMU-C.
- No more than 60-66 sch from PJC will be applied to a bachelor degree at TAMU-C. Another 60 or more must be completed at TAMU-C.
- For the History Science major, 12 advanced courses are required by TAMU-C.
- Students who are considering teaching in high schools or middle schools must follow guidelines set for teacher certification.



Psychology

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 14 SCH

ENGL 1301 - Composition I
 HIST 1301 - United States History I
 PSYC 2301 - General Psychology
 PSYC 1100 - Learning Framework
 BIOL 1408 - Biology for Non-Science Majors I

Second Semester - 16 SCH

ENGL 1302 - Composition II
 HIST 1302 - United States History II
 MATH 1342 - Elementary Statistical Methods
 COSC 1301 - Introduction to Computing
 BIOL 1409 - Biology for Non-Science Majors II

Third Semester - 15 SCH

SPCH 1321 - Business and Professional Communication
 GOVT 2305 - Federal Government
 PSYC 2314 - Lifespan Growth and Development
 SPAN 2311 - Intermediate Spanish I
 ENGL 2331 - World Literature

Fourth Semester - 15 SCH

DRAM 1310 - Introduction to Theater
 GOVT 2306 - Texas Government
 PSYC 2319 - Social Psychology
 COMM 1307 - Introduction to Mass Communications
 SPAN 2312 - Intermediate Spanish II

Marketable Skills

- Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems as they pertain to physiological and psychological processes involved in human behavior.
- Empirical and Quantitative Skills - Manipulation and analysis of numerical data or observable facts resulting in informed conclusions regarding various research methods, and their characteristics, used in the scientific study of psychology and accepted approaches and standards in psychological assessment and evaluation.
- Social Perceptiveness - Being aware of others' reactions and understanding objective variables that contribute to why people think, feel, and behave as they do.
- Service Orientation - Actively looking for ways to help people, promote prosocial behaviors, and increase altruism.
- Written Comprehension - The ability to read and understand information and ideas presented in writing.
- Oral Comprehension - the ability to listen to and understand information and ideas presented through spoken words and sentences.
- Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times to increase tolerance, appreciation of diversity, and, overall, understanding of human mental processes and behaviors.

High School Endorsements

Social & Behavioral Sciences

Expected Salary

Texas wage data: workers on average earn \$68,040; 10% of workers earn \$44,130 or less; 10% of workers earn \$101,050 or more. **US wage data:** workers on average earn \$79,820; 10% of workers earn \$46,410 or less; 10% of workers earn \$138,550 or more.

Career Opportunities

AA Minimum: Social Services Assistant, Psychiatric Technician, Teacher's Aide, Home-Care Aide, Family/Victim Advocate, Research Assistant, Correctional Officer, Community Service Manager, Administrative Service Manager. **BA Minimum:** Substance Abuse Counselor, Career/Employment Counselor, Activities Director, Probation/Parole Officer, Teacher, Social Worker, Public Relations Specialist, Family Intervention Specialist, Qualified Intellectual Disability Professional, Human Resources Specialist. **MA Minimum:** Licensed Professional Counselor, Licensed Psychological Associate, School Psychologist, Psychology Professor, Industrial/Organizational Psychologist, Clinical Psychologist, Counseling Psychologist, Social Psychologist, Experimental/Research Psychologist, Sports Psychologist, Forensic Psychologist, Developmental Psychologist.

Program Outcomes

- Demonstrate knowledge of the major theoretical perspectives in psychology.
- Demonstrate the ability to interpret what constitutes valid research in the field of psychology.
- Identify variable, physiological and psychological, influencing adaptive and maladaptive human behavior and mental processes.

Transfer Path / Requirements

- A student completing the PJC curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Psychology major, 13 advanced courses are required by TAMU-Commerce: Psychology Core courses, plus Psychology Natural Science Core, Psychology Social Science Core, Psychology Development Core, Psychology Applied Core, Psychology Special Topic and Psychology Independent Study.



Sociology

AA (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 14 SCH

ENGL 1301 - Composition I
HIST 1301 - United States History I
SOC 1301 - Introduction to Sociology
PSYC 1100 - Learning Framework
BIOL 1408 - Biology for Non-Science Majors I

Second Semester - 16 SCH

ENGL 1302 - Composition II
HIST 1302 - United States History II
MATH 1342 - Elementary Statistical Methods
COSC 1301 - Introduction to Computing
BIOL 1409 - Biology for Non-Science Majors II

Third Semester - 15 SCH

ARTS 1301 - Art Appreciation
GOVT 2305 - Federal Government
SOC 1306 - Social Problems
SPAN 2311 - Intermediate Spanish I
SPCH 1321 - Business and Professional Communication

Fourth Semester - 15 SCH

COMM 1307 - Introduction to Mass Communications
GOVT 2306 - Texas Government
SPAN 2312 - Intermediate Spanish II
ENGL 2331 - World Literature
PSYC 2301 - General Psychology

Marketable Skills

- Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems as they pertain to societal issues.
- Empirical and Quantitative Skills - Manipulation and analysis of numerical data or observable facts resulting in informed conclusions regarding various research methods, and their characteristics, used in the scientific study of sociology.
- Social Perceptiveness - Being aware of others' reactions and understanding objective variables that contribute to why people think, feel, and behave as they do.
- Written Comprehension - The ability to read and understand information and ideas presented in writing.
- Oral Comprehension - the ability to listen to and understand information and ideas presented through spoken words and sentences.
- Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times to increase tolerance, appreciation of diversity, and, overall, understanding of social structure and its influence.
- Speaking - Talking to others to convey information effectively and appropriately.
- Speech Clarity - The ability to speak clearly so others can understand you.

High School Endorsements

Social & Behavioral Sciences

Expected Salary

Texas wage data: workers on average earn \$59,490; 10% of workers earn \$44,850 or less; 10% of workers earn \$118,790 or more. **US wage data:** workers on average earn \$86,110; 10% of workers earn \$52,640 or less; 10% of workers earn \$143,020 or more.

Career Opportunities

AA Minimum: Social Services Assistant, Psychiatric Technician, Teacher's Aide, Home-Care Aide, Family/Victim Advocate, Research Assistant, Correctional Officer, Community Service Manager, Administrative Service Manager. **BA Minimum:** Substance Abuse Counselor, Career/Employment Counselor, Activities Director, Probation/Parole Officer, Teacher, Social Worker, Public Relations Specialist, Family Intervention Specialist, Qualified Intellectual Disability Professional, Human Resources Specialist. **MA Minimum:** Licensed Professional Counselor, Licensed Psychological Associate, Sociology Professor, Clinical Sociologist, Counseling Sociologist, Experimental/Research Sociologist, Sports Sociologist.

Program Outcomes

- Demonstrate the ability to apply sociological principles and theoretical perspectives to major social problems in contemporary society.
- Demonstrate the ability to analyze and interpret human society, social institutions, and individuals and how they affect one another.
- Demonstrate ability to apply principles and theories in written and oral communication which could include but are not limited to social stratification, gender, race/ethnicity, and deviance.

Transfer Path / Requirements

For Texas A&M-Commerce

- A student completing the Paris Junior College core curriculum is considered Core complete at Texas A&M-Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Sociology major, nine advanced courses are required by TAMU-Commerce.
- Students who are considering teaching in high schools or middle schools must follow guidelines set for teacher certification.



Criminal Justice

AAS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
CRIJ 1301 - Introduction to Criminal Justice
CRIJ 1307 - Crime in America
ENGL 1301 - Composition I
SOC1 1301 - Introduction to Sociology

Second Semester - 15 SCH

CRIJ 1306 - Court Systems & Practices
CRIJ 1310 - Fundamentals of Criminal Law
ENGL 1302 - Composition II
MATH 1332 - Contemporary Mathematics
SPCH 1321 - Business and Professional Communication

Third Semester - 15 SCH

CRIJ 1313 - Juvenile Justice System
CRIJ 2301 - Community Resources in Corrections
CRIJ 2313 - Correctional Systems & Practices
CRIJ 2314 - Criminal Investigation
PSYC 2301 - General Psychology

Fourth Semester - 15 SCH

CRIJ 2323 - Legal Aspects of Law Enforcement
CRIJ 2328 - Police Systems & Practices
CJSA 2364 - Practicum - Criminal Justice/Safety Studies
POFT 2312 - Business Correspondence & Communication
COMM 1307 - Introduction to Mass Communications

Marketable Skills

- Legal Knowledge - Comprehension of legal processes; analysis of the rights of different parties in the criminal justice system.
- Social Responsibility - Comprehension of moral and social responsibilities to the public; understanding the rights of victims, suspects, and offenders.
- Writing - Be able to write in a clear and comprehensible manner to the reader.
- Social Skills - Effectively use body language, verbal and non-verbal communication skills, and personal appearance to communicate and interact with others.
- Analytical Reasoning - Collect and evaluate data from a variety of data sources to inform the investigations, strategies, and policy decisions of criminal justice organizations in a way that will make the data usable for problem-solving.

Program Outcomes

- Students will demonstrate proficiency in the core criminal justice areas by describing the functions and roles of each area.
- Students will be able to model professional behaviors and skills in relation to the ethics and professionalism expected within the criminal justice system.
- Students will be able to identify, analyze, compare and contrast the philosophy and function of the role of law enforcement in American society.
- Students will be able to provide a comprehensive view of criminal justice that include criminal procedures, penal laws, policy, and procedure of the system.

High School Endorsements

Public Service / Social & Behavioral Sciences

Additional Educational Opportunities

Students may continue their education through a BAAS degree.

Expected Salary

Texas wage data: workers on average earn \$64,970; 10% of workers earn \$42,970 or less; 10% of workers earn \$89,120 or more. **US wage data:** workers on average earn \$65,540; 10% of workers earn \$38,420 or less; 10% of workers earn \$109,040 or more.

Career Opportunities

AAS Minimum: State Police; Police Officer; Sheriff Deputy; Constable; Justice of the Peace; Correctional Officer; Private Investigator; Paralegal; Security Officer; Bailiff; Police Dispatcher; Loss Prevention; Fraud Investigator; Latent Print Technician; Bail Agent; Fire Investigator; Court Administrator; School Resource Officer. **BAAS Minimum:** Federal Law Enforcement Agent; Game Warden; Probation Officer; Parole Officer; Conflict Resolution Mediator; Criminal Investigator; Crime Scene Technician; Crime Lab Analyst; Victim Advocate; Crime Reporter; Public Information Officer; Case Manager.



Criminal Justice

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

COSC 1301 - Introduction to Computing
CRIJ 1301 - Introduction to Criminal Justice
SOCJ 1301 - Introduction to Sociology
ENGL 1301 - Composition I
SPCH 1321 - Business and Professional Communication

Second Semester - 15 SCH

CRIJ 1306 - Court Systems & Practices
ENGL 1302 - Composition II
HIST 1301 - United States History I
CRIJ 1310 - Fundamentals of Criminal Law
MATH 1342 - Elementary Statistical Methods

Third Semester - 15 SCH

PHYS 1303 - Stars and Galaxies
CRIJ 2313 - Correctional Systems & Practices
PSYC 2301 - General Psychology
GOVT 2305 - Federal Government
HIST 1302 - United States History II

Fourth Semester - 15 SCH

PHYS 1304 - Solar System
COMM 1307 - Introduction to Mass Communications
DRAM 1310 - Introduction to Theater
CRIJ 2328 - Police Systems and Practices
GOVT 2306 - Texas Government

Marketable Skills

- Legal Knowledge - Comprehension of legal processes; analysis of the rights of different parties in the criminal justice system.
- Social Responsibility - Comprehension of moral and social responsibilities to the public; understanding the rights of victims, suspects, and offenders.
- Writing - Be able to write in a clear and comprehensible manner to the reader.
- Social Skills - Effectively use body language, verbal and non-verbal communication skills, and personal appearance to communicate and interact with others.
- Analytical Reasoning - Collect and evaluate data from a variety of data sources to inform the investigations, strategies, and policy decisions of criminal justice organizations in a way that will make the data usable for problem-solving.

Program Outcomes

- Students will demonstrate proficiency in the core criminal justice areas by describing the functions and roles of each area.
- Students will be able to model professional behaviors and skills in relation to the ethics and professionalism expected within the criminal justice system.
- Students will be able to identify, analyze, compare and contrast the philosophy and function of the role of law enforcement in American society.
- Students will be able to provide a comprehensive view of criminal justice that include criminal procedures, penal laws, policy, and procedure of the system.

High School Endorsements

Public Service / Social & Behavioral Sciences

Transfer Path/Requirements

A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.

Expected Salary

Texas wage data: workers on average earn \$64,970; 10% of workers earn \$42,970 or less; 10% of workers earn \$89,120 or more. **US wage data:** workers on average earn \$65,540; 10% of workers earn \$38,420 or less; 10% of workers earn \$109,040 or more.

Career Opportunities

AS Minimum: State Police; Police Officer; Sheriff Deputy; Constable; Justice of the Peace; Correctional Officer; Private Investigator; Paralegal; Security Officer; Bailiff; Police Dispatcher; Loss Prevention; Fraud Investigator; Latent Print Technician; Bail Agent; Fire Investigator; Court Administrator; School Resource Officer. **BS Minimum:** Federal Law Enforcement Agent; Game Warden; Probation Officer; Parole Officer; Conflict Resolution Mediator; Criminal Investigator; Crime Scene Technician; Crime Lab Analyst; Victim Advocate; Crime Reporter; Public Information Officer; Case Manager.



Education (EC-6 or 4-8)

AAT (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ENGL 1301 - Composition I
 HIST 1301 - United States History I
 EDUC/PSYC 1300 - Learning Framework
 SPCH 1315 - Public Speaking
 EDUC 1301 - Introduction to the Teaching Profession

Second Semester - 13 SCH

ENGL 1302 - Composition II
 HIST 1302 - United States History II
 GEOL 1401 - Earth Sciences for Non-Science Majors I
 MATH 1314 - College Algebra

Third Semester - 16 SCH

PSYC 2301 - General Psychology
 GOVT 2305 - Federal Government
 MATH 1350 - Fundamentals of Mathematics I
 ARTS 1301 - Art Appreciation
 BIOL 1408 - Biology for Non-Science Majors I

Fourth Semester - 16 SCH

EDUC 2301 - Introduction to Special Populations
 GOVT 2306 - Texas Government
 MATH 1351 - Fundamentals of Mathematics II
 ENGL 2331 - World Literature
 BIOL 1409 - Biology for Non-Science Majors II

Marketable Skills

- Instructing - Teaching others essential curriculum for skills development
- Communication - Verbal and written to convey information effectively
- Learning Strategies - Selecting and using training/instructional and procedures appropriate for the situation when teaching essential curriculum .
- Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems to meet individual student needs.
- Monitoring - Monitoring/Assessing performance of instruction, students, or organizations to make improvements or take corrective action.
- Social Perceptiveness - Being aware of others' reactions and understanding why they react as they do.

Program Outcomes

Students will be able to:

- Compose a Philosophy of Education and demonstrate knowledge and understanding of philosophical beliefs pertaining to teaching and learning.
- Compose a Reflection Paper that analyzes and evaluates the (16) hours of Field Observation Experience.
- Evaluate and justify a collection of resources and materials compiled into an electronic portfolio based on the competencies addressed in the State Board for Educator Certification Pedagogy and Professional Responsibilities.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$58,400; 10% of workers earn \$43,730 or less; 10% of workers earn \$74,230 or more.

US wage data: workers on average earn \$62,870; 10% of workers earn \$41,330 or less; 10% of workers earn \$102,130 or more.

Transfer Path/Requirements

- Student should refer to the catalog of the institution to which he/she plans to transfer for degree requirements.
- A student completing the Paris Junior College core curriculum is considered Core complete at Texas public universities.
- For the education (EC-6) major, TAMU-Textarkana requires students to take HIST 2311 or 2312 for the Language, Philosophy, and Culture credit.
- For the (EC-6) major, TAMU-T requires PHYS 1315 + Lab (Introduction to Physical Science) for their nonlife science credit.
- All education majors must take 12 hours of science, one nonlife and two life sciences.
- At most Texas public universities, EC-6 and 4-8 majors are required to take MATH 1351.

Career Opportunities

AAT Minimum: Teacher's aide; Paraprofessional; Secretary; Child Care Teacher; College Tutor; Nanny; Administrative Assistant; Substitute Teacher. **Bachelor's Degree Minimum:** Headstart Teacher; Elementary School Teacher; Middle School Teacher; High School Teacher; Band Director; Athletic Coach; Adult Basic Education Instructor; Developmental Education Instructor.



Education (Multiple Levels)

AAT (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 15 SCH

ENGL 1301 - Composition I
HIST 1301 - United States History I
EDUC/PSYC 1300 - Learning Framework
EDUC 1301 - Introduction to the Teaching Profession
SPCH 1315 - Public Speaking

Second Semester - 13 SCH

ENGL 1302 - Composition II
HIST 1302 - United States History II
GEOL 1401 - Earth Sciences for Non-Science Majors I
MATH 1314 - College Algebra

Third Semester - 16 SCH

PSYC 2301 - General Psychology
GOVT 2305 - Federal Government
ARTS 1301 - Art Appreciation
BIOL 1408 - Biology for Non-Science Majors I
Content Area/Academic Discipline Course - 3 credits

Fourth Semester - 16 SCH

EDUC 2301 - Introduction to Special Populations
GOVT 2306 - Texas Government
ENGL 2331 - World Literature
CHEM 1411 - General Chemistry I
Content Area/Academic Discipline Course - 3 credits

Marketable Skills

- Instructing - Teaching others essential curriculum for skills development
- Communication - Verbal and written to convey information effectively
- Learning Strategies - Selecting and using training/instructional and procedures appropriate for the situation when teaching essential curriculum.
- Critical Thinking - Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems to meet individual student needs.
- Monitoring - Monitoring/Assessing performance of instruction, students, or organizations to make improvements or take corrective action.
- Social Perceptiveness - Being aware of others' reactions and understanding why they react as they do.

Program Outcomes

Students will be able to:

- Compose a Philosophy of Education and demonstrate knowledge and understanding of philosophical beliefs pertaining to teaching and learning.
- Compose a Reflection Paper that analyzes and evaluates the (16) hours of Field Observation Experience.
- Evaluate and justify a collection of resources and materials compiled into an electronic portfolio based on the competencies addressed in the State Board for Educator Certification Pedagogy and Professional Responsibilities.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$58,400; 10% of workers earn \$43,730 or less; 10% of workers earn \$74,230 or more.

US wage data: workers on average earn \$62,870; 10% of workers earn \$41,330 or less; 10% of workers earn \$102,130 or more.

Transfer Path/Requirements

- Students should refer to the catalog of the institution to which they plan to transfer for degree requirements.
- A student completing the Paris Junior College core curriculum is considered core complete at Texas public universities.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For Texas A&M-Textarkana, students must take HIST 2311 or HIST 2312 for the Language, Philosophy, and Culture credit.
- All education majors in Texas must take 12 hours of science, one nonlife and two life sciences.

Career Opportunities

AAT Minimum: Teacher's aide; Paraprofessional; Secretary; Child Care Teacher; College Tutor; Nanny; Administrative Assistant; Substitute Teacher. **Bachelor's Degree Minimum:** Headstart Teacher; Elementary School Teacher; Middle School Teacher; High School Teacher; Band Director; Athletic Coach; Adult Basic Education Instructor; Developmental Education Instructor.



Kinesiology / Public Health option*

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

EDUC/PSYC 1100 - Learning Framework
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1342 - Elementary Statistical Methods
PHED 1301 - Foundations of Kinesiology
MUSI 1306 - Music Appreciation

Second Semester - 15 SCH

COMM 1307 - Introduction to Mass Communications
ENGL 1302 - Composition II
HIST 1302 - United States History II
PHED 1304 - Personal/Community Health
PHED 1338 - Concepts of Physical Fitness

Third Semester - 16 SCH

BIOL 2401 - Anatomy & Physiology I
ECON 2302 - Principles of Microeconomics
GOVT 2305 - Federal Government
PHED 1306 - First Aid
SPCH 1315 - Public Speaking

Fourth Semester - 13 SCH

BIOL 2402 - Anatomy & Physiology II
GOVT 2306 - Texas Government
PHED 2356 - Care and Prevention of Athletic Injuries
PSYC 2314 - Lifespan Growth and Development

*Kinesiology requires PHED 2356 in the fourth semester; Public Health requires PHED 1346 in the fourth semester.

Marketable Skills

- Select and implement training, instructional methods and procedures that are appropriate for the situation when learning or teaching new ideas and tasks.
- Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.
- Determining how a system should work and how changes in conditions, operations and the environment will affect outcomes.
- Speaking to others to convey information effectively.
- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Monitoring and assessing performance of yourself, other individuals or organizations to make improvements to take corrective action.
- Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Communicating effectively in writing as appropriate for the needs of the audience.
- Considering the relative costs of actions and choosing the most appropriate.

Program Outcomes

- Demonstrate an applied understanding of the form and function of the human body.
- Identify and describe the factors that influence health, rehabilitation, and human movement.
- Evaluate programs and interventions related to health promotion, physical activity and the treatment of diseases.

Transfer Path/Requirements

For Texas A&M Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the kinesiology major, students might transfer either to the Sport and Recreation Management B.S. or the Kinesiology and Sports Studies B.A./B.S. - All-Level Teacher Certification. The student should check the specific requirements of the degree they are seeking.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$64,100; 10% of workers earn \$18,320 or less; 10% of workers earn \$106,270 or more. **US wage data:** workers on average earn \$66,290; 10% of workers earn \$33,140 or less; 10% of workers earn \$130,580 or more.

Career Opportunities

AS Minimum: Exercise Trainers and Group Fitness Instructors; Respiration Therapist; Physical Therapist Aide. **BS Minimum:** Athletic Administrator; Athletic Trainer; Athletics Coach; Sports Officiating; Exercise Physiologist; Fitness and Wellness Coordinators. **MS Minimum:** Physical Therapist; Recreational Therapist; Sports Management; College Coaching; Recreation and Fitness Studies Teachers (Postsecondary).



Sport and Recreation Management

AS (60 SCH*)

*Semester Credit Hour

4/2022

First Semester - 16 SCH

EDUC/PSYC 1100 - Learning Framework
ENGL 1301 - Composition I
HIST 1301 - United States History I
MATH 1342 - Elementary Statistical Methods
PHED 1301 - Foundations of Kinesiology
MUSI 1306 - Music Appreciation

Second Semester - 16 SCH

COMM 1307 - Introduction to Mass Communications
ENGL 1302 - Composition II
HIST 1302 - United States History II
BIOL 2401 - Anatomy & Physiology I
PHED 1338 - Concepts of Physical Fitness

Third Semester - 16 SCH

BIOL 2402 - Anatomy & Physiology II
ECON 2301 - Principles of Macroeconomics
GOVT 2305 - Federal Government
PHED 1306 - First Aid
SPCH 1315 - Public Speaking

Fourth Semester - 12 SCH

ACCT 2301 - Principles of Financial Accounting
ECON 2302 - Principles of Microeconomics
GOVT 2306 - Texas Government
PHED 2356 - Care and Prevention of Athletic Injuries

Marketable Skills

- Select and implement training, instructional methods and procedures that are appropriate for the situation when learning or teaching new ideas and tasks.
- Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.
- Determining how a system should work and how changes in conditions, operations and the environment will affect outcomes.
- Speaking to others to convey information effectively.
- Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
- Monitoring and assessing performance of yourself, other individuals or organizations to make improvements to take corrective action.
- Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
- Communicating effectively in writing as appropriate for the needs of the audience.
- Considering the relative costs of actions and choosing the most appropriate.

Program Outcomes

- Demonstrate an applied understanding of the form and function of the human body.
- Identify and describe the factors that influence health, rehabilitation, and human movement.
- Evaluate programs and interventions related to health promotion, physical activity and the treatment of diseases.

Transfer Path/Requirements

For Texas A&M Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 SCH from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the kinesiology major, students might transfer either to the Sport and Recreation Management B.S. or the Kinesiology and Sports Studies B.A./B.S. - All-Level Teacher Certification. The student should check the specific requirements of the degree they are seeking.

High School Endorsements

Public Service

Expected Salary

Texas wage data: workers on average earn \$58,340; 10% of workers earn \$30,830 or less; 10% of workers earn \$84,790 or more. **US wage data:** workers on average earn \$49,860; 10% of workers earn \$32,980 or less; 10% of workers earn \$75,810 or more.

Career Opportunities

AS Minimum: Exercise Trainers and Group Fitness Instructors; Respiration Therapist; Physical Therapist Aide. **BS Minimum:** Athletic Administrator; Athletic Trainer; Athletics Coach; Sports Officiating; Exercise Physiologist; Fitness and Wellness Coordinators. **MS Minimum:** Physical Therapist; Recreational Therapist; Sports Management; College Coaching; Recreation and Fitness Studies Teachers (Postsecondary).