Paris Junior College
PATHWAYS

STEM
- Biology
- Chemistry
- Computer Information Systems
- Engineering
- Geology
- Mathematics
- Physics

SOCIAL & BEHAVIORAL SCIENCES
- Government
- History
- Psychology
- Sociology

HEALTH CAREERS
- Allied Health
- Emergency Medical Services
- Enhanced Nurse Aide
- Medical Records Coding
- Nursing
- Radiology Technology
- Surgical Technology

PUBLIC SERVICES
- Criminal Justice
- Education
- Kinesiology / Public Health
- Sport and Recreation

INDUSTRY
- Air Conditioning & Refrigeration
- Computer Aided Design - 3D Printing
- Cybersecurity
- Electrician • Gemology
- Horology • Jewelry
- Mechatronics • Networking
- Welding

ARTS & HUMANITIES
- Art • Drama
- English • Music
- Spanish • Speech

BUSINESS
- Accounting/Business Administration
- Agriculture
- Business Management
- Office Technology
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<td>SOCI 1301 - Introductory Sociology</td>
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**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.

**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.

**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.
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.
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.

 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).
### 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

### 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.).

### 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.
### 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
- SOCI 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.

### 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.

### 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.
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
SOCI 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

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.

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.

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.

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

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<td>MUSI 1306 - Music Appreciation</td>
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<td>ENGL 1301 - Composition I</td>
<td>HIST 1302 - United States History II</td>
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<tr>
<td>HIST 1301 - United States History I</td>
<td>MATH 1325 - Calculus for Business &amp; Social Sciences</td>
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<tr>
<td>MATH 1324 - Mathematics for Business &amp; Social Sciences</td>
<td>ENGL 1302 - Composition II</td>
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<td>ACCT 2301 - Principles of Financial Accounting</td>
<td>ECON 2302 - Principles of Microeconomics</td>
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<td>ECON 2301 - Principles of Macroeconomics</td>
<td>GOVT 2306 - Texas Government</td>
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<td>BUSI 2301 - Business Law</td>
<td>PHYS 1303 - Stars and Galaxies</td>
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<tr>
<td>BIOL 1322 - Nutrition &amp; Diet Therapy</td>
<td>ACCT 2302 - Principles of Managerial Accounting</td>
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<td>GOVT 2305 - Federal Government</td>
<td>COMM 1307 - Introduction to Mass Communications</td>
</tr>
</tbody>
</table>

### 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.
- 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.

### Program Outcomes

### 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.

### 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.

### 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.
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<td>AGRI 1329 - Principles of Food Science</td>
<td>ENGL 1302 - Composition II</td>
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<td>ENGL 1301 - Composition I</td>
<td>HIST 1302 - United States History II</td>
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<td>HIST 1301 - United States History I</td>
<td>MATH 1314 - College Algebra or</td>
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<tr>
<td>COSC 1301 - Introduction to Computing</td>
<td>MATH 1324 - Math for Business &amp; Social Sciences*</td>
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<tr>
<td>MUSI 1306 - Music Appreciation</td>
<td>SPCH 1321 - Business &amp; Professional Communication</td>
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<th>Third Semester - 13 SCH</th>
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<td>AGRI 2317 - Introduction to Agricultural Economics</td>
<td>AGRI 1407 - Agronomy</td>
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<td>COMM 1307 - Introduction to Mass Communications</td>
<td>BIOL 1406 - Biology for Science Majors I</td>
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<td>CHEM 1411 - General Chemistry I or</td>
<td>CHEM 1412 - General Chemistry II</td>
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<tr>
<td>CHEM 1405 - Introduction to Chemistry*</td>
<td>GOVT 2305 - Texas Government</td>
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<tr>
<td>GOVT 2305 - Federal Government</td>
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</table>

** 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.

**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.

**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.

**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.
## 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

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<tr>
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<tr>
<td>BUSG 1301 - Introduction to Business</td>
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<tr>
<td>MRKG 1311 - Principles of Marketing</td>
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<tr>
<td>ENGL 1301 - Composition I</td>
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<tr>
<td>ACNT 1311 - Introduction to Computerized Accounting</td>
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<tr>
<td>BMGT 1327 - Principles of Management</td>
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<tr>
<td>MUSI 1306 - Music Appreciation</td>
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<tr>
<td>HRPO 2301 - Human Resources Management</td>
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<tr>
<td>MATH 1332 - Contemporary Mathematics</td>
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<tr>
<th>Third Semester - 15 SCH</th>
<th>Fourth Semester - 15 SCH</th>
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<tbody>
<tr>
<td>ACCT 2301 - Principles of Financial Accounting</td>
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<tr>
<td>POFT 2312 - Business Correspondence &amp; Communication</td>
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<tr>
<td>BUSI 2301 - Business Law</td>
<td></td>
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<tr>
<td>ECON 2301 - Principles of Macroeconomics</td>
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<tr>
<td>ITSW 1304 - Introduction to Spreadsheets</td>
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<tr>
<td>ACCT 2302 - Principles of Managerial Accounting</td>
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<tr>
<td>ITSW 2334 - Advanced Spreadsheets</td>
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<tr>
<td>BUSG 2309 - Small Business Management/Entrepreneurship</td>
<td></td>
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<tr>
<td>ECON 2302 - Principles of Microeconomics</td>
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<tr>
<td>BMGT 1368 - Practicum - Business Administration &amp; Management, General</td>
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</tr>
</tbody>
</table>

**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.

**Career Opportunities**

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

Students may continue their education through a BAAS degree.
## Business Management

### Certificate (42 SCH*)

*Semester Credit Hour

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<tr>
<th>First Semester - 15 SCH</th>
<th>Second Semester - 15 SCH</th>
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<tr>
<td>BCIS 1305 - Business Computer Applications</td>
<td>ACNT 1311 - Introduction to Computerized Accounting</td>
</tr>
<tr>
<td>BUSG 1301 - Introduction to Business</td>
<td>BMGT 1327 - Principles of Management</td>
</tr>
<tr>
<td>ACNT 1303 - Introduction to Accounting I</td>
<td>BUSI 2301 - Business Law</td>
</tr>
<tr>
<td>MRKG 1311 - Principles of Marketing</td>
<td>ECON 2302 - Principles of Microeconomics</td>
</tr>
<tr>
<td>IITSW 1304 - Introduction to Spreadsheets</td>
<td>IITSW 2334 - Advanced Spreadsheets</td>
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<tr>
<th>Third Semester - 12 SCH</th>
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<tbody>
<tr>
<td>BUSG 2309 - Small Business Management/Entrepreneurship</td>
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</tr>
<tr>
<td>ECON 2301 - Principles of Macroeconomics</td>
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<td></td>
</tr>
<tr>
<td>POFT 2312 - Business Correspondence &amp; Communication</td>
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</tbody>
</table>

### 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.

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

### Additional Educational Opportunities
- Students may continue their education through an AAS in Business Management and BAAS degree.
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.

 Career Opportunities

Entrepreneur
### Office Accounting

**Certificate (42 SCH*)**  
*Semester Credit Hour*  
4/2022

<table>
<thead>
<tr>
<th>First Semester - 15 SCH</th>
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<tr>
<td>ACNT 1303 - Introduction to Accounting I</td>
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<tr>
<td>ITSC 1305 - Introduction to PC Operating Systems</td>
<td>ITSC 2321 - Integrated Software Applications II</td>
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<tr>
<td>ITSC 1309 - Integrated Software Applications I</td>
<td>POFT 1319 - Records &amp; Information Management</td>
</tr>
<tr>
<td>POFT 1321 - Business Math</td>
<td>POFT 2301 - Intermediate Keyboarding</td>
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<tr>
<td>POFT 1329 - Beginning Keyboarding</td>
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</tbody>
</table>

### 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.

### 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.

### 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.

### Additional Educational Opportunities

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

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

### 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.
### 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.
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

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, program, troubleshoot and repair residential, commercial and industrial Distributed Digital Control Systems.
• Become certified to handle CFC’s, HCFC’s, and HFC’s.

 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.

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.

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.

Additional Educational Opportunities

Associate of Applied Science in Air Conditioning
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.

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.

Additional Educational Opportunities
Associate of Applied Science in Air Conditioning
# Computer-Aided Design

**AAS (60 SCH*)**

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<tbody>
<tr>
<td>PSYC 1300 - Learning Framework</td>
<td>DFTG 1345 - Parametric Modeling and Design</td>
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<tr>
<td>DFTG 1309 - Basic Computer-Aided Drafting</td>
<td>DFTG 2312 - Technical Illustration and Presentation</td>
</tr>
<tr>
<td>DFTG 1305 - Technical Drafting</td>
<td>DFTG 2302 - Machine Drafting</td>
</tr>
<tr>
<td>DFTG 2319 - Intermediate Computer-Aided Drafting</td>
<td>DFTG 2340 - Solid Modeling/Design</td>
</tr>
<tr>
<td>DFTG 1325 - Blueprint Reading and Sketching</td>
<td>SPCH 1321 - Business &amp; Professional Communication</td>
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<tr>
<th>Third Semester - 15 SCH</th>
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<tbody>
<tr>
<td>DFTG 1317 - Architectural Drafting - Residential</td>
<td>DFTG 1358 - Electrical/Electronic/Drawing</td>
</tr>
<tr>
<td>DFTG 2321 - Topographical Drafting</td>
<td>DFTG 2323 - Pipe Drafting</td>
</tr>
<tr>
<td>DFTG 2331 - Advanced Technologies in Architectural Design and Drafting</td>
<td>DFTG 2338 - Final Project - Advanced Drafting</td>
</tr>
<tr>
<td>DFTG 2328 - Architectural Drafting - Commercial</td>
<td>MATH 1314 - College Algebra</td>
</tr>
<tr>
<td>ENGL 1301 - Composition I</td>
<td>DRAM 1310 - Introduction to Theater</td>
</tr>
</tbody>
</table>

## 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 Education Opportunities

Bachelor of Arts in Applied Science

## 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.
### 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

### 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.

### Certificate (45 SCH*)
- *Semester Credit Hour

### 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
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

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.

Additional Educational Opportunities
Associate in Applied Science, Bachelor of Arts in Applied Science.
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

Additional Educational Opportunities

Certificate (27 SCH*)  
*Semester Credit Hour

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.
# Electrician

## First Semester - 12 SCH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNBT 2342</td>
<td>Construction Management I</td>
</tr>
<tr>
<td>ELPT 1325</td>
<td>National Electrical Code I</td>
</tr>
<tr>
<td>ELPT 1311</td>
<td>Basic Electrical Theory</td>
</tr>
<tr>
<td>ELPT 1329</td>
<td>Residential Wiring</td>
</tr>
</tbody>
</table>

## Second Semester - 12 SCH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNBT 2310</td>
<td>Commercial/Industrial Blueprint Reading</td>
</tr>
<tr>
<td>ELPT 1345</td>
<td>Commercial Wiring</td>
</tr>
<tr>
<td>ELPT 1357</td>
<td>Industrial Wiring</td>
</tr>
<tr>
<td>ELPT 2305</td>
<td>Motors and Transformers</td>
</tr>
</tbody>
</table>

### 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

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 watchmaker’s 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.
**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 2309 - Intermediate Horology IX

HRGY 2310 - Intermediate Horology X

HRGY 2311 - Intermediate Horology XI

HRGY 2312 - Intermediate Horology XII

**HRGY 2341 - Advanced Horology Systems I**

**HRGY 2342 - Advanced Horology Systems II**

**HRGY 2343 - Advanced Horology Systems III**

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** 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 watchmaker's lathe to 1/100 mm tolerance reflecting industry standards.

**High School Endorsements**

Business and Industry

**Additional Education Opportunities**

Grades 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.
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
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- Knowledge of industry tools and equipment
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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 watchmaker's 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.
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

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 might also want to pursue a BAAS degree or 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.
<table>
<thead>
<tr>
<th>First Semester - 12 SCH</th>
<th>Second Semester - 12 SCH</th>
</tr>
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<tr>
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<tr>
<td>HRGY 1302 - Jewelry Techniques II</td>
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<td>HRGY 1349 - Jewelry Repair/Fabrication II</td>
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<tr>
<td>Third Semester - 12 SCH</td>
<td>Fourth Semester - 9 SCH</td>
</tr>
<tr>
<td>HRGY 1342 - Stone Setting II</td>
<td>HRGY 2336 - Precious Metals II</td>
</tr>
<tr>
<td>HRGY 1343 - Stone Setting III</td>
<td>HRGY 2337 - Precious Metals III</td>
</tr>
<tr>
<td>HRGY 1344 - Stone Setting IV</td>
<td>HRGY 2338 - Precious Metals IV</td>
</tr>
<tr>
<td>HRGY 2335 - Precious Metals I</td>
<td></td>
</tr>
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** 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.
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** 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.
**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

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** 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

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**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.
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- 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.

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**High School Endorsements**

Business and Industry

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**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.

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**Career Opportunities**

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

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**Additional Education Opportunities**

Students pursuing an AAS in Jewelry Technology, and might also want to pursue Certifications in Gemology or CAD/CAM.
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<tr>
<td>HRGY 2333 - Casting II</td>
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**Third Semester - 12 SCH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRGY 1371 - Introduction to Computer Aided Jewelry Design</td>
<td></td>
</tr>
<tr>
<td>HRGY 1372 - Technical Illustration for Jewelry Design</td>
<td></td>
</tr>
<tr>
<td>HRGY 1373 - Basic Computer Aided Drafting for Jewelry Design</td>
<td></td>
</tr>
<tr>
<td>HRGY 1374 - Solid Modeling Design for Jewelry</td>
<td></td>
</tr>
</tbody>
</table>

**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.

**Marketable Skills**

- Computer aided design CAD software
- Database 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.

**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.

**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.
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

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.

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.

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

### 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.

### 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

### 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.
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.

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.

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.

Additional Education Opportunities

Associate of Applied Science, Bachelor of Arts in Applied Science
### 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
- ITCW 1307 - Introduction to Database
- ITNW 2305 - Network Administration
- ITSW 2334 - Advanced Spreadsheets
- ITSC 1364 – Practicum - Computer and Information Sciences, General
- ITCW 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*)

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

### 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.

### Additional Education Opportunities
Students may continue their education through an AAS degree.

### 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.
### 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

First Semester - 15 SCH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>COSC 1301</td>
<td>Introduction to Computing</td>
</tr>
<tr>
<td>ITCC 1314</td>
<td>CCNA 1: Introduction to Networks</td>
</tr>
<tr>
<td>ITSC 1305</td>
<td>Introduction to PC Operating Systems</td>
</tr>
<tr>
<td>ITSY 1300</td>
<td>Fundamentals of Information Security</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
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Second Semester - 15 SCH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITCC 1344</td>
<td>CCNA 2: Switching, Routing, and Wireless Essentials</td>
</tr>
<tr>
<td>ITSY 1342</td>
<td>Information Technology Security</td>
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<tr>
<td>ITNW 1354</td>
<td>Implementing and Supporting Servers</td>
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<tr>
<td>ITNW 2305</td>
<td>Network Administration</td>
</tr>
<tr>
<td>MATH 1332</td>
<td>Contemporary Mathematics</td>
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Third Semester - 15 SCH

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ITSY 2330</td>
<td>Intrusion Detection</td>
</tr>
<tr>
<td>ITSY 2300</td>
<td>Operating System Security</td>
</tr>
<tr>
<td>ITSY 2301</td>
<td>Firewalls and Network Security</td>
</tr>
<tr>
<td>ITSC 1325</td>
<td>Personal Computer Hardware</td>
</tr>
<tr>
<td>DRAM 1310</td>
<td>Theater Appreciation</td>
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Fourth Semester - 15 SCH

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ITSY 2343</td>
<td>Computer System Forensics</td>
</tr>
<tr>
<td>ITSY 2342</td>
<td>Incident Response &amp; Handling</td>
</tr>
<tr>
<td>ITSY 2345</td>
<td>Network Defense and Countermeasures</td>
</tr>
<tr>
<td>GAME 1301</td>
<td>Computer Ethics</td>
</tr>
<tr>
<td>ECON 2302</td>
<td>Principles of Microeconomics</td>
</tr>
</tbody>
</table>

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.

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

Additional Education Opportunities

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

**Certificate (48 SCH*)**

*Semester Credit Hour

### 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

**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 1317** - 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.

**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.

**Bachelor of Arts in Applied Science**
### First Semester - 18 SCH

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>WLDG 1307</td>
<td>Intro to Welding Using Multi-processes</td>
</tr>
<tr>
<td>WLDG 1313</td>
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</tr>
<tr>
<td>WLDG 1417</td>
<td>Intro to Layout and Fabrication</td>
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<tr>
<td>WLDG 1428</td>
<td>Intro to Shielded Metal Arc Welding</td>
</tr>
<tr>
<td>WLDG 1457</td>
<td>Intermediate Shielded Metal Arc Welding</td>
</tr>
</tbody>
</table>

### 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.

### 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.

### Additional Education Opportunities

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

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

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.

Additional Education Opportunities

- Associate of Arts in Applied Science; Bachelor of Arts in Applied Science
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
- SOCI 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.

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.

Additional Educational Opportunities
- Bachelor of Science in Allied Health related programs.
### Emergency Medical Services

**AAS (60 SCH*)**

*Semester Credit Hour 4/2022*

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

<table>
<thead>
<tr>
<th>First Semester - 15 SCH</th>
<th>Second Semester - 15 SCH</th>
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<tbody>
<tr>
<td>BIOL 2401 - Anatomy &amp; Physiology I</td>
<td>EMSP 1162 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)</td>
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<tr>
<td>EMSP 1161 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)</td>
<td>EMSP 1355 - Trauma Management</td>
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<tr>
<td>EMSP 1356 - Patient Assessment and Airway Management</td>
<td>EMSP 2434 - Medical Emergencies</td>
</tr>
<tr>
<td>EMSP 1438 - Introduction to Advanced Practice</td>
<td>EMSP 2444 - Cardiology</td>
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<tr>
<td>EMSP 2306 - Emergency Pharmacology</td>
<td>MUSI 1306 - Music Appreciation</td>
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<tr>
<th>Third Semester - 10 SCH</th>
<th>Fourth Semester - 13 SCH</th>
</tr>
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<tbody>
<tr>
<td>EMSP 2160 - Clinical - Emergency Medical Technology / Technician (EMT Paramedic)</td>
<td>PSYC 2314 - Lifespan Growth &amp; Development</td>
</tr>
<tr>
<td>EMSP 2143 - Assessment Based Management</td>
<td>ENGL 1301 - Composition I</td>
</tr>
<tr>
<td>EMSP 2266 - Practicum (or Field Experience) Emergency Medical Technician / Technician (EMT Paramedic)</td>
<td>COSC 1301 - Introduction to Computing</td>
</tr>
<tr>
<td>EMSP 2305 - EMS Operations</td>
<td>BIOL 2402 - Anatomy &amp; Physiology II</td>
</tr>
<tr>
<td>EMSP 2330 - Special Populations</td>
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</tr>
</tbody>
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### 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.
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.
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.

Career Opportunities

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

Additional Educational Opportunities

Students may pursue an Associate of Applied Science.
Enhanced Nurse Aide - Certificate I

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.
### 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.

### Career Opportunities

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

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### Marketable Skills

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

### Program Outcomes

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

---

### 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

---

### High School Endorsements

- Public Service

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### Enhanced Nurse Aide - Certificate II

- Certificate (25 SCH*)
- *Semester Credit Hour

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### 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.

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### Additional Educational Opportunities

- Students may pursue a vocational nursing certificate.
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.

Career Opportunities

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

Additional Educational Opportunities

Students may pursue a vocational nursing certificate.
**Prerequisites - 20 SCH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1322</td>
<td>Nutrition &amp; Diet Therapy</td>
</tr>
<tr>
<td>BIOL 2401</td>
<td>Anatomy &amp; Physiology I</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Anatomy &amp; Physiology II</td>
</tr>
<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
</tr>
<tr>
<td>PSYC 2314</td>
<td>Lifespan Growth &amp; Development</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
</tr>
</tbody>
</table>

Must hold a current unencumbered LVN or LPN license.

**First Semester - 9 SCH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNSG 1118</td>
<td>Transition to Professional Nursing</td>
</tr>
<tr>
<td></td>
<td>Competencies</td>
</tr>
<tr>
<td>RNSG 1126</td>
<td>Professional Nursing Concepts II</td>
</tr>
<tr>
<td>RNSG 1324</td>
<td>Concept-Based Transition to Professional Nursing</td>
</tr>
<tr>
<td>BIOL 2420</td>
<td>Microbiology for Non-Science Majors</td>
</tr>
</tbody>
</table>

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

**Second Semester - 12 SCH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNSG 1538</td>
<td>Health Care Concepts III</td>
</tr>
<tr>
<td>RNSG 1137</td>
<td>Professional Nursing Concepts III</td>
</tr>
<tr>
<td>RNSG 2363</td>
<td>Clinical - Registered Nursing/Registered Nurse</td>
</tr>
<tr>
<td>SOCI 1301</td>
<td>Introduction to Sociology</td>
</tr>
</tbody>
</table>

**Third Semester - 12 SCH**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RNSG 2539</td>
<td>Health Care Concepts IV</td>
</tr>
<tr>
<td>RNSG 2138</td>
<td>Professional Nursing Concepts IV</td>
</tr>
<tr>
<td>RNSG 2360</td>
<td>Clinical - Registered Nursing/Registered Nurse</td>
</tr>
<tr>
<td>MUSI 1306</td>
<td>Music Appreciation</td>
</tr>
</tbody>
</table>

** 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.

**Career Opportunities**


**Additional Educational Opportunities**

Students may pursue a Bachelor of Science in Nursing (BSN).
### Academic Support Courses - 12 SCH
- COSC 1301 - Introduction to Computing
- HITT 1305 - Medical Terminology I
- HPR 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
- I TSW 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

<table>
<thead>
<tr>
<th>Academic Support Courses - 12 SCH</th>
<th>First Semester - 6 SCH (Summer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HITT 1305 - Medical Terminology I</td>
<td>HITT 1301 - Health Data Content and Structure</td>
</tr>
<tr>
<td>HPRS 2301 - Pathophysiology</td>
<td>HPRS 2300 - Pharmacology for Health Professions</td>
</tr>
<tr>
<td>ITSC 1309 - Integrated Software Applications I</td>
<td>ITSC 1309 - Anatomy and Physiology for Medical Assistants</td>
</tr>
<tr>
<td>MDCA 1309 - Anatomy and Physiology for Medical Assistants</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester - 11 SCH</th>
<th>Third Semester - 5 SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HITT 1345 - Health Care Delivery Systems</td>
<td>HITT 1266 - Practicum - Health Information/Medical Records Technology/Technician</td>
</tr>
<tr>
<td>HITT 1441 - Coding and Classification Systems</td>
<td>HITT 2335 - Coding &amp; Reimbursement Methodologies</td>
</tr>
<tr>
<td>HITT 1442 - Ambulatory Coding</td>
<td></td>
</tr>
</tbody>
</table>

### 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.
### 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.

### Career Opportunities
- Hospitals; Home Health; Clinics; Mobile Radiology; Physician Offices.

### Additional Educational Opportunities
- Students may pursue a Bachelor’s Degree in Radiology.
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
- SOCI 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

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.

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.

High School Endorsements

- Public Service

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.

Additional Education Opportunities

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

<table>
<thead>
<tr>
<th>First Semester - 15 SCH</th>
<th>Second Semester - 15 SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>COSC 1301 - Introduction to Computing</td>
<td>DRAM 1310 - Introduction to Theater</td>
</tr>
<tr>
<td>EDUC/PSYC 1300 - Learning Framework</td>
<td>ENGL 1302 - Composition II</td>
</tr>
<tr>
<td>ENGL 1301 - Composition I</td>
<td>HIST 1302 - United States History II</td>
</tr>
<tr>
<td>HIST 1301 - United States History I</td>
<td>PSYC 2301 - General Psychology</td>
</tr>
<tr>
<td>MATH 1342 - Elementary Statistical Methods</td>
<td>SPCH 1315 - Public Speaking</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Third Semester - 15 SCH</th>
<th>Fourth Semester - 15 SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1322 - Nutrition &amp; Diet Therapy</td>
<td>GOVT 2306 - Texas Government</td>
</tr>
<tr>
<td>GOVT 2305 - Federal Government</td>
<td>PHYS 1303 - Stars and Galaxies</td>
</tr>
<tr>
<td>HIST 2311 - Western Civilization</td>
<td>SOCI 1301 - Introduction to Sociology</td>
</tr>
<tr>
<td>Six hours of electives</td>
<td>Six hours of electives</td>
</tr>
</tbody>
</table>

** 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 baccalaureate degree.
## 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).

### 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; Historetechnologist; 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.
### 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.

### 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.

### High School Endorsements
- STEM

### 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*)

**First Semester - 17 SCH**

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>ENGL 1301</td>
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</tr>
<tr>
<td>MATH 2413</td>
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<td>HIST 1301</td>
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**Second Semester - 16 SCH**

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<thead>
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<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1302</td>
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<tr>
<td>MUSI 1306</td>
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<tr>
<td>HIST 1302</td>
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<tr>
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**Third Semester - 14 SCH**

<table>
<thead>
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<tbody>
<tr>
<td>MATH 2415</td>
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<tr>
<td>ECON 2301</td>
<td>Principles of Macroeconomics</td>
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<td>GOVT 2305</td>
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<tr>
<td>PHYS 2425</td>
<td>University Physics I</td>
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**Fourth Semester - 13 SCH**

<table>
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<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 2320</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>HIST 2321</td>
<td>World Civilization I</td>
</tr>
<tr>
<td>GOVT 2306</td>
<td>Texas Government</td>
</tr>
<tr>
<td>PHYS 2426</td>
<td>University Physics II</td>
</tr>
</tbody>
</table>

#### 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 inter-relationships, 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.

#### 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.

#### 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.

#### High School Endorsements

STEM

#### 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

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<td>HIST 1302 - United States History II</td>
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<td>HIST 1301 - United States History I</td>
<td>MATH 1314 - College Algebra</td>
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<td>GEOL 1403 - Physical Geology</td>
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<tr>
<td>EDUC/PSYC 1300 - Learning Framework</td>
<td>COSC 1301 - Introduction to Computing</td>
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<tr>
<td>CHEM 1411 - General Chemistry I</td>
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<tr>
<td>SOCI 1301 - Introduction to Sociology</td>
<td>HIST 2321 - World Civilizations I</td>
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<tr>
<td>GOVT 2305 - Federal Government</td>
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</tr>
<tr>
<td>BIOL 1407 - Biology for Science Majors II</td>
<td>PHYS 1401 - College Physics I</td>
</tr>
</tbody>
</table>

## 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.

## 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 / T echtonics) 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.

## 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.

## High School Endorsements

- STEM

## 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.
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.

 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.

 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.

 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

### 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 2417 - Calculus IV
- MUSI 2307 - Music Appreciation II
- 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.

### 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.

### 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.

### 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.
**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
- SOCI 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.

### 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.

### 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.
### 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
- SOCI 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 effective 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.

### 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.

### 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.
# Psychology

## AA (60 SCH*) *Semester Credit Hour*

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<th>Second Semester - 16 SCH</th>
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<tr>
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<td>PSYC 1100 - Learning Framework</td>
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<td>SPCH 1321 - Business and Professional Communication</td>
<td>DRAM 1310 - Introduction to Theater</td>
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<td>PSYC 2319 - Social Psychology</td>
</tr>
<tr>
<td>SPAN 2311 - Intermediate Spanish I</td>
<td>COMM 1307 - Introduction to Mass Communications</td>
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</table>

## 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.

## 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.

## 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.
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<td>MATH 1342 - Elementary Statistical Methods</td>
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<th>Third Semester - 15 SCH</th>
<th>Fourth Semester - 15 SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 1301 - Art Appreciation</td>
<td>COMM 1307 - Introduction to Mass Communications</td>
</tr>
<tr>
<td>GOVT 2305 - Federal Government</td>
<td>GOVT 2306 - Texas Government</td>
</tr>
<tr>
<td>SOCI 1306 - Social Problems</td>
<td>SPAN 2312 - Intermediate Spanish II</td>
</tr>
<tr>
<td>SPAN 2311 - Intermediate Spanish I</td>
<td>ENGL 2331 - World Literature</td>
</tr>
<tr>
<td>SPCH 1321 - Business and Professional Communication</td>
<td>PSYC 2301 - General Psychology</td>
</tr>
</tbody>
</table>

### 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.

### 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.

### 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.
First Semester - 15 SCH
- COSC 1301 - Introduction to Computing
- CRIJ 1301 - Introduction to Criminal Justice
- CRIJ 1307 - Crime in America
- ENGL 1301 - Composition I
- SOCI 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
- CJS A 2364 - Practicum - Criminal Justice/Safety Studies
- POFT 2312 - Business Correspondence & Communication
- COMM 1307 - Introduction to Mass Communications

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.

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.

High School Endorsements
- Public Service / Social & Behavioral Sciences

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.
## First Semester - 15 SCH
- COSC 1301 - Introduction to Computing
- CRIJ 1301 - Introduction to Criminal Justice
- SOCI 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
- MATH 1342 - Elementary Statistical Methods
- CRIJ 1310 - Fundamentals of Criminal Law

## 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.

### 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.
<table>
<thead>
<tr>
<th>First Semester - 15 SCH</th>
<th>Second Semester - 13 SCH</th>
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<tbody>
<tr>
<td>ENGL 1301 - Composition I</td>
<td>ENGL 1302 - Composition II</td>
</tr>
<tr>
<td>HIST 1301 - United States History I</td>
<td>HIST 1302 - United States History II</td>
</tr>
<tr>
<td>EDUC/PSYC 1300 - Learning Framework</td>
<td>GEOL 1401 - Earth Sciences for Non-Science Majors I</td>
</tr>
<tr>
<td>SPCH 1315 - Public Speaking</td>
<td>MATH 1314 - College Algebra</td>
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<tr>
<td>EDUC 1301 - Introduction to the Teaching Profession</td>
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<thead>
<tr>
<th>Third Semester - 16 SCH</th>
<th>Fourth Semester - 16 SCH</th>
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<tbody>
<tr>
<td>PSYC 2301 - General Psychology</td>
<td>EDUC 2301 - Introduction to Special Populations</td>
</tr>
<tr>
<td>GOVT 2305 - Federal Government</td>
<td>GOVT 2306 - Texas Government</td>
</tr>
<tr>
<td>MATH 1350 - Fundamentals of Mathematics I</td>
<td>MATH 1351 - Fundamentals of Mathematics II</td>
</tr>
<tr>
<td>ARTS 1301 - Art Appreciation</td>
<td>ENGL 2331 - World Literature</td>
</tr>
<tr>
<td>BIOL 1408 - Biology for Non-Science Majors I</td>
<td>BIOL 1409 - Biology for Non-Science Majors II</td>
</tr>
</tbody>
</table>

### 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.

### 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-Texarkana 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.

### 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.

### 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.
**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

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**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.

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**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.

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**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-Texarkana, 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 non-life and two life sciences.

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**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.

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**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.
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.

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 Officials; Exercise Physiologist; Fitness and Wellness Coordinators. **MS Minimum:** Physical Therapist; Recreational Therapist; Sports Management; College Coaching; Recreation and Fitness Studies Teachers (Postsecondary).
### 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).