PJC | PARIS JUNIOR COLLEGE
Greenville | Paris | Sulphur Springs

Degree Catalog and Course Descriptions 2026–2027

This catalog is published for the purpose of providing information about Paris Junior College degree programs and course descriptions. The Paris Junior College catalog is a student's official record of programs and courses. The catalog is updated annually by the curriculum committee, each fall semester the new catalog goes into effect.

Although this catalog was prepared using the best information available at the time, all information is subject to change without notice or obligation. The college claims no responsibility for errors that may have occurred during the production of this catalog. Visit the Paris Junior College website for complete information including policies, procedures, tuition and fees, student rights, and compliance statements.

Paris Junior College (PJC) reserves the right, through action of its Board of Regents, to modify, amend, or change any policy, regulation, procedure, program, or fee described herein or on the website, as required to comply with applicable federal and state laws, Texas Higher Education Coordinating Board rules, accreditation standards, or institutional needs.

This catalog is for informational purposes only and does not constitute a contract, expressed or implied, between Paris Junior College and any student or other party. The information listed in this catalog is intended as a record of PJC's degree requirements and course descriptions. In the event of a conflict between this catalog and any other College publication, this catalog shall govern.

Effective Term: This catalog is effective for students enrolling during the 2026–2027 academic year.

The catalog is designed to make planning and scheduling a degree program as simple as possible. Students are encouraged to seek help from the Student Success coaches and academic faculty to ensure they are on track for graduation. Faculty and Student Success Coaches provide academic advisement; however, each student at Paris Junior College is ultimately responsible for understanding and fulfilling all degree requirements. It is important that students follow the catalog they have declared in the student information system and it is reflected in the advising worksheet.

Contents

About Paris Junior College

Institutional Overview

Paris Junior College was founded in 1924 and has a main Campus located in Paris, Texas with additional centers in Greenville and Sulphur Springs.

Mission

Through a culture of excellence and student support, Paris Junior College delivers affordable, high-quality education and workforce training that transforms lives, builds meaningful careers, and empowers students and communities to thrive.

Vision

Paris Junior College sets the standard for excellence in education and community impact, where every student succeeds and where every partnership strengthens our region.

Core Values

At Paris Junior College, we are defined by six core values that guide our work and inspire our future.
Together, we can…

- act with **Integrity**, demonstrating honesty, accountability, and transparency in all we do.
- be **Mission-Driven**, placing student success at the heart of our work, empowering every student to achieve their goals and realize their potential.
- build strong **Partnerships**, strengthening our community by cultivating collaboration and mutual respect.
- strive for **Achievement**, committing to the highest standards of excellence in education, leadership, and service.
- embrace **Creativity**, fostering innovation and adaptability in a constantly changing world.
- foster **Trust**, building a culture of support and belonging where everyone contributes to shared success.

Together, we can make an IMPACT – creating a vibrant community rooted in these core values, where every individual thrives and contributes to our collective future.

Equal Opportunity & Non-Discrimination

Paris Junior College is an equal opportunity institution and does not discriminate on the basis of race, color, national origin, sex, gender identity or expression, sexual orientation, age, disability, religion, veteran status, or any other status protected by law in its educational programs, activities, admissions, or employment practices. See website for additional information.

Accreditation

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

Program-Specific Accreditations & Affiliations

Licensed Vocational Nursing Program

The Licensed Vocational Nursing program is approved by the Texas Board of Nursing (BON), George H.W. Bush State Office Building, 1801 Congress Avenue, Suite 10-200, Austin, Texas 78701, (512) 305-7400; www.bon.texas.gov to visit the website.

LVN-to-RN Program

The LVN-to-RN Associate Degree Nursing program is in Paris, Texas, and is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road NE, Suite 1400, Atlanta, Georgia 30326, 404-975-5000.

The ACEN Board of Commissioners for the Associate Degree Nursing Program has a status of Continuing Accreditation and will have a site visit in 2027. The LVN-to-RN Associate Degree Nursing program is approved by the Texas Board of Nursing (BON), George H.W. Bush State Office Building, 1801 Congress Avenue, Suite 10-200, Austin, Texas 78701, (512) 305-7400; www.bon.texas.gov to visit the website.

Surgical Technology Program

The Surgical Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 9355 113th St. N, #7709, Seminole, FL 33775, 727-210-2350, www.caahep.org, and by the Accreditation Review Committee in Surgical Technology & Surgical Assisting (ARC-STSA), located at 19751 East Mainstreet, Suite #339. Parker, Colorado 80138, 303-694-9262, www.arcstsa.org.

Radiology Technology Program

The Radiology Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 North Wacker Drive, Suite 2850, Chicago, Illinois 60606-3182, 312-704-5300, www.jrcert.org.

Emergency Medical Technician-Paramedic Program

The Emergency Medical Technician-Paramedic program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org), upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (www.coaemsp.org). The Commission may be reached at: Commission on Accreditation of Allied Health Education Programs, 9355 113th St. N, #7709, Seminole, FL 33775, 727-210-2350, www.caahep.org.

Academic Pathways & Degree Plans

Academic Degree Plans Overview

Paris Junior College's goal is to help students finish certificates or degrees with fewer excess hours and better preparation for employment or transfer to a four-year institution of higher education.

The Degree Plans are based on coherent and easy-to-follow college-level programs of study that are aligned with requirements for success in employment and/or the next stage of education. Students first choose one of seven Pathways (meta-majors) that represent their interests:

- Arts & Humanities
- Business
- Public Services
- Health Careers
- Industry & Trades
- Social & Behavioral Sciences
- STEM

Then, the student chooses a Degree Plan within that Pathway (meta-major) aligning with their goals, interests, and aptitudes.

Each Degree Plan specifies which courses the student should take and in what order. PJC's Degree Plans are designed to help students stay on track regarding their coursework and to master knowledge and skills that will equip them to enter the labor market successfully or to pursue further education with seamless transfer of credits.

Academic Transfer

Academic Transfer at Paris Junior College include coursework in English, fine arts, social sciences, natural sciences, mathematics, and kinesiology (physical education), as well as learning skills and

teacher education. Academic Transfer is supported by library and instructional support services that serve all areas of the College.

The objectives of Academic Transfer include fostering an appreciation of the creative process, the ability to think critically and communicate effectively, a commitment to lifelong learning, and a strong identification with truth and reason.

Students selecting degree plans (majors) within Academic Transfer are encouraged to consult with a Student Success Coach. During advising sessions, students develop a degree plan outlining required core curriculum courses and recommended courses within their intended field of study. Regular consultation with a Student Success Coach helps ensure that coursework applies toward a Paris Junior College Associate of Arts (AA), Associate of Science (AS), or Associate of Arts in Teaching (AAT) degree, as well as transfer requirements at the student's intended baccalaureate institution.

Because many students enrolled in Academic Transfer courses plan to continue their education at a university, a primary goal of the College is to ensure course transferability. However, due to variation in degree requirements among four-year institutions, students are responsible for confirming transfer requirements with both their university of choice and a Student Success Coach at PJC.

Academic Transfer and General Education

Academic Transfer additionally provides general education coursework for students enrolled in technical or workforce education programs.

Students planning to pursue a baccalaureate or advanced degree may complete the Texas Core Curriculum, which provides a strong foundation in the arts and sciences. The 42-semester-credit-hour core curriculum is guaranteed to transfer and satisfy the lower-division core requirements at all state-supported colleges and universities in Texas.

Texas Core Curriculum (42 SCH)

Paris Junior College adheres to state and institutional policies designed to facilitate the transfer of academic credit. These include a state-mandated block core curriculum, participation in the Texas Common Course Numbering System, and the statewide Guarantee for Transfer program.

The Texas Education Code, as established by Senate Bill 148, requires all public colleges and universities in Texas to maintain a core curriculum. The core curriculum is defined as:

"The curriculum in the liberal arts, humanities, sciences, and political, social, and cultural history that all undergraduate students of a particular Texas institution of higher education are required to complete before receiving an associate or bachelor's degree."

Every public institution in Texas has a core curriculum designed to provide a strong academic foundation and to ensure the smooth and seamless transfer of coursework among Texas institutions of higher education.

Core Curriculum Objectives

Courses within the Texas Core Curriculum are designed to address the following core objectives:

- Critical Thinking Skills
- Communication Skills
- Empirical and Quantitative Skills
- Teamwork
- Personal Responsibility
- Social Responsibility

The core curriculum is built upon essential intellectual and foundational competencies, including reading, writing, speaking, listening, critical thinking, and computer literacy. These competencies—along with teamwork, communication, quantitative reasoning, and social and personal responsibility—are fundamental to success in any academic discipline and professional field. While students may enter college with some experience in these areas, continued instruction and practice are necessary to meet college-level expectations and prepare for future academic and career success.

Core Curriculum Completion and Advising

Paris Junior College designates all completed core curriculum courses on the official PJC transcript. When a student has satisfied all required component areas, the transcript will reflect the notation "Core Curriculum Completed."

Students are strongly encouraged to meet with a Student Success Coach and follow the appropriate Degree Plan to ensure correct course selection for their Associate of Arts (AA) or Associate of Science (AS) degree, as well as alignment with the requirements of their intended transfer college or university.

To graduate with an associate degree in the State of Texas, students must complete a minimum of 60 semester credit hours and earn a cumulative grade point average (GPA) of 2.0 or higher.

PJC's 42-credit-hour Texas Core Curriculum is detailed below, along with additional graduation requirements and elective hours. Because the core curriculum is fully embedded within each academic transfer degree plan, students should consult their specific Degree Plan to determine the appropriate courses to complete.

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(10) COMMUNICATION (2 courses) **6 Credit Hours**

ENGL 1301 Composition I

ENGL 1302 Composition II

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(20) MATHEMATICS (1 course) **3 Credit Hours**

Recommended for STEM majors:

MATH 1314 College Algebra

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

Recommended for non-STEM majors:

MATH 1324 Mathematics for Business & Social Sciences

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Methods

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(30) LIFE AND PHYSICAL SCIENCES (2 courses) **6 Credit Hours**

Lab hours count toward hours required in "Additional Core Curriculum Requirements, Part I."

Recommended for STEM majors:

BIOL 1406 Biology for Science Majors I

BIOL 1407 Biology for Science Majors II

BIOL 2401 Anatomy & Physiology I

BIOL 2402 Anatomy & Physiology II

CHEM 1411 General Chemistry I

CHEM 1412 General Chemistry II

GEOL 1403 Physical Geology

GEOL 1404 Historical Geology

PHYS 1401 College Physics I

PHYS 1402 College Physics II

PHYS 2425 University Physics I

PHYS 2426 University Physics II

Recommended for non-STEM majors:

BIOL 1408 Biology for Non-Science Majors I

BIOL 1409 Biology for Non-Science Majors II

BIOL 1322 Nutrition & Diet Therapy

BIOL 2306 Environmental Biology

BIOL 2420 Microbiology for Non-Science Majors

CHEM 1405 Introductory Chemistry I

GEOL 1401 Earth Sciences for Non-Science Majors I

GEOL 1402 Earth Sciences for Non-Science Majors II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1405 Elementary Physics I

Recommended for Allied Health Majors:

BIOL 1322 Nutrition & Diet Therapy

BIOL 2401 Anatomy & Physiology I

BIOL 2402 Anatomy & Physiology II

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(40) LANGUAGE, PHILOSOPHY and CULTURE (1 course) 3 Credit Hours

COMM 1307 Introduction to Mass Communications

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2331 World Literature

HIST 2311 Western Civilization I

HIST 2312 Western Civilization II

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

SPAN 2311 Intermediate Spanish I

SPAN 2312 Intermediate Spanish II

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(50) CREATIVE ARTS (1 course) 3 Credit Hours

ARTS 1301 Art Appreciation

DRAM 1310 Introduction to Theater

DRAM 2366 Film Appreciation

MUSI 1306 Music Appreciation

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(60) AMERICAN HISTORY (2 courses) **6 Credit Hours**

HIST 1301 United States History I

HIST 1302 United States History II

HIST 2301 Texas History

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(70) GOVERNMENT / POLITICAL SCIENCE (2 courses) **6 Credit Hours**

GOVT 2305 Federal Government

GOVT 2306 Texas Government

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(80) SOCIAL & BEHAVIORAL SCIENCES (1 course) **3 Credit Hours**

AGRI 2317 Introduction to Agriculture Economics

CRIJ 1301 Introduction to Criminal Justice

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth and Development

PSYC 2315 Psychology of Adjustment

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems

(90A) ADDITIONAL CORE REQUIREMENTS (2 courses) **6 Credit Hours**

Part 1: Take 3-6 Credit Hours from Part 1.

Note: Lab hours associated with courses taken to fulfill the Life and Physical Sciences core curriculum component (see previous list) will be counted toward the additional 3-6 credit hours required here under Part I.

Communications:

SPCH 1315 Public Speaking

SPCH 1321 Business and Professional Communications

Mathematics:

MATH 1314 College Algebra

MATH 1324 Mathematics for Business & Social Sciences

MATH 1325 Calculus for Business & Social Science

MATH 1332 Contemporary Mathematics I

MATH 1342 Elementary Statistical Mathematics

MATH 1350 Mathematics for Teachers (Fundamentals of Mathematics 1)

MATH 2312 Pre-Calculus Math

MATH 2413 Calculus I

MATH 2414 Calculus II

Life and Physical Sciences:

BIOL 1322 Nutrition & Diet Therapy

BIOL 1408 Biology for Non-Science Majors

BIOL 1409 Biology for Non-Science Majors II

BIOL 2306 Environmental Biology

BIOL 2401 Anatomy & Physiology I

BIOL 2402 Anatomy & Physiology II

BIOL 2420 Microbiology for Non-Science Majors

CHEM 1405 Introductory Chemistry I

GEOL 1401 Earth Sciences for Non-Science Majors I

GEOL 1402 Earth Sciences for Non-Science Majors II

PHYS 1303 Stars and Galaxies

PHYS 1304 Solar System

PHYS 1405 Elementary Physics I

PHYS 2425 University Physics I

PHYS 2426 University Physics II

(90B) ADDITIONAL CORE CURRICULUM REQUIREMENTS

Part 2: 0-3 Credit Hours from Part 2.

Language, Philosophy, and Culture:

COMM 1307 Introduction to Mass Communication

ENGL 2322 British Literature I

ENGL 2323 British Literature II

ENGL 2327 American Literature I

ENGL 2328 American Literature II

ENGL 2331 World Literature

HIST 2311 Western Civilization I

HIST 2312 Western Civilization II

HIST 2321 World Civilizations I

HIST 2322 World Civilizations II

SPAN 2311 Intermediate Spanish I

SPAN 2312 Intermediate Spanish II

Social and Behavioral Sciences:

AGRI 2317 Introduction to Agricultural Economics

CRIJ 1301 Introduction to Criminal Justice

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

PSYC 2301 General Psychology

PSYC 2314 Lifespan Growth and Development

PSYC 2315 Psychology of Adjustment

SOCI 1301 Introductory Sociology

SOCI 1306 Social Problems Learning Framework:

EDUC 1100 Learning Framework

EDUC 1200 Learning Framework

EDUC 1300 Learning Framework

PSYC 1100 Learning Framework

PSYC 1200 Learning Framework

PSYC 1300 Learning Framework

Computer Literacy

BCIS 1305 Business Computer Applications

COSC 1301 Introduction to Computing

42 Total Credit Hours

Field of Study

Mandated by Senate Bill 148, the Fields of Study (FOS) curricula are designed to facilitate the transferability of lower-division coursework among Texas public colleges and universities. Senate Bill 148 defines a Field of Study as:

“A set of courses that will satisfy the lower-division requirements for a bachelor’s degree in a specific academic major at a general academic teaching institution.”

Courses completed as part of an approved Field of Study transfer as a block and must be applied toward the corresponding bachelor’s degree major at the receiving institution. Texas public colleges and universities may not require transfer students to repeat courses with content equivalent to completed Field of Study coursework.

Paris Junior College offers Fields of Study in the following academic areas:

- (Accounting) Business Administration
- Criminal Justice

Students should consult the appropriate Degree Plan and work with a Student Success Coach for guidance in selecting Field of Study coursework that aligns with their intended transfer institution and major.

Multiple Associate Degrees

Students who have earned an associate degree from Paris Junior College or another regionally accredited institution may pursue an additional associate degree in a different program of study. Prior to beginning a second associate degree, students are strongly encouraged to consult with Success Coaches and financial aid personnel to ensure appropriate planning and eligibility.

To be awarded an additional associate degree, students must complete a minimum of 15 semester credit hours beyond the requirements of the first associate degree. These credits must be:

- Applicable to the requirements of the subsequent degree program, and
- Distinct from coursework previously applied toward a degree already awarded.

Students must also satisfy all program and graduation requirements for the additional associate degree.

Grading System

The College District shall be on a four-point grading system. Grades and grade points for each semester hour of credit are as follows:

Standard Academic Grade Scale

A = 90% – 100%
B = 80% - 89%
C = 70% - 79%
D = 60% - 69%
F = < 59%

Health Occupations Didactic Grade Scale

A = 90% – 100%
B = 81% - 89%
C = 75% - 80%
D = 70% - 74%
F = < 70%

Grade scales may be point based or percentage based following the calculation above.

Health Occupation programs that fall under licensing, regulatory, or program specific accreditation standards may follow either the Standard Academic Grade Scale or the Health Occupations Didactic Grade Scale. Clinical/Practicum course grading scales will be specific to the program and/or course, refer to the syllabus for grading details.

Developmental and Non-Credit Grading Scale

Developmental and non-credit programs can adopt the standard academic grade scale or use the Pass / Fail (P/F) grade scale. If the P/F scale is used, Paris Junior College considers Pass to be equivalent to a “B” or 80% for comparison or Grade Point Average (GPA) calculations. The rationality comes from licensing body requirements where a minimum level of competence is expected. An example is with the Commercial Drivers License program, regulated by the Department of Transportation (DOT) and Federal Motor Carrier Safety Administration (FMCSA), that requires students to pass all written knowledge exams at a level of 80% or higher.

Grade Points for GPA Calculation

A = 4
B = 3
C = 2
D = 1
F = 0
W = 0
X = 0

Grades of "W" and "X" are not included in the computation of cumulative grade point averages (GPAs). A grade of "W" indicates that the student withdrew from class. A grade of "X" indicates that coursework was incomplete at the end of the semester. Incomplete coursework must be completed by the end of the next long semester, or the grade of "X" shall be changed to a grade of "F."

Academic Transfer Programs (AA / AS / AAT)

Academic Transfer programs are designed for students planning to continue their education at Texas public universities or other four-year institutions. These degrees align with the Texas Core Curriculum (42 SCH) and applicable Fields of Study, supporting efficient transfer.

Associate of Arts (AA)

Credential & Length: Associate of Arts, 60 SCH

Overview: Broad liberal arts curriculum emphasizing communication, humanities, social sciences, and elective concentrations for transfer.

Common Transfer Pathways:

- Multidisciplinary Studies (AA)
- Art Transfer Pathway (AA)
- Drama Transfer Pathway (AA)
- English Transfer Pathway (AA)
- Music Transfer Pathway (AA)
- Political Science Transfer Pathway (AA)
- Sociology Transfer Pathway (AA)

Multidisciplinary Studies AA

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: MDAA

First Year

First Semester (15 SCH)

- ENGL 1301 – Composition I *(Core 10)*
- 3 SCH Core History Elective *(60)*
- 3 SCH Core Mathematics Elective *(20)*
- 6 SCH Electives

Second Semester (15 SCH)

- ENGL 1302 – Composition II *(Core 10)*
- 3 SCH Core History Elective *(60)*
- 3 SCH Core Social/Behavioral Science Elective *(80)*
- 3 SCH Core Visual/Performing Arts Elective *(50)*
- 3 SCH Core Language, Philosophy & Culture (LPC) Elective *(40)*

Second Year

Third Semester (15 SCH)

- GOVT 2305 – Federal Government *(70)*
- 3 SCH Core Science Elective *(30)*
- 3 SCH Core Component Area Option *(90A)*
- 6 SCH Electives

Fourth Semester (15 SCH)

- GOVT 2306 – Texas Government *(70)*
- 3 SCH Core Science Elective *(30)*
- 3 SCH Core Component Area Option *(90B)*
- 6 SCH Electives

Approved Core Elective Options

Mathematics (20)
MATH 1314, 1324, 1332, 1342, 2312, 2413

Science (30)
BIOL 1322, 1406, 1407, 1408, 1409, 2306, 2401, 2402, CHEM 1411, 1412, GEOL 1403, 1404, PHYS 1303, 1304, 1401, 1402, 2425, 2426

Language, Philosophy & Culture (40)
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322, SPAN 2311, 2312

Visual/Performing Arts (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

History (60)
HIST 1301, 1302, 2301

Social/Behavioral Sciences (80)
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306

Component Area Option – 90A
SPCH 1315, 1321, MATH 1314, 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Component Area Option – 90B
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322, SPAN 2311, 2312

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

Art Transfer Plan

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: ARTS

First Year

First Semester (15 SCH)

- ARTS 1311 – Design I
- ARTS 1316 – Drawing I
- ENGL 1301 – Composition I *(Core 10)*
- EDUC/PSYC 1300 – Learning Framework *(Core 90B)*
- 3 SCH Core History Elective *(60)*

Second Semester (15 SCH)

- ARTS 1312 – Design II
- ARTS 2323 – Life Drawing or ARTS 1317 – Drawing II
- ENGL 1302 – Composition II *(Core 10)*
- 3 SCH Core History Elective *(60)*
- 3 SCH Core Mathematics Elective *(20)*

Second Year

Third Semester (15 SCH)

- GOVT 2305 – Federal Government *(Core 70)*
- 3 SCH Core Science Elective *(30)*
- 3 SCH Core Social/Behavioral Science Elective *(80)*
- 3 SCH Core Language, Philosophy & Culture (LPC) Elective *(40)*
- 3 SCH Core Visual/Performing Arts Elective *(50)*

Fourth Semester (15 SCH)

- GOVT 2306 – Texas Government *(Core 70)*
- ARTS 2348 – Digital Media
- ARTS 2346 – Ceramics
- 3 SCH Core Science Elective *(30)*

- 3 SCH Core Component Area Option *(90A)*

Approved Core Elective Options

Mathematics (20)
MATH 1314, 1324, 1332, 1342, 2312, 2413

Science (30)
BIOL 1322, 1406, 1407, 1408, 1409, 2306, 2401, 2402, CHEM 1411, 1412, GEOL 1403, 1404, PHYS 1303, 1304, 1401, 1402, 2425, 2426

Language, Philosophy & Culture (40)
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Visual/Performing Arts (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

History (60)
HIST 1301, 1302, 2301

Social/Behavioral Sciences (80)
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306

Component Area Option – 90A
SPCH 1315, 1321, MATH 1314, 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Advising Note

This degree plan is a suggested transfer pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major and portfolio requirements.

Drama Transfer Plan

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: DRAM

First Year

First Semester (15 SCH)

- DRAM 1351 – Acting I
- ENGL 1301 – Composition I *(Core 10)*
- EDUC/PSYC 1300 – Learning Framework *(Core 90B)*
- 3 SCH Core History Elective *(60)*
- 3 SCH Core Component Area Option *(90A)*

Second Semester (13 SCH)

- DRAM 1120 – Theater Practicum I
- ENGL 1302 – Composition II *(Core 10)*
- 3 SCH Core History Elective *(60)*
- 3 SCH Core Mathematics Elective *(20)*
- 3 SCH Core Visual/Performing Arts Elective *(50)*

Second Year

Third Semester (16 SCH)

- DRAM 1121 – Theater Practicum II
- DRAM 1330 – Stagecraft I
- DRAM 2366 – Film Appreciation
- GOVT 2305 – Federal Government *(Core 70)*
- 3 SCH Core Social/Behavioral Science Elective *(80)*
- 3 SCH Core Science Elective *(30)*

Fourth Semester (13 SCH)

- DRAM 1352 – Acting II
- DRAM 2331 – Stagecraft II
- DRAM 2120 – Theater Practicum III
- GOVT 2306 – Texas Government *(Core 70)*
- 3 SCH Core Language, Philosophy & Culture (LPC) Elective *(40)*
- 3 SCH Core Science Elective *(30)*

Approved Core Elective Options

Mathematics (20)
MATH 1314, 1324, 1332, 1342, 2312, 2413

Science (30)
BIOL 1322, 1406, 1407, 1408, 1409, 2306, 2401, 2402, CHEM 1411, 1412, GEOL 1403, 1404, PHYS 1303, 1304, 1401, 1402, 2425, 2426

Language, Philosophy & Culture (40)
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Visual/Performing Arts (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

History (60)
HIST 1301, 1302, 2301

Social/Behavioral Sciences (80)
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306

Component Area Option – 90A
SPCH 1315, 1321, MATH 1314, 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Advising Note

This degree plan is a suggested transfer pathway. Due to variation in university theatre program requirements (performance, technical theatre, or design emphasis), students should work closely with a Student Success Coach and consult their intended transfer institution when selecting electives.

English Transfer Plan

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: ENGL

First Year

First Semester (15 SCH)

- ENGL 1301 – Composition I *(Core 10)*
- HIST 1301 – United States History I *(Core 60)*
- MATH 1332 – Contemporary Mathematics *(Core 20)*
- EDUC/PSYC 1300 – Learning Framework
- COSC 1301 – Introduction to Computing

Second Semester (15 SCH)

- ENGL 1302 – Composition II *(Core 10)*
- HIST 1302 – United States History II *(Core 60)*
- PSYC 2301 – General Psychology *(Core 80)*
- SPCH 1315 – Public Speaking *(Core 90)*
- 3 SCH Core Visual/Performing Arts Elective *(50)*

Second Year

Third Semester (15 SCH)

- ENGL 2322 – British Literature I
- ENGL 2331 – World Literature
- GOVT 2305 – Federal Government *(Core 70)*
- SPAN 2311 – Intermediate Spanish I *(Core 40)*
- PHYS 1303 – Stars and Galaxies *(Core 30)*

Fourth Semester (15 SCH)

- GOVT 2306 – Texas Government *(Core 70)*
- SPAN 2312 – Intermediate Spanish II *(Core 90)*
- HIST 2321 – World Civilizations I
- PHYS 1304 – Solar System *(Core 30)*
- 3 SCH Core Language, Philosophy & Culture (LPC) Elective *(40)*

Approved Core Elective Options

Language, Philosophy & Culture (40)
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Visual/Performing Arts (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Note

This degree plan is a suggested transfer pathway for students pursuing a bachelor's degree in English or related fields. Students should consult with a Student Success Coach and their intended transfer institution to confirm literature, language, and elective requirements.

Music Transfer Plan

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: MUSI

First Year

First Semester (15 SCH)

- 3 SCH Core Mathematics Elective *(20)*
- EDUC/PSYC 1300 – Learning Framework *(Core 90B)*
- 3 SCH Core History Elective *(60)*
- MUEN 1141 – Chorale
- MUAP 12** – Individual Instruction
- MUSI 1311 – Music Theory I

Second Semester (15 SCH)

- ENGL 1301 – Composition I *(Core 10)*
- 3 SCH Core History Elective *(60)*
- 3 SCH Core Social/Behavioral Science Elective *(80)*
- 3 SCH Core Visual/Performing Arts Elective *(50)*
- MUEN 1141 – Chorale
- MUAP 12** – Individual Instruction

Second Year

Third Semester (15 SCH)

- GOVT 2305 – Federal Government *(Core 70)*
- ENGL 1302 – Composition II *(Core 10)*
- 3 SCH Core Science Elective *(30)*
- 3 SCH Core Component Area Option *(90A)*

- MUEN 1141 – Chorale
- MUAP 12** – Individual Instruction

Fourth Semester (15 SCH)

- GOVT 2306 – Texas Government *(Core 70)*
- MUSI 1312 – Music Theory II
- 3 SCH Core Science Elective *(30)*
- 3 SCH Core Language, Philosophy & Culture (LPC) Elective *(40)*
- MUEN 1141 – Chorale
- MUAP 12** – Individual Instruction

Approved Core Elective Options

Mathematics (20)
MATH 1314, 1324, 1332, 1342, 2312, 2413

Science (30)
BIOL 1322, 1406, 1407, 1408, 1409, 2306, 2401, 2402, CHEM 1411, 1412, GEOL 1403, 1404, PHYS 1303, 1304, 1401, 1402, 2425, 2426

Language, Philosophy & Culture (40)
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Visual/Performing Arts (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

History (60)
HIST 1301, 1302, 2301

Social/Behavioral Sciences (80)
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306

Component Area Option – 90A
SPCH 1315, 1321, MATH 1314, 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Advising Note

This degree plan is a suggested transfer pathway for students planning to pursue a bachelor's degree in music. Because university requirements vary by emphasis (performance, music education, theory/composition), students should work closely with a

Student Success Coach, applied music faculty, and their intended transfer institution when selecting courses.

Political Science / History Transfer Plan

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: POLS

First Year

First Semester – 14 SCH

- ENGL 1301 – Composition I (10)
- HIST 1301 – United States History I (60)
- SOCI 1301 – Introduction to Sociology
- EDUC/PSYC 1100 – Learning Framework
- GEOL 1401 – Earth Sciences for Non-Science Majors I (30)

Second Semester – 16 SCH

- ENGL 1302 – Composition II (10)
- HIST 1302 – United States History II (60)
- MATH 1342 – Elementary Statistical Methods (20)
- Visual Arts/Performing Arts Elective – 3 SCH (50)
- GEOL 1402 – Earth Sciences for Non-Science Majors II (30)

Second Year

Third Semester – 15 SCH

- PSYC 2301 – General Psychology (80)
- GOVT 2305 – Federal Government (70)
- SOCI 1306 – Social Problems
- SPAN 2311 – Intermediate Spanish I (40)
- SPCH 1321 – Business and Professional Communication (90)

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (70)
- SPAN 2312 – Intermediate Spanish II (90)
- ENGL 2331 – World Literature
- PSYC 2319 – Social Psychology (80)
- BUSI 2301 – Business Law*

* Students intending to transfer into a History degree are required to complete HIST 2301 – Texas History in place of BUSI 2301.

Performing Arts / Visual Arts Elective Options (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Note

This degree plan is a suggested transfer pathway for students planning to pursue a bachelor's degree in political science or history. Because university requirements vary by emphasis students should work closely with a Student Success Coach, faculty, and their intended transfer institution when selecting courses.

Sociology Transfer Plan

Associate of Arts (AA) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: SOCI

First Year

First Semester (14 SCH)

- ENGL 1301 – Composition I *(Core 10)*
- HIST 1301 – United States History I *(Core 60)*
- SOCI 1301 – Introduction to Sociology
- PSYC 1100 – Learning Framework
- BIOL 1408 – Biology for Non-Science Majors I *(Core 30)*

Second Semester (16 SCH)

- ENGL 1302 – Composition II *(Core 10)*
- HIST 1302 – United States History II *(Core 60)*
- MATH 1342 – Elementary Statistical Methods *(Core 20)*
- BIOL 1409 – Biology for Non-Science Majors II *(Core 30)*
- 3 SCH Core Visual/Performing Arts Elective *(50)*

Second Year

Third Semester (15 SCH)

- PSYC 2301 – General Psychology *(Core 80)*
- GOVT 2305 – Federal Government *(Core 70)*
- SOCI 1306 – Social Problems
- SPAN 2311 – Intermediate Spanish I *(Core 40)*
- SPCH 1321 – Business and Professional Communication *(Core 10)*

Fourth Semester (15 SCH)

- GOVT 2306 – Texas Government *(Core 70)*
- PSYC 2319 – Social Psychology *(Core 80)*
- ENGL 2331 – World Literature
- SPAN 2312 – Intermediate Spanish II *(Core 90)*
- 3 SCH Core Language, Philosophy & Culture (LPC) Elective *(40)*

Approved Core Elective Options

Language, Philosophy & Culture (40)
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Visual/Performing Arts (50)
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Note

This degree plan is a suggested transfer pathway for students planning to pursue a bachelor's degree in sociology or related social science fields. Students should consult with a Student Success Coach and their intended transfer institution to ensure alignment with upper-division major requirements.

Associate of Science (AS)

Credential & Length: Associate of Science, 60 SCH

Overview: Science- and math-intensive curriculum intended for STEM and science majors.

Common Transfer Pathways:

- Accounting/Business Administration Transfer (AS)
- Multidisciplinary Studies (AS)
- Agriculture Transfer Pathway (AS)
- Biology Transfer Pathway (AS)

- Criminal Justice Transfer Pathway (AS)
- Kinesiology Transfer Pathway (AS)
- Psychology Transfer Pathway (AS)
- Chemistry Transfer (AS)
- Computer Science Transfer (AS)
- Engineering, Mathematics & Physics Transfer (AS)

Accounting / Business Administration (AS)

Business Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours
Suggested Course of Study for University Transfer Students
CIP Code: 52.0301
Program Code: ACCT

The Accounting / Business Administration program is designed to prepare students for transfer to a four-year university as a business major.
The program provides a foundation in mathematics, economics, accounting, and business principles. Graduates are prepared for junior- and senior-level coursework in accounting, finance, management, marketing, and related business fields.

Suggested Course of Study

First Year

First Semester – 15 SCH

- BCIS 1305 – Business Computer Applications*
- ENGL 1301 – Composition I (Core 10)
- HIST 1301 – United States History I (Core 60)
- MATH 1324 – Mathematics for Business & Social Science
- BUSI 1301 – Business Principles*

Second Semester – 15 SCH

- ENGL 1302 – Composition II (Core 10)
- HIST 1302 – United States History II (Core 60)
- MATH 1325 – Calculus for Business & Social Science*
- SPCH 1321 – Business & Professional Communication (Core 90)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Year

Third Semester – 15 SCH

- ACCT 2301 – Principles of Financial Accounting*
- ECON 2301 – Principles of Macroeconomics* (Core 80)
- BUSI 2301 – Business Law
- BIOL 1322 – Nutrition & Diet Therapy (Core 30)
- GOVT 2305 – Federal Government (Core 70)

Fourth Semester – 15 SCH

- ACCT 2302 – Principles of Managerial Accounting*
- ECON 2302 – Principles of Microeconomics* (Core 90)
- GOVT 2306 – Texas Government (Core 70)
- PHYS 1303 – Stars and Galaxies (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- Some universities require Statistics (MATH 1342) in addition to or instead of business calculus — advisors should confirm early.
- Students pursuing Accounting should verify whether ACCT 2301/2302 GPA thresholds apply for upper-division admission.
- This is a transfer-only degree and is not intended for immediate workforce entry.

Business Field of Study (FOS) Completion Note: *A student's transcript will indicate the Business Field of Study has been completed upon successful completion of these courses plus an additional 6 SCH that align with the chosen transfer institution.

Multidisciplinary Studies AS

Associate of Science (AS) – 60 Semester Credit Hours

University Transfer Degree
CIP Code: 24.0102
Program Code: MDAS

First Year

First Semester – 15 SCH

- ENGL 1301 – Composition I (Core 10)
- 3 SCH Core Mathematics Elective (Core 20)
- 3 SCH Core History Elective (Core 60)
- 6 SCH Electives

Second Semester – 15 SCH

- ENGL 1302 – Composition II (Core 10)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Social/Behavioral Science Elective (Core 80)
- 3 SCH Core 90 Elective (Core 90A)

Second Year

Third Semester – 15 SCH

- GOVT 2305 – Federal Government (Core 70)
- 3 SCH Core Life & Physical Sciences Elective (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- 6 SCH Electives

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (Core 70)
- 3 SCH Core Life & Physical Sciences Elective (Core 30)
- 3 SCH Core 90 Elective (Core 90A or 90B)
- 6 SCH Electives

Approved Elective Lists (by Core Area)

Core 20 – Mathematics
MATH 1314, 1324, 1332, 1342, 2312, 2413

Core 30 – Life & Physical Sciences
BIOL 1406, 1407, 1408, 1409, 2401, 2402, 1322, 2306, CHEM 1411, 1412, GEOL 1403, 1404, PHYS 1401, 1402, 2425, 2426, 1303, 1304

Core 40 – Language, Philosophy & Culture / Humanities
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322, SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Core 80 – Social & Behavioral Sciences
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306

Core 90A – Component Area Option
SPCH 1315, 1321, MATH 1314, 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, EDUC 1100, 1200, 1300, SOCI 1301, 1306, BCIS 1305, COSC 1301

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

Agriculture Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: AGRI

First Year

First Semester – 16 SCH

- AGRI 1131 – The Agricultural Industry
- AGRI 1329 – Principles of Food Science
- ENGL 1301 – Composition I (Core 10)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Semester – 16 SCH

- AGRI 1419 – Introductory Animal Science
- ENGL 1302 – Composition II (Core 10)
- MATH 1314 – College Algebra (Core 20)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Component Area Option Elective (Core 90B)

Second Year

Third Semester – 13 SCH

- AGRI 2317 – Introduction to Agricultural Economics (Core 80)
- CHEM 1411 – General Chemistry I (Core 30)
- GOVT 2305 – Federal Government (Core 70)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Fourth Semester – 15 SCH

- AGRI 1407 – Agronomy
- CHEM 1412 – General Chemistry II (Core 30)
- BIOL 1407 – Biology for Science Majors II (Core 90A)
- GOVT 2306 – Texas Government (Core 70)

Approved Elective Lists (as referenced)

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Core 90B – Component Area Option

CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, EDUC 1300, SOCI 1301, 1306
BCIS 1305, COSC 1301

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

Biology Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: BIOL

This degree prepares students for transfer into Biology, Pre-Dental, Pre-Medical, or Pre-Veterinary Medicine bachelor's degree programs.

First Year

First Semester – 17 SCH

- ENGL 1301 – Composition I (Core 10)
- BIOL 1406 – Biology for Science Majors I*** (Core 30 / Lab Core 90)
- CHEM 1411 – General Chemistry I*** (Lab Core 90)
- MATH 1314 – College Algebra (Core 20)
- EDUC/PSYC 1300 – Learning Framework

Second Semester – 14 SCH

- ENGL 1302 – Composition II (Core 10)
- BIOL 1407 – Biology for Science Majors II*** (Core 30)
- CHEM 1412 – General Chemistry II*** (Lab Core 90)
- MATH 2312 – Pre-Calculus (Core 90)

Second Year

Third Semester – 16 SCH

- HIST 1301 – United States History I (Core 60)

- GOVT 2305 – Federal Government (Core 70)
- CHEM 2423 – Organic Chemistry I***
- PSYC 2314 – Lifespan Growth & Development (Core 80)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Fourth Semester – 13 SCH

- HIST 1302 – United States History II (Core 60)
- GOVT 2306 – Texas Government (Core 70)
- CHEM 2425 – Organic Chemistry II
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322, SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

*** Science courses marked with (*) are required for most biology, pre-medical, pre-dental, and pre-veterinary programs and should not be substituted without advisor approval.**

Criminal Justice Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: CRIJ

First Year

First Semester – 15 SCH

- CRIJ 1301 – Introduction to Criminal Justice
- SOCI 1301 – Introduction to Sociology (Core 80)
- ENGL 1301 – Composition I (Core 10)
- SPCH 1321 – Business & Professional Communication (Core 90)
- COSC 1301 – Introduction to Computing

Second Semester – 15 SCH

- CRIJ 1306 – Court Systems & Practices
- CRIJ 1310 – Fundamentals of Criminal Law
- ENGL 1302 – Composition II (Core 10)
- HIST 1301 – United States History I (Core 60)
- MATH 1342 – Elementary Statistical Methods (Core 20)

Second Year

Third Semester – 15 SCH

- CRIJ 2313 – Correctional Systems & Practices
- PSYC 2301 – General Psychology (Core 90)
- GOVT 2305 – Federal Government (Core 70)
- HIST 1302 – United States History II (Core 60)
- PHYS 1303 – Stars and Galaxies (Core 30)

Fourth Semester – 15 SCH

- CRIJ 2328 – Police Systems & Practices
- GOVT 2306 – Texas Government (Core 70)
- PHYS 1304 – Solar System (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, MUSI 1306

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

Field of Study (FOS) Completion Note, an additional 6 SCH will be required depending on the transfer institution.

Kinesiology Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: KINE

This degree includes optional Public Health emphasis.

First Year

First Semester – 16 SCH

- EDUC/PSYC 1100 – Learning Framework
- ENGL 1301 – Composition I (Core 10)
- 3 SCH Core History Elective (Core 60)
- MATH 1342 – Elementary Statistical Methods (Core 20)
- PHED 1301 – Foundations of Kinesiology
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Semester – 15 SCH

- ENGL 1302 – Composition II (Core 10)
- 3 SCH Core History Elective (Core 60)
- PHED 1304 – Personal / Community Health
- PHED 1338 – Concepts of Physical Fitness
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40) *

Second Year

Third Semester – 16 SCH

- BIOL 2401 – Anatomy & Physiology I (Core 30)

- GOVT 2305 – Federal Government (Core 70)
- PHED 1306 – First Aid
- 3 SCH Core Social / Behavioral Science Elective (Core 80)
- 3 SCH Core Component Area Option Elective (Core 90A)

Fourth Semester – 13 SCH

- BIOL 2402 – Anatomy & Physiology II (Core 30)
- GOVT 2306 – Texas Government (Core 70)
- PSYC 2314 – Lifespan Growth & Development (Core 90A)
- KINE 2356 – Care & Prevention of Athletic Injuries
  OR
  PHED 1346 – Drug Use and Abuse*

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Core 80 – Social & Behavioral Sciences
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

Emphasis Clarification (Critical for Advising)

*** Kinesiology majors should complete KINE 2356 in the fourth semester.
*** Public Health majors should complete PHED 1346 in the fourth semester.

Psychology Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer
CIP Code: 24.0102
Program Code: PYSC

First Year

First Semester – 14 SCH

- ENGL 1301 – Composition I (Core 10)
- PSYC 2301 – General Psychology (Core 80)
- PSYC 1100 – Learning Framework
- 3 SCH Core History Elective (Core 60)
- 4 SCH Core Life & Physical Sciences Elective (Core 30)

Second Semester – 16 SCH

- ENGL 1302 – Composition II (Core 10)
- 3 SCH Core History Elective (Core 60)
- MATH 1314 – College Algebra (Core 20)
- PSYC 2314 – Lifespan Growth & Development
- 4 SCH Core Life & Physical Sciences Elective (Core 30)

Second Year

Third Semester – 15 SCH

- SPCH 1315 – Public Speaking (Core 90A)
- GOVT 2305 – Federal Government (Core 70)
- PSYC 2315 – Psychology of Adjustment
- MATH 1342 – Elementary Statistical Methods (Core 90A)
- 3 SCH Electives

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (Core 70)
- PSYC 2319 – Social Psychology
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- 3 SCH Electives

Approved Elective Lists

Core 30 – Life & Physical Sciences
BIOL 1406, 1407, 2401, 2402, 1408, 1409, CHEM 1411, 1412, GEOL 1403, 1404
PHYS 1401, 1402, 2425, 2426

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Advising Note

This degree plan is a suggested pathway. Students should work closely with a Student Success Coach and consult their intended transfer institution to ensure course selections align with specific major requirements.

Chemistry Transfer Plan (AS)

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for University Transfer Students
CIP Code: 24.0102
Program Code: CHEM

First Year

First Semester – 15 SCH

- ENGL 1301 – Composition I (Core 10)
- MATH 2413 – Calculus I (Core 20)
- HIST 1301 – United States History I (Core 60)
- EDUC/PSYC 1100 – Learning Framework
- CHEM 1411 – General Chemistry I (Core 30 / Lab Core 90)

Second Semester – 17 SCH

- ENGL 1302 – Composition II (Core 10)
- MATH 2414 – Calculus II (Core 90)
- HIST 1302 – United States History II (Core 60)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- CHEM 1412 – General Chemistry II (Core 30 / Lab Core 90)

Second Year

Third Semester – 14 SCH

- CHEM 2423 – Organic Chemistry I
- PHYS 2425 – University Physics I (Core 30)
- ECON 2301 – Principles of Macroeconomics (Core 80)
- GOVT 2305 – Federal Government (Core 70)

Fourth Semester – 14 SCH

- CHEM 2425 – Organic Chemistry II
- PHYS 2426 – University Physics II (Core 30)
- GOVT 2306 – Texas Government (Core 70)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- This is a math-intensive transfer degree. Students should be calculus-ready or placed into Calculus I in their first semester.
- Many universities require Calculus III or Differential Equations after transfer; advisors should flag this early.
- Calculus sequence (MATH 2413 → 2414) is essential for chemistry, physics, and engineering transfer.
- CHEM 1411/1412 + CHEM 2423/2425 provide the full lower-division chemistry sequence

Computer Science Transfer Plan (AS)

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for University Transfer Students
CIP Code: 24.0102
Program Code: COSC

The Associate of Science (AS) degree is designed to prepare students for transfer to a four-year university as a Computer Science or Computer Information Systems major. The program provides a strong foundation in mathematics, science, and computer science, including programming concepts and problem-solving skills.

First Year

First Semester – 16 SCH

- COSC 1301 – Introduction to Computing
- EDUC/PSYC 1300 – Learning Framework
- ENGL 1301 – Composition I (Core 10)
- HIST 1301 – United States History I (Core 60)
- MATH 2413 – Calculus I (Core 20)

Second Semester – 16 SCH

- ENGL 1302 – Composition II (Core 10)
- HIST 1302 – United States History II (Core 60)
- MATH 2414 – Calculus II (Core 90)
- SPCH 1321 – Business & Professional Communication (Core 90)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Year

Third Semester – 14 SCH

- COSC 1436 – Programming Fundamentals I
- ECON 2302 – Principles of Microeconomics (Core 80)
- GOVT 2305 – Federal Government (Core 70)
- PHYS 2425 – University Physics I (Core 30)

Fourth Semester – 14 SCH

- COSC 1437 – Programming Fundamentals II
- GOVT 2306 – Texas Government (Core 70)
- PHYS 2426 – University Physics II (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- This is a math-intensive degree. Students should be calculus-ready in their first semester.
- Many universities require Discrete Mathematics and Data Structures after transfer; advisors should flag this early.
- Students planning software engineering or engineering pathways should verify additional physics or engineering requirements with their transfer institution.

STEM: Engineering, Math & Physics Transfer Plan (AS)

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for University Transfer Students
CIP Code: 24.0102
Program Code: EMPH

First Year

First Semester – 16 SCH

- MATH 2413 – Calculus I (Core 20)
- ENGL 1301 – Composition I (Core 10)
- HIST 1301 – United States History I (Core 60)
- EDUC/PSYC 1200 – Learning Framework
- CHEM 1411 – General Chemistry I (Core 30)

Second Semester – 17 SCH

- MATH 2414 – Calculus II (Core 90)
- ENGL 1302 – Composition II (Core 10)
- HIST 1302 – United States History II (Core 60)
- COSC 1436 – Programming Fundamentals I
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Year

Third Semester – 14 SCH

- MATH 2415 – Calculus III
- GOVT 2305 – Federal Government (Core 70)
- PHYS 2425 – University Physics I (Core 30)
- ECON 2301 – Principles of Macroeconomics (Core 80)

Fourth Semester – 13 SCH

- MATH 2320 – Differential Equations
- GOVT 2306 – Texas Government (Core 70)
- PHYS 2426 – University Physics II (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, MUSI 1306

Advising Notes

- This is the most math-intensive AS degree offered. Students should be calculus-ready upon entry.
- Many engineering programs require Linear Algebra, Engineering Statics, or Circuits after transfer—students should plan early.
- Students pursuing engineering accreditation pathways (ABET) should confirm course alignment with their intended transfer institution.

- Full calculus sequence (2413 → 2414 → 2415 → 2320) aligns with lower-division expectations for engineering, physics, and applied mathematics majors.
- University Physics I & II (PHYS 2425/2426) ensure readiness for junior-level engineering and physics coursework.

Associate of Science in Allied Health

- Students may select from multiple pathways based on educational goals.
- Students planning to transfer directly to a university health-related bachelor's degree should select the Allied Health Transfer AS.
- Students planning to apply to a selective-entry PJC Health Occupations program prior to transfer should select a Pre-Health concentration (Pre-Nursing, Pre-Radiology, Pre-Sonography, or Pre-Surgical).
- Admission to health programs is competitive and not guaranteed; students must apply and be accepted into the specific program.

Pre-Health Concentrations

Under the Allied Health AS, PJC has formally created the following tracking concentrations to support selective-entry program preparation:

- Pre-Nursing Pathway (PNUR)
- Pre-Radiology Pathway (PRAD)
- Pre-Sonography Pathway (PDMS)
- Pre-Surgical Pathway (PSRG)

Each concentration uses the Allied Health AS for the degree base while guiding students into the specific prerequisite sequence required for application into the corresponding health occupations program.

Allied Health Transfer Plan

Associate of Science (AS) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer Students
CIP Code: 24.0102
Program Code: AHLT

First Year

First Semester – 16 SCH

- BIOL 2401 – Anatomy & Physiology I (Core 30)
- ENGL 1301 – Composition I (Core 10)
- PSYC 2301 – General Psychology (Core 80)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- 3 SCH Elective

Second Semester – 16 SCH

- BIOL 2402 – Anatomy & Physiology II (Core 30)
- ENGL 1302 – Composition II (Core 10)
- MATH 1314 – College Algebra or MATH 1342 – Elementary Statistical Methods (Core 20)
- 3 SCH Core History Elective (Core 60)
- PSYC 2314 – Lifespan Growth & Development (Core 90B)

Second Year

Third Semester – 15 SCH

- BIOL 1322 – Nutrition & Diet Therapy (Core 90A)
- GOVT 2305 – Federal Government (Core 70)
- SOCI 1301 – Introduction to Sociology (Core 90B)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Fourth Semester – 13 SCH

- BIOL 2420 – Microbiology for Non-Science Majors
- GOVT 2306 – Texas Government (Core 70)
- SPCH 1315 – Public Speaking
- 3 SCH Elective

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Advising Notes

- Admission to health programs is competitive. Completion of prerequisites does not guarantee program acceptance.
- Students intending to enter a PJC health occupations program should declare the appropriate Pre-Health concentration early.
- Students planning direct university transfer should confirm math and science expectations with the receiving institution.
- Course substitutions should not be made without advisor approval due to prerequisite sequencing.

Allied Health Pre-Nursing Plan

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for Pre-Nursing Students
CIP Code: 24.0102
Program Code: PNUR

This degree is designed for students planning to apply to the Paris Junior College Nursing Program.
Completion of this pathway ensures required prerequisite coursework for the nursing program application; admission to the Nursing Program is selective and not guaranteed.

Required Course of Study

First Year

First Semester – 16 SCH

- ENGL 1301 – Composition I (Core 10)
- SOCI 1301 – Introduction to Sociology (Core 90B)
- BIOL 2401 – Anatomy & Physiology I (Core 30)
- BIOL 1322 – Nutrition & Diet Therapy (Core 90A)
- PSYC 2314 – Lifespan Growth & Development (Core 80)

Second Semester – 16 SCH

- ENGL 1302 – Composition II (Core 10)
- PSYC 2301 – General Psychology
- BIOL 2402 – Anatomy & Physiology II (Core 30)
- 3 SCH Electives

- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Second Year

Third Semester – 13 SCH

- MATH 1314 – College Algebra or MATH 1342 – Elementary Statistical Methods (Core 20)
- BIOL 2420 – Microbiology for Non-Science Majors
- GOVT 2305 – Federal Government (Core 70)
- 3 SCH Core History Elective (Core 60)

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (Core 70)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- 6 SCH Electives

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Advising Notes

- Completion of this degree does not guarantee admission to the PJC Nursing Program.
- Students must meet minimum GPA, testing, and application requirements for nursing admission.
- Course substitutions may delay eligibility for nursing application and should not be made without advisor approval.

Allied Health Pre-Radiology Plan

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for Pre-Radiology Students
CIP Code: 24.0102
Program Code: PRAD

This degree is designed for students planning to apply to the Paris Junior College Radiologic Technology Program.
Completion of this pathway ensures required prerequisite coursework for radiology program application; admission to the Radiologic Technology Program is selective and not guaranteed.

Required Course of Study

First Year

First Semester – 16 SCH

- ENGL 1301 – Composition I (Core 10)
- PSYC 2314 – Lifespan Growth & Development (Core 80)
- BIOL 2401 – Anatomy & Physiology I (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- 3 SCH Core Component Area Option Elective (Core 90A)

Second Semester – 17 SCH

- ENGL 1302 – Composition II (Core 10)
- MATH 1314 – College Algebra (Core 20)
- BIOL 2402 – Anatomy & Physiology II (Core 30)
- BIOL 2420 – Microbiology for Non-Science Majors or PHYS 1405 – Physics for Health Sciences
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Year

Third Semester – 12 SCH

- GOVT 2305 – Federal Government (Core 70)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- 3 SCH Electives

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (Core 70)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Component Area Option Elective (Core 90B)
- 6 SCH Electives

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Core 90A – Component Area Option
SPCH 1315, SPCH 1321, MATH 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 1300, 2301, 2315, EDUC 1300
SOCI 1301, 1306, BCIS 1305, COSC 1301

Advising Notes

- Admission to the Radiologic Technology Program is selective and not guaranteed.
- Students should complete Microbiology if they are considering Nursing or Physics if they are considering Sonography as an alternative if they do not get into their first-choice program.
- Course substitutions may delay eligibility and should not be made without advisor approval.

Allied Health Pre-Sonography Plan

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for Pre-Sonography Students
CIP Code: 24.0102
Program Code: PDMS

This degree is designed for students planning to apply to the Paris Junior College Diagnostic Medical Sonography Program.
Completion of this pathway ensures required prerequisite coursework for sonography program application; admission to the Sonography Program is selective and not guaranteed.

Required Course of Study

First Year

First Semester – 16 SCH

- ENGL 1301 – Composition I (Core 10)
- BIOL 2401 – Anatomy & Physiology I (Core 30)
- MATH 1314 – College Algebra (Core 20)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- 3 SCH Core Component Area Option Elective (Core 90A)

Second Semester – 14 SCH

- ENGL 1302 – Composition II (Core 10)
- BIOL 2402 – Anatomy & Physiology II (Core 30)
- PHYS 1405 – Elementary Physics I
- 3 SCH Core History Elective (Core 60)

Second Year

Third Semester – 15 SCH

- PSYC 2314 – Lifespan Growth & Development (Core 80)
- GOVT 2305 – Federal Government (Core 70)
- 3 SCH Core History Elective (Core 60)
- 6 SCH Electives

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (Core 70)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- 3 SCH Core Component Area Option Elective (Core 90B)
- 6 SCH Electives

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Core 90A – Component Area Option
SPCH 1315, SPCH 1321, MATH 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 1300, 2301, 2315, EDUC 1300
SOCI 1301, 1306, BCIS 1305, COSC 1301

Advising Notes

- Admission to the Sonography Program is selective and not guaranteed.
- Course substitutions may delay eligibility and should not be made without advisor approval.
- Students should maintain a competitive GPA in science coursework.

Allied Health Pre-Surgical Plan

Associate of Science (AS) – 60 Semester Credit Hours

Required Course of Study for Pre-Surgical Students
CIP Code: 24.0102
Program Code: PSRG

This degree is designed for students planning to apply to the Paris Junior College Surgical Technology Program.
Completion of this pathway ensures required prerequisite coursework for surgical technology program application; admission to the Surgical Technology Program is selective and not guaranteed.

Required Course of Study

First Year

First Semester – 16 SCH

- ENGL 1301 – Composition I (Core 10)
- PSYC 2314 – Lifespan Growth & Development (Core 80)
- BIOL 2401 – Anatomy & Physiology I (Core 30)
- MATH 1314 – College Algebra or MATH 1342 – Elementary Statistical Methods (Core 20)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Second Semester – 14 SCH

- ENGL 1302 – Composition II (Core 10)
- SOCI 1301 – Introduction to Sociology (Core 90B)
- BIOL 2402 – Anatomy & Physiology II (Core 30)
- BIOL 2420 – Microbiology for Non-Science Majors

Second Year

Third Semester – 15 SCH

- GOVT 2305 – Federal Government (Core 70)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Component Area Option Elective (Core 90A)
- 6 SCH Electives

Fourth Semester – 15 SCH

- GOVT 2306 – Texas Government (Core 70)
- 3 SCH Core History Elective (Core 60)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- 6 SCH Electives

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 – History
HIST 1301, 1302, 2301

Core 90A – Component Area Option
SPCH 1315, SPCH 1321, MATH 1314, 1324, 1332, 1342, 2312, 2413, 2414, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401, 1402, PHYS 1303, 1304, 2425, 2426

Advising Notes

- Admission to the Surgical Technology Program is selective and not guaranteed.
- Course substitutions may delay eligibility and should not be made without advisor approval.

Associate of Arts in Teaching (AAT)

Credential & Length: Associate of Arts in Teaching, 60 SCH

Overview: State-approved transfer degree for students seeking Texas teacher certification at the baccalaureate level.

Available AAT Options:

- Associate of Arts in Teaching (Multiple Levels) Pathway
- Associate of Arts in Teaching (EC–6 or 4–8) Pathway

Admission & Progression Notes

- Students should consult a Student Success Coach to select the appropriate pathway and ensure alignment with transfer institution requirements.
- Completion of the Texas Core Curriculum is guaranteed to transfer to Texas public universities.
- Additional institution-specific requirements may apply at the receiving university. Students should identify the four-year institution they wish to transfer to and then work closely with their academic advisor to select science and other discipline-specific courses to fulfill all graduation requirements.

Associate of Arts in Teaching (Multiple Levels) Plan

Associate of Arts in Teaching (AAT) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer Students
CIP Code: 13.1206
Program Code: EDUC

First Year

First Semester – 16 SCH

- ENGL 1301 – Composition I (Core 10)
- HIST 1301 – United States History I (Core 60)
- EDUC 1301 – Introduction to the Teaching Profession
- EDUC/PSYC 1300 – Learning Framework
- GEOL 1401 – Earth Sciences for Non-Science Majors I (Core 90)

Second Semester – 12 SCH

- ENGL 1302 – Composition II (Core 10)
- HIST 1302 – United States History II (Core 60)
- MATH 1314 – College Algebra (Core 20)
- SPCH 1315 – Public Speaking (Core 90)

Second Year

Third Semester – 16 SCH

- PSYC 2301 – General Psychology (Core 80)
- GOVT 2305 – Federal Government (Core 70)
- BIOL 1408 – Biology for Non-Science Majors I (Core 30)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)
- Content Area / Academic Discipline Course – 3 SCH

Fourth Semester – 16 SCH

- EDUC 2301 – Introduction to Special Populations
- GOVT 2306 – Texas Government (Core 70)
- CHEM 1411 – General Chemistry I (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)
- Content Area / Academic Discipline Course – 3 SCH

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Associate of Arts in Teaching (EC-6 or 4-8) Plan

Associate of Arts in Teaching (AAT) – 60 Semester Credit Hours

Suggested Course of Study for University Transfer Students
CIP Code: 13.1210
Program Code: 2EDEC

First Year

First Semester – 16 SCH

- ENGL 1301 – Composition I (Core 10)
- HIST 1301 – United States History I (Core 60)
- EDUC 1301 – Introduction to the Teaching Profession
- EDUC/PSYC 1300 – Learning Framework
- GEOL 1401 – Earth Sciences for Non-Science Majors I (Core 90)

Second Semester – 12 SCH

- ENGL 1302 – Composition II (Core 10)
- HIST 1302 – United States History II (Core 60)
- MATH 1314 – College Algebra (Core 20)
- SPCH 1315 – Public Speaking (Core 90)

Second Year

Third Semester – 16 SCH

- PSYC 2301 – General Psychology (Core 80)
- GOVT 2305 – Federal Government (Core 70)
- MATH 1350 – Fundamentals of Mathematics I
- BIOL 1408 – Biology for Non-Science Majors I (Core 30)
- 3 SCH Core Visual/Performing Arts Elective (Core 50)

Fourth Semester – 16 SCH

- EDUC 2301 – Introduction to Special Populations
- GOVT 2306 – Texas Government (Core 70)
- MATH 1351 – Fundamentals of Mathematics II
- BIOL 1409 – Biology for Non-Science Majors II (Core 30)
- 3 SCH Core Language, Philosophy & Culture / Humanities Elective (Core 40)

Approved Elective Lists

Core 40 – Language, Philosophy & Culture
COMM 1307, ENGL 2322, 2323, 2327, 2328, 2331, HIST 2311, 2312, 2321, 2322
SPAN 2311, 2312

Core 50 – Visual & Performing Arts
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- AAT degrees are prescriptive. Course substitutions should not be made without advisor approval.
- Students must meet university admission and GPA requirements in addition to degree completion.
- Completion of the AAT does not guarantee admission to competitive educator preparation programs but does ensure core transferability.

Workforce Credit Programs (AAS & Certificates)

Workforce Credit Programs prepare students for immediate employment through hands-on, skills-based instruction aligned with regional and state workforce needs. These programs emphasize applied learning, industry standards, and employability outcomes.

Annual Public Notice of Career and Technical Education Opportunities

Paris Junior College Academic Year: 2026-2027

Nondiscrimination Statement

Paris Junior College is an equal opportunity institution and does not discriminate on the basis of race, color, national origin, sex, gender identity or expression, sexual orientation, age, disability, religion, veteran status, or any other status protected by law in its educational programs, activities, admissions, or employment practices. The institution does not discriminate on the basis of these protected categories in admission to, access to, treatment in, or employment in its programs and activities.

In addition, arrangements will be made to ensure that the lack of English language proficiency is not a barrier to admission or participation in career and technical education programs.

Career and Technical Education Program Offerings

Paris Junior College offers the following career and technical education programs listed below during the 2026-2027 academic year. These programs are designed to prepare students for employment and/or further education and are taught by appropriately credentialed faculty.

A complete and current list of CTE programs is available at: https://www.parisjc.edu/pathways/index.php

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Admissions Criteria and Essential Program Requirements

Admission to CTE programs is based on published institutional and program-specific requirements. Certain programs may have essential physical, environmental, or technical requirements necessary to perform required educational activities safely and effectively.

Examples may include, but are not limited to:

- Working in environments with chemicals, allergens, or industrial equipment
- Standing, bending, reaching, or lifting light objects
- Meeting clinical, safety, or licensing prerequisites

Reasonable accommodations will be provided upon request in accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA).

English Language Access

Students, parents/guardians, employees, and members of the public who have limited English proficiency may request assistance or translated materials related to career and technical education programs. Translated versions of this notice are available upon request.

CTE Program Contact Information

For general information about career and technical education programs, please contact:

- Dr. Michael Erny
- Vice President of Workforce Education
- 2400 Clarksville Street Paris, TX 75460
- Telephone: 903-782-1381
- Email: merny@parisjc.edu

Nondiscrimination Compliance Contacts

Inquiries regarding nondiscrimination policies, including Title IX, Section 504, and Age Discrimination Compliance, should be directed to:

Title IX Coordinator

- Melanie Hatcher
- Ex. Director of Human Resources
- 2400 Clarksville Street Paris, TX
- Telephone: 903-782-0483
- Email: mhatcher@parisjc.edu

Section 504 / ADA Coordinator

- Ansley Hoskins
- Student Success Coach / ADA (Section 504) Coordinator
- 2400 Clarksville Street Paris, TX 75460
- Phone: 903-782-0281
- Email: ahoskins@parisjc.edu

Pregnant & Parenting Students

Paris Junior College's Pregnant and Parenting Student Liaison serves as the designated campus resource for students who are pregnant or parenting. This role is required by Texas Education Code § 51.982 and supports institutional compliance with applicable state and federal protections, including Title IX.

The liaison's primary responsibilities include:

Informing students of their rights under Title IX and state law, including available accommodations related to pregnancy, childbirth, recovery, and parenting responsibilities.

Assisting students with access to academic support, schedule adjustments, childcare referrals, and other campus and community resources.

Supporting faculty and staff in understanding their responsibilities to ensure continued educational access for pregnant and parenting students; and

Serving as a central point of contact to help students address concerns and navigate College processes.

Through advocacy and coordination, the liaison promotes educational continuity and equal access, working to remove barriers so students can remain enrolled and progress toward their educational goals.

For more information or assistance, contact:

- Ansley Hoskins

- Student Success Coach / ADA Coordinator
- 2400 Clarksville Street Paris, TX 75460
- Phone: 903-782-0281
- Email: ahoskins@parisjc.edu

Additional Reference: For legally referenced materials related to equal educational opportunity for pregnant and parenting students, see Board Policy FAA (LEGAL).

Publication and Accessibility Statement

This Annual Public Notice is published prior to the beginning of the academic year and is made available to students, parents/guardians, employees, and the general public through the institution's website and other appropriate communication channels. Archived notices are maintained for compliance and audit purposes.

Date of Publication: Effective AY 2026-2027

This notice is issued in compliance with OCR Guidelines, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and applicable federal and state regulations governing Career and Technical Education.

Associate of Applied Science (AAS)

Credential & Length: Associate of Applied Science, typically 60 SCH

Overview: AAS degrees are designed for direct workforce entry. Programs integrate technical coursework, labs, and where applicable, clinical or work-based learning experiences.

Key Characteristics:

- Career-focused curriculum with limited transfer applicability
- Emphasis on industry skills, certifications, and job readiness
- May include licensure or certification preparation, depending on field

Each AAS degree program must include at least 15 SCH of academic transfer coursework, with a minimum of 3 SCH in each of the following areas:

- Humanities/Fine Arts
- Social/Behavioral Sciences
- Natural Sciences/Mathematics

In addition, math, communication, and computer skills are integrated into every workforce program to the extent that they are applicable and relevant to the occupational field.

Workforce Certificates

Credential & Length: Certificate Level I or II (varies by program)

Overview: Certificates provide targeted technical training for entry-level employment, career advancement, or skill enhancement. Certificates may be embedded within AAS degrees or offered as stand-alone credentials.

Certificate Features:

- Shorter time-to-completion than degree programs
- Focused skill development tied to specific occupations
- May prepare students for industry certification or licensure exams

Admission & Progression Notes

- Workforce programs may have additional admission requirements, including background checks, immunizations, drug screening, or prerequisite coursework.
- Certain programs are selective admission due to clinical capacity or accreditation standards.
- Students should consult with a Program Advisor or Student Success Coach before enrollment.

Licensure & Employment Disclosure

Completion of a workforce program does not guarantee licensure or employment. Eligibility for professional licensure or certification is determined by the applicable licensing authority and may include background review, examination, or additional requirements.

Short-Term Credit & Occupational Skills Awards (OSAs)

Short-Term Credit and Occupational Skills Awards (OSAs) provide focused, rapid workforce training designed to help students gain job-ready skills in a short time frame. OSAs are credit-bearing credentials approved by the Texas Higher Education Coordinating Board and aligned with high-demand occupations.

Credential & Length: Occupational Skills Award, fewer than 16 SCH

Overview: OSAs emphasize specific technical competencies that can lead directly to employment, upskilling, or advancement within an existing career.

Key Characteristics

- Short duration and accelerated completion
- Credit-bearing coursework eligible for financial aid when applicable
- Aligned with workforce demand and employer needs
- May be stackable toward certificates or Associate of Applied Science (AAS) degrees, where applicable

Admission & Enrollment Notes

- OSAs typically have open enrollment, though certain programs may require prerequisites or placement testing.
- Some OSAs may include additional requirements such as background checks, immunizations, or safety training.
- Students are encouraged to meet with a Student Success Coach or Program Advisor to confirm career alignment.

Employment & Credential Disclosure

Completion of an OSA prepares students for entry-level employment or skill enhancement; however, employment outcomes and eligibility for industry certification or licensure are determined by employers or external credentialing bodies.

Health Careers

Health Careers programs prepare students for entry-level employment, certification, or licensure in allied health and patient-care fields. Programs emphasize academic preparation, clinical competency, ethical practice, and compliance with state and federal healthcare standards.

Program Characteristics

- Combination of classroom instruction, laboratory practice, and clinical or practicum experiences
- Alignment with healthcare industry standards and employer expectations
- Selective admission for most programs due to clinical capacity and regulatory requirements

Admission Requirements

Health Careers programs are typically selective admission and may require:

- Completion of prerequisite coursework
- Minimum GPA requirements
- Criminal background checks
- Drug screening
- Immunizations and health documentation

- CPR certification

Admission requirements vary by program and are published in individual program listings.

Clinical & Professional Standards

Students enrolled in Health Careers programs must meet professional standards required by clinical partners, including adherence to:

- Patient confidentiality and HIPAA regulations
- Professional conduct and ethical behavior
- Attendance and performance expectations in clinical settings

Failure to meet clinical or professional standards may result in removal from a program.

Licensure & Certification Disclosure

Graduation from a Health Careers program does not guarantee licensure or certification. Eligibility for licensure or certification is determined by the applicable licensing or credentialing agency and may include background review, examinations, and additional requirements beyond program completion.

Specific credential outcomes and accreditation status are identified on individual program pages.

Diagnostic Medical Sonography

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 51.0910
Program Code: DMSO

Program Goal

The Diagnostic Medical Sonography Program prepares competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains, with emphasis on the Abdominal Sonography – Extended concentration.

Program Description

The Diagnostic Medical Sonography Program is designed to prepare individuals to perform diagnostic examinations using high-frequency sound waves to visualize soft tissue structures, including the liver, gallbladder, kidneys, pregnant uterus, and other organs as requested by a physician.

The program is a full-time, five-semester (two-year) program. Graduates earn an Associate of Applied Science (AAS) degree.

- Didactic courses are held on the Paris campus.
- Clinical practicum experiences are completed at affiliated hospitals and imaging centers in the surrounding region.

This program requires full-time commitment and is not designed for part-time enrollment.

Accreditation & Certification Disclosure

The DMS Program at Paris Junior College has a site visit scheduled for pursuing initial accreditation by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org). This step in the process is neither a status of accreditation nor a guarantee that accreditation will be granted.

Graduates must first pass the American Registry of Radiologic Technologists (ARRT) Sonography examination before becoming eligible to attempt ARDMS specialty examinations.

Students are strongly encouraged to review certification and employment requirements prior to enrollment. Graduation from a non-accredited diagnostic medical sonography program may limit eligibility for professional certification and employment.

Admissions Procedures

Admission to the Diagnostic Medical Sonography Program is selective.

Applicants must complete the following:

- Application and current admission to Paris Junior College
- Submission of complete online application materials during the designated filing period
- Completion of 18 SCH of prerequisite coursework with a minimum cumulative GPA of 3.00

Application Window

- August 1 – September 30 each year

If a prerequisite course grade is not posted by the application deadline, the student must provide the final grade prior to interview selection. Once interviews begin, no additional documentation will be accepted.

For detailed scoring criteria, students should refer to the current admissions packet.

Admission Points System

Applicants are ranked using a point system:

- Prerequisite coursework maximum 20 points
- Prerequisite GPA maximum 4 points
- Highest degree earned maximum 6 points
- Work experience maximum 5 points
- HESI-A2 average maximum 5 points
- Job shadow documentation maximum 10 points
- Personal interview maximum 50 points

Total maximum 100 points

Financial Aid Advisory

Students should consult with the Program Coordinator and the Office of Financial Aid to ensure they meet financial aid eligibility requirements for each term prior to beginning the program.

Health Occupations Office: 903-782-0734

Required Prerequisites – 18 SCH

(All prerequisites must be completed prior to program entry.)

- ENGL 1301 – Composition I
- MATH 1314 – College Algebra
- BIOL 2401 – Anatomy & Physiology I
- BIOL 2402 – Anatomy & Physiology II
- PHYS 1405 – Elementary Physics I or PHYS 1401 – College Physics I

Required Course of Study – Diagnostic Medical Sonography AAS

First Semester – 12 SCH

- DMSO 1110 – Introduction to Sonography
- DMSO 1260 – Clinical – DMS
- DMSO 1302 – Basic Ultrasound Physics
- DMSO 1341 – Abdominopelvic Sonography
- PSYC 2314 – Lifespan Growth & Development

Second Semester – 11 SCH

- DMSO 2305 – Sonography of Obstetrics/Gynecology
- DMSO 1261 – Clinical – DMS
- DMSO 2351 – Doppler Physics
- DMSO 2353 – Sonography of Superficial Structures

Third Semester – 12 SCH

- DMSO 2362 – Clinical – DMS
- DMSO 1342 – Intermediate Ultrasound Physics
- DMSO 2342 – Sonography of High-Risk Obstetrics
- DMSO 2341 – Sonography of Abdominopelvic Pathology

Fourth Semester – 7 SCH

- DMSO 2366 – Clinical – DMS
- DMSO 2130 – Advanced Ultrasound & Review
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40 or 50)

Approved Core Electives (40 / 50)
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311, ARTS 1301
DRAM 1310, 2366, MUSI 1306

Advising Notes

- This program is not a transfer degree and is not designed for university articulation.
- Admission is competitive and not guaranteed.
- Clinical schedules may include daytime, evening, or variable hours based on site availability.
- If students complete all the general education courses before starting the program, they may run into financial aid issues.
- Certification and employment eligibility may be limited due to lack of programmatic accreditation.

Emergency Medical Services

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 51.0904
Program Code: EMSV

Program Overview

Paris Junior College's Emergency Medical Services (EMS) Program offers multiple credentialing options, including:

- Associate of Applied Science (AAS) in Emergency Medical Services
- Certificate in Emergency Medical Technician – Basic
- Certificate in Emergency Medical Technician – Advanced
- Certificate in Emergency Medical Technician – Paramedic
- Occupational Skills Award (OSA) in EMT-Basic

Careers in this field include employment with fire departments, public and private EMS agencies, hospitals, industrial safety organizations, and flight services. Graduates are eligible to apply for National Registry of Emergency Medical Technicians (NREMT) certification examinations.

Students seeking admission should contact EMS faculty, the Health Occupations Department, or Advising & Counseling at Paris Junior College.

Accreditation

The Emergency Medical Technician–Paramedic Program is accredited by:

Commission on Accreditation of Allied Health Education Programs (CAAHEP)
727-210-2350 | www.caahep.org

upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP)
www.coaemsp.org

CAAHEP Contact Address:
9355 – 113th Street North, #7709
Seminole, FL 33775

Program Goal

To prepare Paramedics who are competent in the:

- Cognitive (knowledge)
- Psychomotor (skills)
- Affective (behavior)

learning domains to enter the emergency medical services profession.

The program includes multiple exit points, allowing students to earn credentials at the:

- Emergency Medical Responder (EMR)
- Emergency Medical Technician (EMT-Basic)
- Advanced Emergency Medical Technician (AEMT)
- Paramedic levels

Emergency Medical Services AAS

Prerequisites – 13 SCH

(All prerequisites must be completed prior to progression.)

- EMSP 1501 – Emergency Medical Technician
- EMSP 1160 – Clinical – EMT Paramedic
- EMSP 1271 – EMS Documentation
- EMSP 1208 – Emergency Vehicle Operations
- PSYC 1300 – Learning Framework

First Semester – 13 SCH

- EMSP 1355 – Trauma Management
- EMSP 1161 – Clinical – EMT Paramedic
- EMSP 1356 – Patient Assessment & Airway Management
- EMSP 1338 – Introduction to Advanced Practice
- EMSP 2306 – Emergency Pharmacology

Second Semester – 12 SCH

- EMSP 1162 – Clinical – EMT Paramedic
- EMSP 2434 – Medical Emergencies
- EMSP 2444 – Cardiology
- EMSP 2330 – Special Populations

Third Semester – 6 SCH

- EMSP 2160 – Clinical – EMT Paramedic
- EMSP 2143 – Assessment-Based Management
- EMSP 2266 – Practicum – EMT Paramedic
- EMSP 2205 – EMS Operations

Fourth Semester – 16 SCH

- PSYC 2314 – Lifespan Growth & Development
- ENGL 1301 – Composition I
- COSC 1301 – Introduction to Computing*
- BIOL 2401 – Anatomy & Physiology I
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40 or 50)

* COSC 1301 may be replaced with SOCI 1301 for students planning to enter the Nursing (RN) program.

Approved Core Electives (40 / 50)
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Certificate Programs

Emergency Medical Technician – Basic – Level 1

16 Semester Credit Hours
CIP Code: 51.0904
Program Code: EMSB

First Semester – 16 SCH

- PSYC 1300 – Learning Framework
- EMSP 1501 – Emergency Medical Technician
- EMSP 1160 – Clinical – EMT Paramedic
- EMSP 1271 – EMS Documentation
- EMSP 1208 – Emergency Vehicle Operations

Emergency Medical Technician – Advanced – Level 1

26 Semester Credit Hours
CIP Code: 51.0904
Program Code: EMSA

First Semester – 13 SCH

- PSYC 1300 – Learning Framework
- EMSP 1501 – Emergency Medical Technician
- EMSP 1160 – Clinical – EMT Paramedic
- EMSP 1271 – EMS Documentation
- EMSP 1208 – Emergency Vehicle Operations

Second Semester – 13 SCH

- EMSP 2306 – Emergency Pharmacology
- EMSP 1161 – Clinical – EMT Paramedic
- EMSP 1356 – Patient Assessment & Airway Management
- EMSP 1338 – Introduction to Advanced Practice
- EMSP 1355 – Trauma Management

Emergency Medical Technician – Paramedic – Level 2

44 Semester Credit Hours
CIP Code: 51.0904
Program Code: EMSP

Prerequisites – 13 SCH

- EMSP 1501 – Emergency Medical Technician
- EMSP 1160 – Clinical – EMT Paramedic
- EMSP 1271 – EMS Documentation
- EMSP 1208 – Emergency Vehicle Operations
- PSYC 1300 – Learning Framework

First Semester – 13 SCH

- EMSP 1355 – Trauma Management
- EMSP 1161 – Clinical – EMT Paramedic
- EMSP 1356 – Patient Assessment & Airway Management
- EMSP 1338 – Introduction to Advanced Practice
- EMSP 2306 – Emergency Pharmacology

Second Semester – 12 SCH

- EMSP 1162 – Clinical – EMT Paramedic
- EMSP 2434 – Medical Emergencies

- EMSP 2444 – Cardiology
- EMSP 2330 – Special Populations

Third Semester – 6 SCH

- EMSP 2160 – Clinical – EMT Paramedic
- EMSP 2143 – Assessment-Based Management
- EMSP 2266 – Practicum – EMT Paramedic
- EMSP 2205 – EMS Operations

(Semesters align with EMS AAS Paramedic sequence through Practicum and Operations.)

OSA – EMT Basic

9 Semester Credit Hours
CIP Code: 51.0904
Program Code: XEMT

- PSYC 1300 – Learning Framework
- EMSP 1501 – Emergency Medical Technician
- EMSP 1160 – Clinical – EMT Paramedic

Advising Notes

- EMS Paramedic is CAAHEP-accredited, unlike some other Health Occupations programs.
- Admission and progression require physical, clinical, and scheduling flexibility, including nights and weekends.
- Students may exit at multiple credential levels without completing the AAS.
- This is a workforce degree, not a university transfer pathway.

Enhanced Nurse Aide

Certificate Programs & Occupational Skills Awards

CIP Code: 51.3902

Program Overview

The Enhanced Nurse Aide (ENA) program is designed to prepare trained healthcare professionals to assist licensed nurses in providing patient care across a variety of settings,

including long-term care, assisted living, acute care facilities, physician offices, home care, and other healthcare agencies.

Graduates of the Enhanced Nurse Aide program may pursue employment as:

- Nurse Aide
- Phlebotomist
- Medication Aide

The program is offered in three stackable certificate levels, with multiple credential exit points.

Credential Pathways & Certifications

- After Semester 1: Eligibility to sit for the Certified Nurse Aide (CNA) exam through the Texas Department of Health and Human Services (TDHHS)
- After Semester 2: Potential eligibility for:
    - Phlebotomy certification through ASCP or NHA
    - Certified Medication Aide (CMA) credential through TDHHS

Financial Aid Disclosure

Not Federal Financial Aid Eligible

These short-term certificates do not currently meet federal financial aid eligibility requirements. Students may qualify for alternative funding sources.

Students should complete the FAFSA at www.studentaid.gov. If eligible, students may apply for:

- Texas Public Education Grant (TPEG)
- Institutional scholarships
- Other aid options as determined by the PJC Financial Aid Office

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Enhanced Nurse Aide I - Level I

16 Semester Credit Hours
CIP Code: 51.3902
Program Code: ENAA

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 & Health Promotion

Enhanced Nurse Aide II – Level 1

25 Semester Credit Hours
CIP Code: 51.3902
Program Code: ENAB

First Semester – 16 SCH

(Same as Certificate I)

- 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 & Health Promotion

Second Semester – 9 SCH

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

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Enhanced Nurse Aide III – Level 1

30 Semester Credit Hours
CIP Code: 51.3902
Program Code: ENAC

First Semester – 16 SCH

(Same as Certificate I)

- 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 & 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 & Communication Skills
- NURA 1391 – Special Topics in Nursing Assistant/Aide
- NURA 1261 – Clinical – Nursing Assistant/Aide and Patient Care Assistant/Aide

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OSA – Certified Nurse Assistant

11 Semester Credit Hours
CIP Code: 51.3902
Program Code: XCNA

- 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

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OSA – Phlebotomy Technician

12 Semester Credit Hours
CIP Code: 51.3902
Program Code: XPBT

- GERS 1301 – Introduction to Gerontology
- HPRS 1202 – Wellness & Health Promotion
- PLAB 1223 – Phlebotomy
- PLAB 1260 – Clinical – Phlebotomy/Phlebotomist
- HPRS 2300 – Pharmacology for Health Professions

OSA – Certified Medication Aide

13 Semester Credit Hours
CIP Code: 51.3902
Program Code: XCMA

- NURA 1301 – Nurse Aide for Health Care
- NURA 1260 – Clinical – Nursing Assistant/Aide and Patient Care Assistant/Aide
- NURA 1391 – Special Topics in Nursing Assistant/Aide
- NURA 1261 – Clinical – Nursing Assistant/Aide and Patient Care Assistant/Aide

- HPRS 2300 – Pharmacology for Health Professions

Advising Notes

- These are workforce credentials, not transfer pathways.
- Federal financial aid is not available for ENA certificates and OSAs.
- Credentials are stackable, allowing students to exit and enter as career goals evolve.
- Clinical components require background checks, immunizations, and schedule flexibility.

Health Information Technology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 51.0707
Program Code: HITT

Program Overview

The Health Information Technology (HIT) program is designed to prepare students for employment in medical office billing, coding, and health information management. The program emphasizes medical terminology, coding systems, reimbursement methodologies, health data management, and office technologies used throughout the healthcare industry.

Two stackable certificate options are embedded within the AAS degree:

- Medical Records Coding
- Management and Billing

Graduates are prepared to work in acute care facilities, physician offices, clinics, and other healthcare provider settings.

Career Outcomes & Certification

Graduates may pursue employment in:

- Medical billing and coding
- Health information management
- Medical office administration
- Reimbursement and compliance support roles

Graduates of the Medical Records Coding pathway are eligible to sit for the Certified Coding Associate (CCA) examination.

Required Course of Study

Health Information Technology AAS

First Semester – 15 SCH

- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)
- HITT 1305 – Medical Terminology I
- HPRS 2300 – Pharmacology for Health Professions
- HPRS 2301 – Pathophysiology
- MDCA 1309 – Anatomy & Physiology for Medical Assistants

Second Semester – 15 SCH

- COSC 1301 – Introduction to Computing
- 3 SCH Core Mathematics Elective (Core 20)
- HITT 1301 – Health Data Content and Structure Methodologies
- MDCA 1343 – Medical Insurance
- POFM 1302 – Medical Software Applications

Third Semester – 15 SCH

- POFT 1227 – Introduction to Keyboarding or POFT 1329 – Beginning Keyboarding
- POFT 2312 – Business Correspondence & Communication
- HITT 1342 – Ambulatory Coding
- HITT 1345 – Health Care Delivery Systems
- HITT 1441 – Coding and Classification Systems

Fourth Semester – 15 SCH

- ITSW 1304 – Introduction to Spreadsheets
- HITT 2335 – Coding and Reimbursement
- POFT 1313 – Professional Workforce Preparation
- ENGL 1301 – Composition I

- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40 or 50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Certificate Programs

Medical Records Coding – Level 2

42 Semester Credit Hours
CIP Code: 51.0707
Program Code: MEDC

First Semester – 12 SCH

- HITT 1305 – Medical Terminology
- HPRS 2300 – Pharmacology for Health Professions
- MDCA 1309 – Anatomy & Physiology for Medical Assistants
- HPRS 2301 – Pathophysiology

Second Semester – 12 SCH

- MDCA 1343 – Medical Insurance
- COSC 1301 – Introduction to Computing
- POFM 1302 – Medical Software Applications
- HITT 1301 – Health Data Content and Structure

Third Semester – 12 SCH

- HITT 1342 – Ambulatory Coding
- HITT 1345 – Health Care Delivery Systems
- HITT 1441 – Coding and Classification Systems
- POFT 1227 – Introduction to Keyboarding

Fourth Semester – 6 SCH

- ITSW 1304 – Introduction to Spreadsheets
- HITT 2335 – Coding and Reimbursement Methodologies

Medical Office Management and Billing – Level 1

23 Semester Credit Hours
CIP Code: 51.0713
Program Code: MEDB

First Semester – 11 SCH

- HITT 1305 – Medical Terminology I
- MDCA 1309 – Anatomy & Physiology for Medical Assistants
- POFT 1227 – Introduction to Keyboarding
- COSC 1301 – Introduction to Computing

Second Semester – 12 SCH

- MDCA 1343 – Medical Insurance
- POFM 1302 – Medical Software Applications
- ITSW 1304 – Introduction to Spreadsheets
- POFT 1313 – Professional Workforce Preparation

Advising Notes

- This is a workforce AAS, not a university transfer degree.
- Certificates are stackable into the HITT AAS.
- Certification eligibility applies primarily to coding credentials (CCA).

Nursing Programs

Certificates & Associate of Applied Science (AAS)

The Paris Junior College Nursing Program is a one-plus-one ladder program offering Vocational Nursing (LVN) and LVN-to-RN Associate Degree Nursing pathways.
The first year prepares students for entry into the healthcare workforce as Licensed Vocational Nurses (LVNs). Upon successful completion and satisfaction of all admission requirements, eligible students may continue into the LVN-to-RN Associate Degree Nursing Program.

Vocational Nursing (LVN) Certificate Program

Program Description

The Vocational Nursing program prepares nurses to provide direct patient care in acute care facilities, long-term care, physician offices, clinics, and other healthcare agencies. LVNs practice under the supervision of a Registered Nurse or physician.

The program is completed in 12 months (Summer, Fall, Spring). Graduates earn a Certificate in Vocational Nursing and are eligible to take the NCLEX-PN examination.

Approval

The Vocational Nursing program is approved by the Texas Board of Nursing (BON):
George H.W. Bush State Office Building
1801 Congress Avenue, Suite 10-200
Austin, TX 78701
512-305-7400 | www.bon.texas.gov
(Approval status subject to change.)

Admission to the Vocational Nursing Program

- Applications are available November 1 – March 31.
- Completed applications must be submitted online by the deadline listed on the application.
- Incomplete or late applications will not be considered.
- Financial aid deadlines may differ.

Vocational Nursing Admission Requirements

Admission is selective and based on:

- Available space
- Documentation of approved BON criminal background check
- Proof of eligibility to test from the Texas Board of Nursing
- Completion of prerequisite courses:
    - PSYC 2314 – Lifespan Growth & Development
    - BIOL 2401 – Anatomy & Physiology I
    - BIOL 2402 – Anatomy & Physiology II
    - BIOL 1322 – Nutrition & Diet Therapy

Admission Selection Criteria (21 Points Total)

- HESI A2 Exam (2–6 points)
    - Minimum cumulative score: 75
    - Minimum category scores: 75 A&P, 80 Reading
- Prerequisite courses GPA (3–8 points; minimum GPA 2.5)
- Nursing support courses completed with a C or better (1–5 points)
    - ENGL 1301, PSYC 2301, SOCI 1301, BIOL 2420, CORE 40/50 Elective
- Healthcare experience or certifications (optional, 1–2 points)

Vocational Nursing (LVN) – Level 2 Certificate

50 Semester Credit Hours
CIP Code: 51.3901
Program Code: VNUR

Academic Prerequisites – 14 SCH

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

Summer Semester – 12 SCH

- VNSG 1222 – Vocational Nursing Concepts
- VNSG 1160 – Clinical – LVN Training
- VNSG 1423 – Basic Nursing Skills
- VNSG 1500 – Nursing in Health & Illness I

Fall Semester – 12 SCH

- VNSG 1330 – Maternal-Neonatal Nursing
- VNSG 1509 – Nursing in Health & Illness II
- VNSG 1460 – Clinical – LVN Training

Spring Semester – 12 SCH

- VNSG 1219 – Leadership & Professional Development
- VNSG 1236 – Mental Health
- VNSG 2410 – Nursing in Health & Illness III
- VNSG 2460 – Clinical – LVN Training

LVN-to-RN Associate Degree Nursing (AAS)

Program Description

The LVN-to-RN Associate Degree Nursing Program transitions the licensed vocational nurse into professional nursing practice. Students must hold and maintain a current, unencumbered LVN license in Texas or a Compact Nursing State.

The program is completed in 12 months (Fall, Spring, Summer). Graduates earn an Associate of Applied Science (AAS) in Nursing and are eligible to take the NCLEX-RN examination.

Approval & Accreditation

- Approved by the Texas Board of Nursing (BON)
- Accredited by the Accreditation Commission for Education in Nursing (ACEN)
  3390 Peachtree Road NE, Suite 1400
  Atlanta, GA 30326
  404-975-5000
  www.acenursing.org

Accreditation Status: Continuing Accreditation

Admission to the LVN-to-RN Program

- Applications available March 1 – May 31.
- Students must be admitted to PJC before applying.
- Applications are submitted online.
- Incomplete or late applications will not be considered.

LVN-to-RN Admission Requirements

- Available space
- Approved BON criminal background check
- Proof of LVN licensure and eligibility to test
- Completion of prerequisites:
  - PSYC 2314 – Lifespan Growth & Development
  - PSYC 2301 – General Psychology
  - BIOL 2401 – Anatomy & Physiology I
  - BIOL 2402 – Anatomy & Physiology II
  - BIOL 1322 – Nutrition & Diet Therapy
  - ENGL 1301 – Composition I

Admission Selection Criteria (17 Points Total)

- HESI RN Mobility or HESI Exit PN (2–5 points; minimum score 850) taken within two years
- Prerequisite GPA (3–8 points; minimum GPA 2.5)
- Support courses completed (1–3 points):
  SOCI 1301, BIOL 2420, CORE 40/50 Elective
- Completion of PJC Vocational Nursing Program (1 point)

LVN-to-RN AAS – Required Course of Study

CIP Code: 51.3801
Program Code: LVNR

Prerequisites – 24 SCH

- VNSG 2410 – Nursing in Health & Illness III *(or met via LVN licensure)*
- BIOL 1322 – Nutrition & Diet Therapy
- BIOL 2401 – Anatomy & Physiology I
- BIOL 2402 – Anatomy & Physiology II
- PSYC 2301 – General Psychology
- PSYC 2314 – Lifespan Growth & Development
- ENGL 1301 – Composition I

First Semester – 12 SCH**

- RNSG 1324 – Concept-Based Transition to Professional Nursing
- RNSG 1218 – Transition to Professional Nursing Competencies
- RNSG 1226 – Professional Nursing Concepts II
- RNSG 2160 – Clinical – Registered Nursing
- BIOL 2420 – Microbiology

Upon successful completion of first-semester RNSG courses, four credit hours are awarded for previous LVN experience.

Second Semester – 13 SCH

- RNSG 1538 – Health Care Concepts III
- RNSG 1237 – Professional Nursing Concepts III
- RNSG 2363 – Clinical – Registered Nursing

- SOCI 1301 – Introduction to Sociology

Third Semester – 11 SCH

- RNSG 2539 – Health Care Concepts IV
- RNSG 2138 – Professional Nursing Concepts IV
- RNSG 2260 – Clinical – Registered Nursing
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives (40 / 50)
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- Nursing programs are selective-entry and BON-regulated.
- Criminal background clearance is required before admission.
- This is a workforce AAS, not a transfer degree.
- Clinical schedules may include evenings, weekends, and variable hours.

Radiology Technology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 51.0911
Program Code: RADI

Program Description

The Radiology Technology Program prepares individuals for employment in diagnostic medical radiography, applying imaging methods to examine the human body for structural defects and disease processes.

The program is a two-year, six-semester, full-time program leading to an Associate of Applied Science (AAS) degree. Students gain experience through classroom instruction, laboratory activities, and supervised clinical education. Clinical rotations occur at affiliated hospitals and clinics, some located more than 60 miles from the Paris campus.

Accreditation & Certification

The Paris Junior College Radiology Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT):

JRCERT
20 North Wacker Drive, Suite 2850
Chicago, IL 60606-3182
312-704-5300
www.jrcert.org

Graduates are eligible to apply for the American Registry of Radiologic Technologists (ARRT) certification examination.

Admissions Procedures

Applications are accepted from August 1 to September 30 each year; available space determines cohort size. The Radiology Technology Program admission application is available online by logging into the MYPJC Portal and selecting the Health Occupations TAB.

The following will be required for admission to Radiology Technology Program:

- Applicants must be admitted students to PJC before they will have access to apply for the Radiology Technology Program.
- Texas Success Initiative (TSI) exemption status, or proof that TSI criteria have been met (college transcript).
- Official college transcripts from all colleges attended.
- Required references.
- Immunization records: MMR, Varicella, Hep B series, current Tdap, TB, and annual influenza.
- Student will complete CPR (American Heart Association BLS for Healthcare Providers) certification in the first semester of the program.

Admission is competitive, and many successful applicants maximize their entrance points by completing the academic support courses before program application. The academic support courses include BIOL 2401 and 2402, PSYC 2314, ENGL 1301, MATH 1314, and the CORE 40/50 elective. See catalog for a complete listing of course requirements. The competitive points system is based on 100 points:

Applicants are ranked based on the first 50 points (academic coursework, GPA, and references). Top-ranked applicants are invited for an interview. Not all applicants will be interviewed, the top 50 will be interviewed, and if there are still spots available, additional interviews in blocks of 10 will be picked until all accepted and alternate seats are filled. Final admission decisions are based on the total 100-point score, including the interview.

- Completion of general academic coursework (24 points possible).
- GPA in required courses (25 points possible).
- References (1 point possible).
- Applicant interview (50 points possible).

For application materials, contact Health Occupations (903-782-0734).

Required Course of Study – Radiology Technology AAS

First Semester – 13 SCH**

- BIOL 2401 – Anatomy & Physiology I*
- RADR 1201 – Introduction to Radiography
- RADR 1203 – Patient Care
- RADR 1311 – Basic Radiographic Procedures
- RADR 1266 – Practicum – Radiologic Technology

Second Semester – 11 SCH

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

Third Semester – 13 SCH

- PSYC 2314 – Lifespan Growth & Development
- RADR 2209 – Radiographic Imaging Equipment
- RADR 2331 – Advanced Radiographic Procedures
- RADR 2266 – Practicum – Radiologic Technology
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Fourth Semester – 13 SCH

- ENGL 1301 – Composition I
- MATH 1314 – College Algebra
- RADR 2233 – Advanced Medical Imaging
- RADR 2213 – Radiation Biology & Protection
- RADR 2366 – Practicum – Radiologic Technology

Fifth Semester – 4 SCH

- RADR 2205 – Principles of Radiographic Imaging II
- RADR 2267 – Practicum – Radiologic Technology

Sixth Semester – 6 SCH

- RADR 2335 – Radiologic Technology Seminar
- RADR 2367 – Practicum – Radiologic Technology

* BIOL 2401 should be completed prior to program start to improve first-term success.

Approved Core Electives (40 / 50)
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- This program is a selective-entry workforce AAS degree, not a transfer pathway.
- Clinical rotations may require travel, variable schedules, evenings, and weekends.
- Accreditation enables eligibility for national certification exams (ARRT).
- Criminal background checks, immunizations, and drug screening are mandatory.

Surgical Technology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 51.0909
Program Code: SRGT

Program Description

The Surgical Technology Program prepares students for entry-level employment as Surgical Technologists in the acute-care operating room. Under the supervision of licensed healthcare providers, surgical technologists assist in maintaining sterile fields, preparing surgical equipment, and supporting surgical teams across multiple specialties.

Principles of safety and sterility are emphasized and specialized skills are developed. The Surgical Technologist will prepare the surgical field, pass instruments to surgeons, cut

sutures, and assist with tissue retraction and surgical site visualization. Through preparation, skills application and critical thinking, the Surgical Technologist helps the surgical team achieve safe and efficient surgical intervention for a variety of surgical specialties.

The Associate of Applied Science degree is 60 credit hours and in addition to campus classroom and laboratory attendance, will include two semesters of hospital-based clinical training in various healthcare facilities located within our service area.

Accreditation & Certification

The Surgical Technology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Accreditation Review Committee on Surgical Technology & Surgical Assisting (ARC/STSA):

CAAHEP
9355 – 113th Street North, #7709
Seminole, FL 33775
www.caahep.org

ARC/STSA
19751 East Mainstreet, Suite #339

Parker, Colorado 80138
303-694-9262
www.arcstsa.org

Graduates are required to sit for the National Certifying Examination for Surgical Technologists (CST) to achieve the Certified Surgical Technologist (CST) credential.

Admissions Procedures

- New cohorts begin in Spring and Summer.
- Applications are due April 1 or November 1, depending on entry term however, late applications will be accepted for consideration until the cohort is full. The Surgical Technology Program admission application is available online by logging into the MYPJC Portal and selecting the Health Occupations TAB.
- Complete program application.
- Required references (work and personal).
- Texas Success Initiative (TSI) exemption status, or proof that TSI criteria have been met (college transcript).
- College transcripts for current enrollment and from all colleges attended.

- Authorization and Release Form for Investigative Consumer Report of Criminal Background Check, to include: FACIS Level-I, Sex Offender Registry Search, SSN Trace and Address Locator Database, Statewide Criminal Record Search Healthcare.
- Immunization Records: MMR, Varicella, Hep B series, current Tdap, TB, and annual influenza.
- Admission is competitive and based on:
    - Completion of prerequisites (BIOL 2401 & BIOL 2402)
    - GPA
    - References
    - Application score (maximum 150 points)
    - HESI A2 (minimum combined score of 75)
    - Interview
    - Available space

Required Course of Study – Surgical Technology AAS

Prerequisites – 8 SCH

- BIOL 2401 – Anatomy & Physiology I
- BIOL 2402 – Anatomy & Physiology II

First Semester – Foundation – 10 SCH

- BIOL 2420 – Microbiology for Non-Science Majors
- HITT 1305 – Medical Terminology I
- HPRS 2300 – Pharmacology for Health Professions

Second Semester – 13 SCH

- SRGT 1405 – Introduction to Surgical Technology
- SRGT 1409 – Fundamentals of Perioperative Concepts & Techniques
- SRGT 1244 – Technological Sciences for the Surgical Technologist
- ENGL 1301 – Composition I

Third Semester – 15 SCH

- SRGT 1441 – Surgical Procedures I
- SRGT 2461 – Clinical – Surgical
- SRGT 2130 – Professional Readiness
- SOCI 1301 – Introduction to Sociology

- 3 SCH Core Math Elective (Core 20)

Fourth Semester – 14 SCH

- SRGT 1442 – Surgical Procedures II
- SRGT 2462 – Clinical – Surgical
- PSYC 2314 – Lifespan Growth & Development
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Advising Notes

- This program is a selective-entry workforce AAS degree, not a transfer pathway.
- Clinical rotations may require travel, variable schedules, evenings, and weekends.
- Accreditation enables eligibility for national certification exams (CST).
- Criminal background checks, immunizations, and drug screening are mandatory.

Industry & Trades

Industry & Trades programs prepare students for skilled technical employment in high-demand fields through hands-on instruction, applied learning, and alignment with industry standards. Programs emphasize safety, technical competency, and workforce readiness.

Program Characteristics

- Applied, skills-based curriculum with extensive laboratory or shop components
- Alignment with industry practices, codes, and safety standards
- Opportunities for work-based learning, internships, or practicums where applicable

Admission Requirements

Industry & Trades programs typically maintain open enrollment, though specific programs may require:

- Placement testing or prerequisite coursework
- Physical capability or safety clearances
- Compliance with equipment, tool, or personal protective equipment (PPE) requirements

Admission criteria are published in individual program listings.

Safety & Professional Expectations

Students enrolled in Industry & Trades programs are expected to:

- Adhere to established safety protocols and lab/shop procedures
- Use required safety equipment and personal protective gear
- Maintain professional conduct in instructional and work-based settings

Failure to comply with safety or professional standards may result in removal from instructional settings or a program.

Credentials & Employment Disclosure

Industry & Trades programs may lead to:

- Associate of Applied Science (AAS) degrees
- Workforce Certificates
- Occupational Skills Awards (OSAs)

Completion of a program does not guarantee employment. Eligibility for industry certification or licensure is determined by external credentialing bodies and employers.

Air Conditioning & Refrigeration

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 47.0201
Program Code: HART

Program Overview

The Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) industry is experiencing rapid growth. This program prepares students for entry-level and advanced positions in residential and commercial HVAC/R.

Paris Junior College offers multiple stackable credentials, allowing students to:

- Enter the workforce quickly through a short-term Installer Certificate
- Advance skills in troubleshooting, repair, and system design
- Progress into the Associate of Applied Science (AAS) degree

Students may earn EPA certification to handle CFC, HCFC, HFC, and HFO refrigerants, a requirement for many HVAC employers.

Required Course of Study – Air Conditioning & Refrigeration AAS

First Semester – 15 SCH

- HART 1301 – Basic Electricity for HVAC
- HART 1307 – Refrigeration Principles
- HART 1310 – HVAC Shop Practices & Tools
- HART 1303 – Air Conditioning Control Principles
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)

Second Semester – 15 SCH

- HART 1341 – Residential Air Conditioning
- HART 1345 – Gas & Electric Heating
- HART 2338 – Air Conditioning Installation & Startup
- HART 2349 – Heat Pumps
- ENGL 1301 – Composition I

Third Semester – 15 SCH

- HART 2331 – Advanced Electricity for HVAC
- HART 2336 – Air Conditioning Troubleshooting
- HART 2345 – Residential Air Conditioning Systems Design
- 3 SCH Core Math Elective (Core 20)
- 3 SCH Core Component Area Option Elective (Core 90A or 90B)

Fourth Semester – 15 SCH

- HART 2334 – Advanced Air Conditioning Controls
- HART 2341 – Commercial Air Conditioning
- HART 1356 – EPA Recovery Certification Preparation
- SPCH 1321 – Business & Professional Communication

- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Core 90A – Component Area Option
SPCH 1315, SPCH 1321, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401
PHYS 1303, 1304, 2425

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306
BCIS 1305, COSC 1301

Certificate Programs

Air Conditioning & Refrigeration – Level 1

42 Semester Credit Hours
CIP Code: 47.0201
Program Code: HARC

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 & Tools

Second Semester – 12 SCH

- HART 1341 – Residential Air Conditioning
- HART 1345 – Gas & Electric Heating
- HART 2338 – Air Conditioning Installation & Service
- HART 2349 – Heat Pumps

Third Semester – 9 SCH

- HART 2331 – Advanced Electricity for HVAC
- HART 2336 – Air Conditioning Troubleshooting
- HART 2345 – Residential Air Conditioning Systems Design

Fourth Semester – 9 SCH

- HART 1356 – EPA Recovery Certification Preparation
- HART 2341 – Commercial Air Conditioning
- HART 2334 – Advanced Air Conditioning Controls

Air Conditioning Installer – Level 1

21 Semester Credit Hours
CIP Code: 47.0201
Program Code: HARI

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 & Tools

Second Semester – 9 SCH

- HART 1341 – Residential Air Conditioning
- HART 1345 – Gas & Electric Heating
- HART 2338 – Air Conditioning Installation & Service

Distributed Digital Control (DDC) – Air Conditioning – Level 2

51 Semester Credit Hours
CIP Code: 47.0201
Program Code: HARD

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 & Tools

Second Semester – 12 SCH

- HART 1341 – Residential Air Conditioning
- HART 1345 – Gas & Electric Heating
- HART 2349 – Heat Pumps
- HART 2338 – Air Conditioning Installation & Service

Third Semester – 12 SCH

- HART 2331 – Advanced Electricity for HVAC
- HART 2336 – Air Conditioning Troubleshooting
- HART 2345 – Residential Air Conditioning Systems Design
- HART 1351 – Energy Management

Fourth Semester – 15 SCH

- HART 1356 – EPA Recovery Certification Preparation
- HART 2341 – Commercial Air Conditioning
- HART 2334 – Advanced Air Conditioning Controls
- HART 2343 – Industrial Air Conditioning
- HART 2350 – HVAC Zone Controls

OSA – HVAC Installer Helper

12 Semester Credit Hours
CIP Code: 47.0201
Program Code: XHIH

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

Advising Notes

- All HVAC credentials are workforce-focused, not university transfer pathways.
- EPA Section 608 certification preparation is embedded in the curriculum.
- Certificates are stackable into the AAS, allowing progressive skill development.
- Employment opportunities include residential, commercial, and industrial HVAC/R.

Aviation Maintenance Technology – Airframe

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 47.0607
Program Code: AMTA

Program Approval Status
This program is not yet approved by the Federal Aviation Administration (FAA) and will not enroll students before receiving FAA approval. The Aviation Maintenance Technology – Airframe program does not have an official start. Students should consult the program website for current approval and start-date information as it becomes available.

Advising Notes

- FAA approval is required before enrollment and program launch.
- The start date has not been determined as of the publication of this catalog.

Business Management

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 52.0201

Program Code: BMGT

Program Overview

The Associate of Applied Science in Business Management prepares students with the knowledge and skills applicable to careers in business and industry. The program is designed for entry-level and mid-level management positions. Potential career opportunities include office accounting clerk, assistant manager, management trainee, small business manager or entrepreneur, supervisor, and sales representative.

Required Course of Study Business Management AAS

First Semester – 15 SCH

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

Second Semester – 15 SCH

- ACNT 1311 – Introduction to Computerized Accounting
- BMGT 1327 – Principles of Management
- HRPO 2301 – Human Resources Management
- Core Mathematics Elective – 3 SCH (20)
- LPC / Visual or Performing Arts Elective – 3 SCH (40, 50)

Third Semester – 15 SCH

- ACCT 2301 – Principles of Financial Accounting
- POFT 2312 – Business Correspondence & Communication
- ITSW 2334 – Advanced Spreadsheets
- ECON 2301 – Principles of Macroeconomics
- ENGL 1301 – Composition I

Fourth Semester – 15 SCH

- ACCT 2302 – Principles of Managerial Accounting
- BUSI 2301 – Business Law
- BUSG 2309 – Small Business Management / Entrepreneurship
- ECON 2302 – Principles of Microeconomics
- POFT 1313 – Professional Workforce Preparation*

*BMGT 2388 – Internship: Business Administration and Management, General may be substituted with approval.

Approved Electives

Core Mathematics Electives (20)

MATH 1314, MATH 2312, MATH 2413, MATH 1324, MATH 1332, MATH 1342

LPC / Visual or Performing Arts Electives (40, 50):
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Certificate Programs

Business Management – Level 2

45 Semester Credit Hours

CIP Code: 52.0201
Program Code: BMGC

First Semester – 15 SCH

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

Second Semester – 15 SCH

- ACNT 1311 – Introduction to Computerized Accounting
- BMGT 1327 – Principles of Management
- BUSG 2309 – Small Business Management / Entrepreneurship
- HRPO 2301 – Human Resources Management
- ACCT 2301 – Principles of Financial Accounting

Third Semester – 15 SCH

- BUSI 2301 – Business Law
- ECON 2301 – Principles of Macroeconomics
- POFT 2312 – Business Correspondence & Communication
- ACCT 2302 – Principles of Managerial Accounting
- POFT 1313 – Professional Workforce Preparation

Business Office Accounting – Level 1

24 Semester Credit Hours

CIP Code: 52.0201
Program Code: BOAC

First Semester – 12 SCH

- BUSG 1301 – Introduction to Business
- ACNT 1303 – Introduction to Accounting I
- ITSW 1304 – Introduction to Spreadsheets
- POFT 2312 – Business Correspondence & Communication

Second Semester – 12 SCH

- BCIS 1305 – Business Computer Applications
- ACNT 1311 – Introduction to Computerized Accounting
- ACCT 2301 – Principles of Financial Accounting
- POFT 1313 – Professional Workforce Preparation

Entrepreneurship – level 1

18 Semester Credit Hours

CIP Code: 52.0201
Program Code: ENTR

First Semester – 9 SCH

- BUSG 1301 – Introduction to Business
- MRKG 1311 – Principles of Marketing
- ACNT 1303 – Introduction to Accounting I

Second Semester – 9 SCH

- BUSG 2309 – Small Business Management / Entrepreneurship
- BUSI 2301 – Business Law
- HRPO 2301 – Human Resources Management

Advising Notes

- Business programs are workforce-focused, not university transfer pathways.
- Certificates and OSAs are stackable into the AAS.
- Students develop skills applicable to business management.

Computer Aided Design (Drafting)

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 15.1301
Program Code: DFTG

Program Overview

The Computer Aided Design (CAD) program prepares students for careers in drafting, design, and advanced modeling using industry-standard Computer-Aided Design (CAD) software. Coursework emphasizes technical drafting, mechanical and architectural design, civil drafting, parametric and solid modeling, and professional presentation techniques.

Students gain hands-on experience using modern CAD technologies, including access to a 3D Printing Lab, providing advanced prototyping skills that enhance employability in engineering, manufacturing, construction, and design-related industries.

Required Course of Study – Computer Aided Design AAS

First Semester – 15 SCH

- DFTG 1309 – Basic Computer-Aided Drafting
- DFTG 1305 – Technical Drafting
- DFTG 2319 – Intermediate Computer-Aided Drafting
- DFTG 1325 – Blueprint Reading & Sketching
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)

Second Semester – 15 SCH

- DFTG 1345 – Parametric Modeling & Design
- DFTG 2312 – Technical Illustration & Presentation
- DFTG 1333 – Mechanical Drafting
- DFTG 2340 – Solid Modeling/Design
- SPCH 1321 – Business & Professional Communication

Third Semester – 15 SCH

- DFTG 1317 – Architectural Drafting – Residential
- DFTG 1330 – Civil Drafting I
- DFTG 2331 – Advanced Technologies in Architectural Design & Drafting
- DFTG 2328 – Architectural Drafting – Commercial
- ENGL 1301 – Composition I

Fourth Semester – 15 SCH

- DFTG 2332 – Advanced Computer-Aided Drafting
- DFTG 2323 – Pipe Drafting
- DFTG 2338 – Final Project – Advanced Drafting
- 3 SCH Core Mathematics Elective (Core 20)
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Certificate Programs

CAD Specialist – Level 2

45 Semester Credit Hours
CIP Code: 15.1301
Program Code: CADS

First Semester – 12 SCH

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

Second Semester – 12 SCH

- DFTG 1345 – Parametric Modeling & Design
- DFTG 1333 – Mechanical Drafting
- DFTG 2312 – Technical Illustration & Presentation
- DFTG 2340 – Solid Modeling/Design

Third Semester – 12 SCH

- DFTG 1317 – Architectural Drafting – Residential
- DFTG 1330 – Civil Drafting I
- DFTG 2328 – Architectural Drafting – Commercial
- DFTG 2331 – Advanced Technologies in Architectural Design & Drafting

Fourth Semester – 9 SCH

- DFTG 2332 – Advanced Computer-Aided Drafting
- DFTG 2323 – Pipe Drafting
- DFTG 2338 – Final Project – Advanced Drafting

CAD Technician – Level 1

36 Semester Credit Hours
CIP Code: 15.1301
Program Code: CADT

First Semester – 12 SCH

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

Second Semester – 12 SCH

- DFTG 1345 – Parametric Modeling & Design
- DFTG 1333 – Mechanical Drafting
- DFTG 2312 – Technical Illustration & Presentation
- DFTG 2340 – Solid Modeling/Design

Third Semester – 12 SCH

- DFTG 1317 – Architectural Drafting – Residential
- DFTG 1330 – Civil Drafting I
- DFTG 2328 – Architectural Drafting – Commercial
- DFTG 2331 – Advanced Technologies in Architectural Design & Drafting

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3D Prototyping – Level 1

27 Semester Credit Hours
CIP Code: 15.1301
Program Code: PRTO

First Semester – 12 SCH

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

Second Semester – 15 SCH

- DFTG 1345 – Parametric Modeling & Design
- DFTG 2312 – Technical Illustration & Presentation
- DFTG 1333 – Mechanical Drafting
- DFTG 2340 – Solid Modeling/Design
- DFTG 2332 – Advanced Computer-Aided Drafting

OSA – AutoCAD Associate

12 Semester Credit Hours
CIP Code: 15.1301
Program Code: XCAD

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

OSA – Mechanical Drafting

12 Semester Credit Hours
CIP Code: 15.1301
Program Code: XMDF

- DFTG 1345 – Parametric Modeling & Design
- DFTG 1333 – Mechanical Drafting
- DFTG 2312 – Technical Illustration & Presentation
- DFTG 2340 – Solid Modeling/Design

Advising Notes

- CAD programs are workforce-focused, not university transfer pathways.
- Certificates and OSAs are stackable into the CAD AAS.
- Students develop skills applicable to architecture, engineering, manufacturing, construction, and design industries.
- The final project serves as a portfolio-ready capstone for employment.

Cybersecurity

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 11.1003
Program Code: CYBR

Program Overview

The Cybersecurity program prepares students for careers in information security, network defense, and cyber operations. Graduates develop the skills necessary to assess risk and vulnerabilities, understand cyber-attack and defense methodologies, design and secure networked systems, and troubleshoot information security incidents.

The program emphasizes hands-on technical training aligned with industry-recognized networking and security frameworks, including secure network design, system hardening, incident response, and digital forensics.

Required Course of Study – Cybersecurity AAS

First Semester – 15 SCH

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

Second Semester – 15 SCH

- ITCC 1344 – CCNA 2: Switching, Routing & Wireless Essentials
- ITSY 1342 – Information Technology Security
- ITNW 1354 – Implementing & Supporting Servers
- ITNW 2305 – Network Administration
- 3 SCH Core Mathematics Elective (Core 20)

Third Semester – 15 SCH

- ITCC 2320 – CCNA 3: Enterprise Networking, Security & Automation
- ITSY 2300 – Operating System Security
- ITSY 2301 – Firewalls & Network Security
- ITSC 1325 – Personal Computer Hardware
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Fourth Semester – 15 SCH

- ITSY 2343 – Computer System Forensics
- ITSY 2342 – Incident Response & Handling

- ITSY 2345 – Network Defense & Countermeasures
- GAME 1301 – Computer Ethics
- ECON 2302 – Principles of Microeconomics

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Certificate Program

Cybersecurity – Level 2

48 Semester Credit Hours
CIP Code: 11.1003
Program Code: CYBC

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 & Wireless Essentials
- ITSY 1342 – Information Technology Security
- ITNW 1354 – Implementing & Supporting Servers
- ITNW 2305 – Network Administration

Third Semester – 12 SCH

- ITCC 2320 – CCNA 3: Enterprise Networking, Security & Automation
- ITSY 2300 – Operating System Security
- ITSY 2301 – Firewalls & 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 & Countermeasures
- GAME 1301 – Computer Ethics

Advising Notes

- Cybersecurity programs are workforce-focused, not university transfer pathways.
- The certificate is stackable into the AAS, allowing students to enter the workforce and return to complete the degree.
- Coursework aligns with networking and security certification domains, supporting industry readiness.
- Strong foundational knowledge in networking and operating systems is critical for student success.

Electrician

Certificate – Clock-Hour Program

736 Clock Hours / 30 Semester Credit Hours
CIP Code: 46.0302
Program Code: ELPT

Program Overview

Paris Junior College offers a Certificate in Electrician designed to provide students with a solid foundation in electrical theory, wiring methods, motors and controls, blueprint reading, and troubleshooting of complex electrical systems.

The program prepares students for employment in residential, commercial, and industrial electrical settings, including facilities maintenance involving lighting systems, security systems, and electrical equipment.

This is a clock-hour workforce program, approved for Federal Financial Aid eligibility. Due to federal funding requirements, daily attendance is recorded, and students must meet minimum attendance standards to maintain financial-aid eligibility.

Program Format & Financial Aid Disclosure

- Clock-Hour Program: 736 total clock hours
- Semester Credit Equivalent: 30 SCH
- Federal Financial Aid Eligible

- Attendance-Based: Students must meet minimum attendance requirements to remain eligible for aid

Failure to meet attendance requirements may result in loss of financial-aid eligibility.

Required Course of Study

First Semester

368 Clock Hours | 15 Semester Credit Hours

- CNBT 2310 – Commercial/Industrial Blueprint Reading (48 CH)
- ELPT 1411 – Basic Electrical Theory (96 CH)
- ELPT 1221 – Introduction to Electrical Safety & Tools (64 CH)
- ELPT 1225 – National Electrical Code I (32 CH)
- ELPT 1429 – Residential Wiring (128 CH)

Second Semester

368 Clock Hours | 15 Semester Credit Hours

- ELPT 1357 – Industrial Wiring (96 CH)
- ELPT 2225 – National Electrical Code II (32 CH)
- ELPT 1341 – Motor Control (64 CH)
- ELPT 1445 – Commercial Wiring (96 CH)
- ELPT 2323 – Transformers (80 CH)

OSA – Residential Electrician Helper

12 Semester Credit Hours
CIP Code: 46.0302
Program Code: XREH

- ELPT 1411 – Basic Electrical Theory (96 CH)
- ELPT 1221 – Introduction to Electrical Safety & Tools (64 CH)
- ELPT 1225 – National Electrical Code I (32 CH)
- ELPT 1429 – Residential Wiring (128 CH)

Advising Notes

- This is a workforce certificate, not a degree or transfer pathway.
- Clock-hour attendance requirements are mandatory for federal financial-aid eligibility.

- Coursework emphasizes National Electrical Code (NEC) compliance.
- Students should be prepared for hands-on lab work and safety-sensitive instruction.

Horology Technology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 47.0408
Program Code: HORO

Program Overview

The Texas Institute of Jewelry Technology (TIJT) at Paris Junior College is internationally recognized for excellence in watchmaker training. Demand for highly skilled watchmakers continues to grow as sales of fine mechanical timepieces and precious-metal watches increase worldwide.

The Horology Technology program prepares students for careers in:

- After-sales service and brand service centers
- Antique and vintage watch restoration
- Independent repair and micro-technical trades
- Related precision and fine-mechanics fields

Horology Technology is a four-semester program, with entry points in the Fall and Spring semesters.

Selective Entry Requirements

Admission to the Horology Technology program is selective due to limited enrollment and specialized training requirements. The selection process includes:

- Written statement of intent
- Mechanical aptitude assessment
- On-campus skills evaluation

Interested candidates are strongly encouraged to contact the Program Coordinator for detailed admission information prior to applying.

Program Information / Campus Tour: 903-782-0361

Program Content

Students may pursue certificates or the AAS degree in Horology Technology. Instruction includes comprehensive training in:

- Mechanical watch repair and restoration
- Automatic movements and calendar systems
- Chronographs, timers, and complications
- Electric, Accutron®, and quartz technologies
- Step-motor systems and digital watches
- Lathe work and precision fabrication
- Materials, history, and business applications

Required Course of Study – Horology Technology AAS

First Semester – 15 SCH

- HRGY 1319 – Basic Horology I
- HRGY 1320 – Basic Horology II
- HRGY 1321 – Basic Horology III
- HRGY 1322 – Basic Horology IV
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)

Second Semester – 15 SCH

- HRGY 2301 – Intermediate Horology I
- HRGY 2302 – Intermediate Horology II
- HRGY 2303 – Intermediate Horology III
- HRGY 2304 – Intermediate Horology IV
- 3 SCH Core Component Area Option Elective (Core 90A or 90B)

Third Semester – 15 SCH

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

Fourth Semester – 15 SCH

- HRGY 2341 – Advanced Horology Systems I
- HRGY 2342 – Advanced Horology Systems II
- HRGY 2343 – Advanced Horology Systems III
- 3 SCH Core Mathematics Elective (Core 20)
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Core 90A – Component Area Option
SPCH 1315, SPCH 1321, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401
PHYS 1303, 1304, 2425

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306
BCIS 1305, COSC 1301

Certificate Programs

Horology Technology – Level 2

45 Semester Credit Hours
CIP Code: 47.0408
Program Code: HORC

First Semester (12 SCH)

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

Second Semester (12 SCH)

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

Third Semester (12 SCH)

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

Fourth Semester (9 SCH)

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

Fine Mechanical Watch Repair – Level 1

36 Semester Credit Hours
CIP Code: 47.0408
Program Code: WCHF

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

Basic Watch Repair – Level 1

24 Semester Credit Hours
CIP Code: 47.0408
Program Code: WCHB

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

OSA – Encasement Technician

12 Semester Credit Hours
CIP Code: 47.0408
Program Code: XENC

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

Advising Notes

- Horology is a selective-entry, highly specialized workforce program.
- Seats are limited; early contact with the program coordinator is strongly recommended.
- Certificates and OSA credentials are stackable into the AAS.
- Graduates enter a global niche industry with strong demand for skilled watchmakers.

Jewelry Technology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 47.0408
Program Code: JWLT

Program Overview

The Texas Institute of Jewelry Technology (TIJT) at Paris Junior College has maintained a reputation for teaching excellence since 1942 and is internationally recognized for training skilled bench jewelers. TIJT serves a diverse, global student population, and graduates earn certificates or an Associate of Applied Science (AAS) from Paris Junior College.

The Jewelry Technology program blends state-of-the-art instruction with time-honored bench-jewelry techniques, including bead-set/bright-cut and pavé. Students train at individualized workstations under the supervision of professional jewelers, gaining the technical precision and craftsmanship required for today's jewelry industry.

Prospective students are encouraged to tour the PJC campus and the TIJT division or request a complete information and cost packet.
Program Information / Campus Tour: 903-782-0380

Program Description

Jewelry Technology is a four-semester program focused on the fundamentals of the Bench Jeweler profession, with entry points in the Fall and Spring semesters. Students may pursue certificates or the AAS degree.

Program content includes:

- Proper use of jewelry tools and equipment
- Hand finishing and machine polishing
- Forming and fabrication techniques
- Jewelry repair and restoration
- Wax carving and casting
- Stone setting (round and fancy-cut stones)
- Working with gold and platinum

Upon completion, students may be eligible to take the Jewelers of America certification examination for Bench Jewelers.

Required Course of Study – Jewelry Technology AAS

First Semester – 15 SCH

- JLRY 1301 – Jewelry Techniques I

- JLRY 1302 – Jewelry Techniques II
- JLRY 1303 – Jewelry Techniques III
- JLRY 1304 – Jewelry Techniques IV
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)

Second Semester – 15 SCH

- JLRY 1309 – Casting I
- JLRY 1348 – Jewelry Repair/Fabrication I
- JLRY 1349 – Jewelry Repair/Fabrication II
- 3 SCH Core Component Area Option Elective (Core 90A or 90B)
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Third Semester – 15 SCH

- JLRY 1341 – Stone Setting I
- JLRY 1342 – Stone Setting II
- JLRY 1343 – Stone Setting III
- JLRY 1344 – Stone Setting IV
- ENGL 1301 – Composition I

Fourth Semester – 15 SCH

- JLRY 2335 – Precious Metals I
- JLRY 2336 – Precious Metals II
- JLRY 2337 – Precious Metals III
- JLRY 2338 – Precious Metals IV
- 3 SCH Core Mathematics Elective (Core 20)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Core 90A – Component Area Option
SPCH 1315, SPCH 1321, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401
PHYS 1303, 1304, 2425

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306
BCIS 1305, COSC 1301

Certificate Programs

Jewelry Technology – Level 1

48 Semester Credit Hours
CIP Code: 47.0408
Program Code: JWLC

First Semester (12 SCH)
- JLRY 1301 - Jewelry Techniques I
- JLRY 1302 - Jewelry Techniques II
- JLRY 1303 - Jewelry Techniques III
- JLRY 1304 - Jewelry Techniques IV

Second Semester (12 SCH)
- JLRY 1309 - Casting I
- JLRY 2333 - Casting II
- JLRY 1348 - Jewelry Repair/Fabrication I
- JLRY 1349 - Jewelry Repair/Fabrication II

Third Semester (12 SCH)
- JLRY 1341 - Stone Setting I
- JLRY 1342 - Stone Setting II
- JLRY 1343 - Stone Setting III
- JLRY 1344 - Stone Setting IV

Fourth Semester (12 SCH)
- JLRY 2335 - Precious Metals I
- JLRY 2336 - Precious Metals II
- JLRY 2337 - Precious Metals III
- JLRY 2338 - Precious Metals IV

Jewelry Fabrication & Repair Technician – Level 1

18 Semester Credit Hours
CIP Code: 47.0408
Program Code: JFRP

First Semester (12 SCH)

- JLRY 1301 - Jewelry Techniques I
- JLRY 1302 - Jewelry Techniques II
- JLRY 1303 - Jewelry Techniques III
- JLRY 1304 - Jewelry Techniques IV

Second Semester (6 SCH)

- JLRY 1348 - Jewelry Repair/Fabrication I
- JLRY 1349 - Jewelry Repair/Fabrication II

OSA – Stone Setting

12 Semester Credit Hours
CIP Code: 47.0408
Program Code: XJSS

- JLRY 1341 – Stone Setting I
- JLRY 1342 – Stone Setting II
- JLRY 1343 – Stone Setting III
- JLRY 1344 – Stone Setting IV

Advising Notes

- Jewelry Technology is a hands-on, workforce-focused program, not a university transfer pathway.
- Certificates and OSAs are stackable into the AAS.
- Graduates are prepared for bench jewelry, repair, fabrication, and specialty stone-setting roles.
- The program supports preparation for industry certification through Jewelers of America.

Jewelry Design and Gemology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 50.0713
Program Code: JDGM

Program Overview

The Texas Institute of Jewelry Technology (TIJT) at Paris Junior College offers specialized training in gemology, jewelry design, and custom jewelry production. This program blends gemstone science with bench-jewelry and computer-aided design skills, preparing graduates for careers in retail jewelry operations, custom design studios, and gemological services.

Students may pursue:

- A one-semester Certificate in Gemology
- A two-semester Certificate in Jewelry Computer-Aided Design
- Or the Associate of Applied Science (AAS) in Jewelry Design and Gemology

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Program Description

The Gemology curriculum develops skills in:

- Identification of gemstones
- Detection of imitation and synthetic materials
- Proper use and care of gemological laboratory instruments
- Study of gemstone formation, recovery, merchandising, advertising, display, promotion, buying, and selling

The Jewelry Design component prepares students to work with jewelry-specific CAD software, supporting the design and creation of custom jewelry pieces. The combined AAS pathway equips graduates with both technical gemological knowledge and design-production capabilities.

Graduates are prepared for employment as gemologists, jewelry designers, CAD technicians, or retail jewelry professionals, with a strong emphasis on professional jewelry operations.

Required Course of Study – Jewelry Design and Gemology AAS

First Semester – 16 SCH

- JLRY 1413 – Fundamentals of Gemology I (Diamonds)
- JLRY 1414 – Fundamentals of Gemology II (Colored Stones)
- JLRY 1450 – Intermediate Gemology
- JLRY 2431 – Advanced Gemological Practice

Second Semester – 15 SCH

- JLRY 1301 – Jewelry Techniques I
- JLRY 1302 – Jewelry Techniques II
- JLRY 1309 – Casting I
- JLRY 2333 – Casting II
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)

Third Semester – 15 SCH

- JLRY 1341 – Stone Setting I
- ENGL 1301 – Composition I
- 3 SCH Core Component Area Option Elective (Core 90A or 90B)
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)
- 3 SCH Core Mathematics Elective (Core 20)

Fourth Semester – 14 SCH

- HRGY 1371 – Introduction to Computer-Aided Jewelry Design
- HRGY 1372 – Technical Illustration for Jewelry Design
- HRGY 1373 – Basic Computer-Aided Drafting for Jewelry Design
- HRGY 1374 – Solid Modeling Design for Jewelry
- JLRY 1290 – Special Topics in Metal & Jewelry Arts

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Core 90A – Component Area Option

SPCH 1315, SPCH 1321, BIOL 1322, 1408, 1409, 2306, 2401, 2402, GEOL 1401
PHYS 1303, 1304, 2425

Core 90B – Component Area Option
AGRI 2317, CRIJ 1301, ECON 2301, 2302, PSYC 2301, 2314, 2315, SOCI 1301, 1306
BCIS 1305, COSC 1301

Certificate Programs

Gemology – Level 1

16 Semester Credit Hours
CIP Code: 47.0408
Program Code: GEMO

- JLRY 1413 – Fundamentals of Gemology I (Diamonds)
- JLRY 1414 – Fundamentals of Gemology II (Colored Stones)
- JLRY 1450 – Intermediate Gemology
- JLRY 2431 – Advanced Gemological Practice

Jewelry Computer-Aided Design – Level 1

18 Semester Credit Hours
CIP Code: 47.0408
Program Code: JCAD

First Semester – 6 SCH

- JLRY 1309 – Casting I
- JLRY 2333 – Casting II

Second Semester – 12 SCH (Summer)

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

Advising Notes

- Jewelry Design and Gemology is a workforce-focused program, not a university transfer pathway.
- Certificates are stackable into the AAS, supporting flexible entry and exit points.

- Graduates are prepared for roles in gemology, jewelry design, CAD, and retail jewelry operations.
- The program complements the TIJT Jewelry Technology and Horology pathways.

Mechatronics

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 15.0403
Program Code: MCHT

Program Overview

The Mechatronics program prepares students for employment in industrial maintenance and related technical fields. The curriculum integrates electrical, electronic, mechanical, hydraulic, pneumatic, robotic, and computer-based automated systems, reflecting current industrial practices.

Instructional emphasis is placed on understanding, operating, and troubleshooting electromechanical systems commonly found in modern manufacturing and industrial environments.

Required Course of Study – Mechatronics AAS

First Semester – 15 SCH

- CETT 1409 – DC-AC Circuits
- ELMT 2333 – Industrial Electronics
- OSHT 1220 – Industrial Safety
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)
- 3 SCH Core Mathematics Elective (Core 20)

Second Semester – 15 SCH

- ENTC 1349 – Reliability & Maintainability
- HYDR 1345 – Hydraulics & Pneumatics
- INTC 1341 – Principles of Automatic Control
- RBTC 1301 – Programmable Logic Controllers
- RBTC 1351 – Robotic Mechanisms

Third Semester – 15 SCH

- ELMT 2337 – Electronic Troubleshooting, Service & Repair
- ELPT 1351 – Electrical Machines
- ELPT 2319 – Programmable Logic Controllers I
- RBTC 1305 – Robotic Fundamentals
- COSC 1301 – Introduction to Computing

Fourth Semester – 15 SCH

- ELPT 2355 – Programmable Logic Controllers II
- CETT 1349 – Digital Systems
- INMT 2345 – Industrial Troubleshooting
- ENGL 1301 – Composition I
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Certificate Programs

Industrial Maintenance Technician – Level 2

45 Semester Credit Hours
CIP Code: 15.0403
Program Code: IMTN

First Semester – 9 SCH

- CETT 1409 – DC-AC Circuits

- ELMT 2333 – Industrial Electronics
- OSHT 1220 – Industrial Safety

Second Semester – 15 SCH

- ENTC 1349 – Reliability & Maintainability
- INTC 1341 – Principles of Automatic Control
- RBTC 1351 – Robotic Mechanisms
- RBTC 1301 – Programmable Logic Controllers
- HYDR 1345 – Hydraulics & Pneumatics

Third Semester – 12 SCH

- ELMT 2337 – Electronic Troubleshooting, Service & Repair
- ELPT 2319 – Programmable Logic Controllers I
- ELPT 1351 – Electrical Machines
- RBTC 1305 – Robotic Fundamentals

Fourth Semester – 9 SCH

- ELPT 2355 – Programmable Logic Controllers II
- CETT 1349 – Digital Systems
- INMT 2345 – Industrial Troubleshooting

Mechatronics – Level 1

30 Semester Credit Hours
CIP Code: 15.0403
Program Code: MCHC

First Semester – 9 SCH

- CETT 1409 – DC-AC Circuits
- ELMT 2333 – Industrial Electronics
- OSHT 1220 – Industrial Safety

Second Semester – 12 SCH

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

Third Semester – 9 SCH

- ELMT 2337 – Electronic Troubleshooting, Service & Repair
- ELPT 2319 – Programmable Logic Controllers I

- ELPT 1351 – Electrical Machines

Industrial Production Operator – level 1

18 Semester Credit Hours
CIP Code: 15.0403
Program Code: INPO

First Semester – 9 SCH

- CETT 1409 – DC-AC Circuits
- ELMT 2333 – Industrial Electronics
- OSHT 1220 – Industrial Safety

Second Semester – 9 SCH

- ENTC 1349 – Reliability & Maintainability
- RBTC 1351 – Robotic Mechanisms
- HYDR 1345 – Hydraulics & Pneumatics

OSA – Maintenance Technician Helper

12 Semester Credit Hours
CIP Code: 15.0403
Program Code: XMTH

- CETT 1409 – DC-AC Circuits
- ELMT 2333 – Industrial Electronics
- OSHT 1220 – Industrial Safety
- RBTC 1351 – Robotic Mechanisms

Advising & Workforce Notes

- Mechatronics is a workforce-focused program, not a university transfer pathway.
- Certificates are stackable into the AAS, allowing flexible entry and exit points.
- Graduates are prepared for industrial maintenance, automation, robotics, and controls roles.
- Strong emphasis on hands-on labs and troubleshooting skills.

Networking

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 11.1002
Program Code: NTWK

Program Overview

The Associate of Applied Science in Networking prepares students for careers in network technology, network administration, and technical support. The program emphasizes skills related to network management, hardware and software installation, security, server support, and equipment repair.

Students develop hands-on experience assembling computers, installing network wiring and interfaces, configuring and troubleshooting network software, and maintaining network hardware and operating systems. Industry certification training, including Network+ and A+, is integrated into the curriculum.

Required Course of Study – Networking AAS

First Semester – 15 SCH

- ITNW 1325 – Fundamentals of Networking Technologies
- ITSC 1305 – Introduction to PC Operating Systems
- ITSC 1325 – Personal Computer Hardware
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Second Semester – 15 SCH

- IMED 1316 – Web Design I
- ITNW 1351 – Fundamentals of Wireless LANs
- ITSC 1321 – Intermediate PC Operating Systems
- COSC 1301 – Introduction to Computing
- 3 SCH Core Mathematics Elective (Core 20)

Third Semester – 15 SCH

- ITNW 1354 – Implementing & Supporting Servers
- ITNW 2313 – Networking Hardware
- ITSW 1304 – Introduction to Spreadsheets

- ITSC 2339 – Personal Computer Help Desk Support
- ENGL 1301 – Composition I

Fourth Semester – 15 SCH

- ITNW 2305 – Network Administration
- ITSY 1342 – Information Technology Security
- ITSW 1307 – Introduction to Database
- ITSW 2334 – Advanced Spreadsheets
- POFT 1313 – Professional Workforce Preparation*

* ITSC 2386 – Internship: Computer and Information Sciences may be substituted with approval.

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Certificate Programs

Computer Network Technician – A+ - Level 1

42 Semester Credit Hours
CIP Code: 11.1002
Program Code: CNTC

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 & Supporting Servers
- ITNW 2313 – Networking Hardware
- ITSC 2339 – Personal Computer Help Desk Support
- POFT 1313 – Professional Workforce Preparation*

* Internship substitution is available with approval.

Computer Support Technician – A+ - Level 1

30 Semester Credit Hours
CIP Code: 11.1002
Program Code: CSTC

First Semester – 15 SCH

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

Second Semester – 15 SCH

- ITNW 1354 – Implementing & Supporting Servers
- ITNW 1351 – Fundamentals of Wireless LANs
- ITNW 2305 – Network Administration
- ITSY 1342 – Information Technology Security
- POFT 1313 – Professional Workforce Preparation*

Cisco / C-Tech - Level 2

45 Semester Credit Hours
CIP Code: 11.1001
Program Code: CISC

First Semester (12 SCH)

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

Second Semester (12 SCH)

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

Third Semester (12 SCH)

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

Fourth Semester (9 SCH)

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

Microsoft Office Specialist – Level 1

16 Semester Credit Hours
CIP Code: 11.0101
Program Code: MOSP

Not Federal Financial Aid Eligible
This short-term certificate does not currently meet federal financial-aid eligibility requirements. Students may explore TPEG, scholarships, or other aid options through the PJC Financial Aid Office.

First Semester (10 SCH)

- ITSW 1304 - Introduction to Spreadsheets
- ITSW 1401 - Introduction to Word Processing
- ITSW 2334 - Advanced Spreadsheets

Second Semester (6 SCH)

- ITSW 1307 - Introduction to Database

- ITSW 1310 - Introduction to Presentation Graphics Software

OSA – Helpdesk Support Professional

9 Semester Credit Hours
CIP Code: 11.1001
Program Code: XHSP

- ITSC 1305 - Introduction to PC Operating Systems
- ITSC 1325 - Personal Computer Hardware
- ITSC 2339 - Personal Computer Help Desk Support

OSA – Network Support Professional

12 Semester Credit Hours
CIP Code: 11.1001
Program Code: XNSP

- ITSC 1305 - Introduction to PC Operating Systems
- ITSC 1325 - Personal Computer Hardware
- ITNW 1325 - Fundamentals of Networking Technologies
- ITNW 2305 - Network Administration

OSA – Cisco Certified Network Associate

12 Semester Credit Hours
CIP Code: 11.1001
Program Code: XCCN

- ITSC 1305 - Introduction to PC Operating Systems
- ITCC 1314 - CCNA 1: Introduction to Networks
- ITCC 1344 - CCNA 2: Switching, Routing, and Wireless Essentials
- ITCC 2320 - CCNA 3: Enterprise Networking, Security, and Automation

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Advising Notes

- Networking programs are workforce-focused, not university transfer pathways.
- Certificates and OSAs are stackable into the AAS, supporting multiple entry and exit points.
- The curriculum supports preparation for A+, Network+, and Cisco certification domains.
- Internship substitution may be available with program approval.

Welding Technology

Associate of Applied Science (AAS) – 60 Semester Credit Hours

CIP Code: 48.0508
Program Code: WLDG

Program Overview

The Welding Technology program prepares students for employment in structural, pipe, and production welding environments. Graduates may earn an Associate of Applied Science (AAS) degree or industry-aligned certificates from Paris Junior College.

Students in the Welding program test for industry certifications administered on the PJC campus:

- AWS Structural Steel Welding Certificate, administered by a representative of the American Welding Society (AWS)
- ASME Pipe Welding Certificate, administered by a representative of the American Society of Mechanical Engineers (ASME)

Certification testing is used for program evaluation purposes and may assist students in securing employment. Students are not required to pass certification exams to complete program credentials.

Required Course of Study – Welding Technology AAS

First Semester – 16 SCH

- WLDG 1323 – Welding Safety, Tools & Equipment
- WLDG 1425 – Introduction to Oxy-Fuel Welding & Cutting
- WLDG 1307 – Introduction to Welding Using Multiple Processes
- WLDG 1313 – Introduction to Blueprint Reading for Welders
- PSYC 1300 – Learning Framework or 3 SCH Core Social & Behavioral Science Elective (Core 60/70/80)

Second Semester – 15 SCH

- COSC 1301 – Introduction to Computing
- WLDG 1427 – Welding Codes & Standards
- WLDG 1457 – Intermediate Shielded Metal Arc Welding (SMAW)
- WLDG 1434 – Introduction to Gas Tungsten Arc Welding (GTAW)

Third Semester – 14 SCH

- WLDG 1435 – Introduction to Pipe Welding
- WLDG 2413 – Intermediate Welding Using Multiple Processes
- WLDG 1317 – Introduction to Layout & Fabrication
- 3 SCH Core Mathematics Elective (Core 20)

Fourth Semester – 15 SCH

- WLDG 2451 – Advanced Gas Tungsten Arc Welding (GTAW)
- WLDG 2553 – Advanced Pipe Welding
- ENGL 1301 – Composition I
- 3 SCH Core Language, Philosophy & Culture or Visual/Performing Arts Elective (Core 40/50)

Approved Core Electives

Core 20 – Mathematics
MATH 1314, 2312, 2413, 1324, 1332, 1342

Core 40 / 50 – LPC & Visual/Performing Arts
COMM 1307, ENGL 2322, 2323, 2327, 2331, HIST 2311, 2321, SPAN 2311
ARTS 1301, DRAM 1310, 2366, MUSI 1306

Core 60 / 70 / 80 – History, Government, Social & Behavioral Sciences
HIST 1301, 1302, 2301, GOVT 2305, 2306, AGRI 2317, CRIJ 1301, ECON 2301, 2302
PSYC 2301, 2314, 2315, SOCI 1301, 1306

Certificate Programs

Structural Steel Welding – level 1

17 Semester Credit Hours
CIP Code: 48.0508
Program Code: WLSS

- WLDG 1323 – Welding Safety, Tools & Equipment
- WLDG 1425 – Introduction to Oxy-Fuel Welding & Cutting
- WLDG 1307 – Introduction to Welding Using Multiple Processes
- WLDG 1313 – Introduction to Blueprint Reading for Welders
- WLDG 1457 – Intermediate Shielded Metal Arc Welding (SMAW)

Pipe Welding – Level 1

42 Semester Credit Hours
CIP Code: 48.0508
Program Code: WLPI

First semester (17 SCH)

- WLDG 1323 - Welding Safety, Tools, and Equipment
- WLDG 1425 - Introduction to Oxy-Fuel Welding and Cutting
- WLDG 1307 - Introduction to Welding Using Multiple Processes
- WLDG 1313 - Introduction to Blueprint Reading for Welders
- WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)

Second semester (16 SCH)

- WLDG 1427 - Welding Codes and Standards
- WLDG 1434 - Introduction to Gas Tungsten Arc (GTAW)Welding
- WLDG 1435 - Introduction to Pipe Welding
- WLDG 2413 - Intermediate Multi Processes

Third semester (9 SCH)

- WLDG 2451 - Advanced Gas Tungsten Arc (GTAW) Welding
- WLDG 2553 - Advanced Pipe Welding

Production Welding – Level 1

18 Semester Credit Hours
CIP Code: 48.0508
Program Code: WLPR

- WLDG 1323 – Welding Safety, Tools & Equipment
- WLDG 1425 – Introduction to Oxy-Fuel Welding & Cutting
- WLDG 1430 – Introduction to Gas Metal Arc Welding (GMAW)
- WLDG 1317 – Introduction to Layout & Fabrication
- WLDG 2447 – Advanced Gas Metal Arc Welding (GMAW)

OSA – Shielded Metal Arc Welding

11 Semester Credit Hours
CIP Code: 48.0508
Program Code: XWSM

- WLDG 1307 - Introduction to Welding Using Multiple Processes
- WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)
- WLDG 2413 - Intermediate Multi Processes

Requires prerequisite coursework; not intended as a stand-alone credential.

OSA – Pipe Welder

13 Semester Credit Hours
CIP Code: 48.0508
Program Code: XWPW

- WLDG 1434 - Introduction to Gas Tungsten Arc (GTAW) Welding
- WLDG 2451 - Advanced Gas Tungsten Arc (GTAW) Welding
- WLDG 2553 - Advanced Pipe Welding

Requires prerequisite coursework; not intended as a stand-alone credential.

OSA – Gas Metal Arc Welder

11 Semester Credit Hours
CIP Code: 48.0508
Program Code: XWMA

- WLDG 1323 - Welding Safety, Tools, and Equipment
- WLDG 1430 - Introduction to Gas Metal Arc Welding (GMAW)
- WLDG 2447 - Advanced Gas Metal Arc Welding (GMAW)

Requires prerequisite coursework; not intended as a stand-alone credential.

Advising Notes

- Welding programs are workforce-focused, not university transfer pathways.
- Certificates and OSAs are stackable into the AAS, supporting multiple entry and exit points.
- The curriculum supports preparation for American Welding Society Qualification.

Professional Skills Development Programs

The Department of Continuing Education at Paris Junior College offers a wide range of Professional Skills Development Programs designed to prepare individuals for success in today's workplace. These programs focus on job-related skills, upskilling, and workforce

readiness. Courses are offered throughout the year and are designed to be flexible, short-term, and workforce-responsive.

Students who complete Professional Skills Development Programs receive a certificate of completion. In some cases—where licensure or credentialing is achieved—training may be transferable into academic credit toward higher-level degrees, subject to college policies.

Paris Junior College also collaborates with area businesses, industries, organizations, and individuals to develop customized continuing education courses, workshops, institutes, and forums through the Workforce Education Division.

Continuing Education courses are offered throughout the year and are designed to be flexible, short-term, and workforce-responsive.

Students should refer to the PJC website for more details.

Registration & Enrollment

- Students will work with the Continuing Education department for all enrollments.

Program Requirements & Disclosures

Some Continuing Education programs may require:

- Prior background knowledge or specific skill levels
- Background checks
- Vaccination records
- Valid driver's license
- Medical examinations
- Other entrance or licensure requirements

Students should contact the Continuing Education Department for specific requirements.

Grading Policy

- Most Continuing Education courses are graded on a Pass (P) / Fail (F) basis with a Pass equivalent to a "B"
- Courses marked with "X" (Incomplete) must be completed within one calendar year or will automatically convert to a Fail (F)
- Certain courses may follow the PJC academic grading policy, as specified

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Licensure & Employment Disclosure

Completion of a workforce program does not guarantee licensure or employment. Eligibility for professional licensure or certification is determined by the applicable licensing authority and may include background review, examination, or additional requirements.

Certified Nurse Assistant (CNA)

Non-Credit Occupational Skills Award
176 Contact Hours
CIP Code: 51.3902

The Certified Nurse Assistant (CNA) program prepares individuals for entry-level patient care positions through a combination of classroom instruction and hands-on clinical experience. Students learn essential skills such as:

- Assisting with activities of daily living (ADLs)
- Infection control practices
- Measuring and recording vital signs
- Providing patient care under nurse supervision

Graduates are eligible to sit for the state CNA certification examination.
Students must meet program entrance requirements.

Courses

- NURA 1001 – Nurse Aide for Health Care (60 Contact Hours)
- NURA 1060 – Clinical – Nursing Assistant/Aide (40 Contact Hours)

Certified Production Technician (CPT)

176 Contact Hours
CIP Code: 15.0407

The Manufacturing Skill Standards Council (MSSC) Certified Production Technician (CPT) 4.0 program is a nationally recognized, industry-led certification designed for front-line manufacturing careers. The program focuses on mastery of core competencies in:

- Safety
- Quality practices
- Production processes
- Maintenance awareness

This certification supports preparation for high-skill, high-wage manufacturing positions.

Courses

- ELPT 1021 – Introduction to Electrical Safety & Tools (48 Contact Hours)
- CETT 1009 – DC-AC Circuits (64 Contact Hours)
- ENTC 1049 – Reliability & Maintainability (64 Contact Hours)

Child Development Associate (CDA) Training – Hybrid

120 Contact Hours
CIP Code: 19.0709

The Child Development Associate (CDA) Credential™ is the most widely recognized credential in Early Childhood Education (ECE) and serves as a key step toward career advancement in childcare and education.

To earn the CDA Credential™, students must complete:

- 120 hours of Professional Education
- 480 hours of Professional Experience
- Verification visit with a CDA Professional Development Specialist
- CDA Exam at a Pearson VUE testing center

Courses

- CDEC 1017 – Child Development Training I (60 Contact Hours)
- CDEC 2022 – Child Development Training II (60 Contact Hours)

Clinical Medical Assistant

Non-Credit Occupational Skills Award
304 Contact Hours
CIP Code: 51.3902

The Clinical Medical Assistant program prepares students for versatile, in-demand healthcare roles. Training includes both classroom and clinical components, covering:

- Assisting physicians during examinations
- Administering medications
- Taking and recording vital signs
- Managing electronic health records (EHR)

Students must meet program entrance requirements.

Courses

- MDCA 1000 – Basic Medical Assistant Technology (32 Contact Hours)
- MDCA 1009 – Anatomy & Physiology for Medical Assistants (48 Contact Hours)
- MDCA 1052 – Medical Assistant Laboratory Procedures (64 Contact Hours)
- MDCA 1064 – Practicum – Medical/Clinical Assistant (160 Contact Hours)

Dental Assistant

100 Contact Hours
CIP Code: 51.0601

The Dental Assisting program prepares students for entry-level employment in dental practices, one of the fastest-growing healthcare fields. The program introduces students to:

- Pre-clinical dental assisting procedures
- Chairside assisting techniques
- Professional behaviors required in dental offices

Course

- DNTA 1015 – Chairside Assisting (100 Contact Hours)

Pharmacy Technician

130 Contact Hours
CIP Code: 51.0805

The Pharmacy Technician program prepares students for entry-level employment in retail and specialty pharmacy settings. Instruction includes:

- Medication dispensing procedures
- Pharmaceutical calculations
- Basic pharmacology
- Pharmacy law and regulations

Graduates are prepared to pursue pharmacy technician employment and applicable certification pathways.
Students must meet program entrance requirements.

Courses

- PHRA 1001 – Introduction to Pharmacy (50 Contact Hours)
- PHRA 1060 – Clinical – Pharmacy Technician/Assistant (80 Contact Hours)

Phlebotomy – Basic and Clinical

Non-Credit Occupational Skills Award
160 Contact Hours
CIP Code: 51.3902

The Phlebotomy program prepares students for entry-level phlebotomy technician positions. Training focuses on:

- Venipuncture and capillary collection techniques
- Blood specimen handling and processing
- Anatomy and physiology related to phlebotomy
- Safety protocols and patient care

Students must meet program entrance requirements.

Courses

- PLAB 1023 – Basic Phlebotomy (64 Contact Hours)
- PLAB 1060 – Clinical – Phlebotomy/Phlebotomist (96 Contact Hours)

Law Enforcement Academy

Certificate Program
768 Contact Hours
CIP Code: 43.0107

The Law Enforcement Academy at Paris Junior College is under review by the Texas Commission on Law Enforcement (TCOLE). The academy is not authorized to offer TCOLE licensing courses or training credit currently. Student enrollment is currently not open, please check the website for updates. Program content, admission requirements, and course availability are subject to change pending approval.

The academy combines classroom instruction with hands-on practical training in:

- Criminal law and patrol procedures
- Firearms proficiency
- Emergency vehicle operations
- Defensive tactics and crisis intervention
- Ethics, professionalism, and community policing

The PJC Law Enforcement Academy program maintains a Cadet Manual that meets the TCOLE guidelines and may trump other PJC standard policies and procedures.

Students must meet special entrance requirements.

Courses

- CJLE 1006 – Basic Peace Officer I (176 Contact Hours)
- CJLE 1012 – Basic Peace Officer II (176 Contact Hours)
- CJLE 1018 – Basic Peace Officer III (176 Contact Hours)
- CJLE 1024 – Basic Peace Officer IV (176 Contact Hours)
- CJLE 1011 – Basic Firearms (64 Contact Hours)

Licensure & Employment Disclosure

Completion of a workforce program does not guarantee licensure or employment. Eligibility for professional licensure or certification is determined by the applicable licensing authority and may include background review, examination, or additional requirements.

Professional Truck Driver (CDL)

200 Contact Hours
CIP Code: 49.0205

The Professional Truck Driver program provides classroom, lab, and behind-the-wheel training designed to prepare students for Class A Commercial Driver's License (CDL) examinations and entry-level driving positions.

Training emphasizes:

- Safety and regulatory compliance
- Vehicle inspection procedures
- Backing and maneuvering
- Cargo handling and road operation

Students must possess a valid driver's license and a DOT physical form.

Courses

- CVOP 1005 – Commercial Driver's License Written Skills (50 Contact Hours)
- CVOP 1040 – Professional Truck Driver II (150 Contact Hours)

Advising Notes

- These programs are non-credit and do not award semester credit hours.
- Completion results in a certificate of completion, not an academic degree.
- Some programs lead to state or national licensure/certification eligibility, but certification is not guaranteed.

- Entrance requirements may include background checks, drug screening, health documentation, driving records, or other prerequisites.
- Financial aid eligibility varies by program; students should consult Continuing Education and Financial Aid.

Registered Department of Labor Apprenticeship Programs

Earn-While-You-Learn Pathways

Overview

Registered Apprenticeship Programs are earn-while-you-learn workforce pathways that combine paid employment, Related Technical Instruction (RTI) provided by Paris Junior College, and On-the-Job Training (OJT) delivered by a participating employer.

In these programs:

- The student is employed for the duration of the apprenticeship
- An eligible employer hires and sponsors the apprentice
- Apprentices are paid according to an established progressive wage scale
- Apprentices complete classroom instruction at Paris Junior College and structured OJT with the employer
- Upon successful completion, apprentices receive a U.S. Department of Labor (DOL) credential

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Airframe Mechanic Apprenticeship

336 Contact Hours (RTI)
4,000 On-the-Job Training (OJT) Hours
CIP Code: 47.0607

The Airframe Mechanic Apprenticeship is a two-year paid training program that integrates employer-based experience with technical instruction to prepare participants for Airframe Mechanic pathways. This training program does not allow students to sit for the FAA Licensure Exams.

Apprentices work under the supervision of FAA-certified mechanics, gaining experience in:

- Aircraft structures and systems
- Inspection, repair, and maintenance of airframe components
- Shop practices and electrical fundamentals

Students apply for and are sponsored by an employer to participate in this apprenticeship.

Related Technical Instruction (RTI) – 336 Contact Hours

- AERM 1001 – Introduction to Aviation (28 Contact Hours)
- AERM 1003 – Shop Practices (64 Contact Hours)
- AERM 1014 – Basic Electricity (64 Contact Hours)
- AERM 1052 – Aircraft Sheet Metal (96 Contact Hours)
- AERM 1000 – Aircraft Structural Manufacturing (84 Contact Hours)

Industrial Maintenance Apprenticeship

336 Contact Hours (RTI)
4,000 On-the-Job Training (OJT) Hours
CIP Code: 15.0403

The Industrial Maintenance Apprenticeship is an employer-sponsored program that prepares participants for careers repairing and maintaining industrial machinery and automated systems.

Apprentices develop skills in:

- Electrical and electronic systems
- Fluid power (hydraulics and pneumatics)
- Mechanical drives and automation
- Robotics and industrial troubleshooting

Participants are employed and sponsored by a participating employer and typically receive progressive wage increases as skills and competencies are achieved.

Related Technical Instruction (RTI) – 336 Contact Hours

- OSHT 1016 – Material Handling (48 Contact Hours)
- INMT 2003 – Pumps, Compressors & Mechanical Drives (64 Contact Hours)
- HYDR 1045 – Hydraulics & Pneumatics (64 Contact Hours)
- ELMT 2033 – Industrial Electronics (48 Contact Hours)
- RBTC 1005 – Robotic Fundamentals (64 Contact Hours)
- INMT 1017 – Industrial Automation (48 Contact Hours)

Advising Notes

- Registered Apprenticeships are not open-enrollment programs; students must be hired and sponsored by an eligible employer.

- Apprenticeships combine paid employment, classroom instruction, and structured OJT.
- RTI is delivered by Paris Junior College in alignment with DOL-approved apprenticeship standards.
- Completion results in a portable U.S. Department of Labor credential.
- Wage progression, schedules, and employer requirements are governed by the registered apprenticeship standards.

Course Descriptions

AERM 1001 Introduction to Aviation **28 Contact Hours**

An overview of aviation maintenance including the history of aviation, the mechanic's roles and duties, and nomenclature of aircraft and safety. Not FAA Approved.

AERM 1003 Shop Practices **64 Contact Hours**

An introduction to shop safety, the correct use of hand tools, equipment, and precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures. Not FAA Approved.

AERM 1014 Basic Electricity **64 Contact Hours**

A study of aircraft electrical systems and their requirements including the use of ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions. Fundamentals of safety also addressed. Not FAA Approved.

AERM 1052 Aircraft Sheet Metal **96 Contact Hours**

Skill development in inspection and repair of sheet metal structures including forming, laying out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners. Fundamentals of safety procedures also addressed. Not FAA Approved.

AERM 1000 Aircraft Structural Manufacturing **84 Contact Hours**

Manufacturing sheet metal structures. Includes inspection and layout or repair of metallic, composite, or bonded structures. It also covers identification, selection, and installation of conventional or special fasteners. Not FAA Approved.

AERM 1205 Weight and Balance **2.1.3**

Course Description: An introduction to Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight-and-balance calculations, and appropriate maintenance record entries. Fee Charged. Pending FAA approval.

AERM 1208 Federal Aviation Regulations **2.1.3**

Course Description: A course in the use and understanding of Federal Aviation Administration (FAA) and aircraft manufacturers' publications, forms, and records; and the exercise of mechanic privileges within prescribed limitations. Fee Charged. Pending FAA approval.

AERM 1210 Ground Operations **2.1.3**

Course Description: An introductory course in fuels, servicing methods, safety procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control. Fee Charged. Pending FAA approval.

AERM 1241 Wood, Fabric, and Finishes **2.1.3**

Course Description: A course in the use and care of various covering materials, finishes, and wood structures including approved methods and procedures. Safety also addressed. Fee Charged. Pending FAA approval.

AERM 1243 Instruments and Navigation/Communication **2.1.3**

Course Description: A study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations. Fee Charged. Pending FAA approval.

AERM 1253 Aircraft Welding **2.1.3**

Course Description: Skill development in repair procedures for steel, magnesium, brass, and aluminum materials. Includes the selection and application of appropriate methods of welding, brazing, and soldering. Fundamentals of safety procedures also addressed. Fee Charged. Pending FAA approval.

AERM 1303 Shop Practices **3.1.4**

Description: An introduction to shop safety, the correct use of hand tools, equipment, and precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures. Fee Charged. Pending FAA approval.

AERM 1314 Basic Electricity **3.1.4**

Course Description: A study of aircraft electrical systems and their requirements including

the use of ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions. Fundamentals of safety also addressed. Fee Charged. Pending FAA approval.

AERM 1315 Aviation Science **3.1.4**

Course Description: Fundamentals of mathematics, physics, and drawings as they apply to aircraft principles and operations as required by the Federal Aviation Administration (FAA) for airframe and powerplant mechanics. Fee Charged. Pending FAA approval.

AERM 1345 Airframe Electrical Systems **3.1.4**

Course Description: A study of airframe electrical systems including installation, removal, disassembly, and repair of electrical components and related wiring. Fundamentals of electrical safety also addressed. Fee Charged. Pending FAA approval.

AERM 1347 Airframe Auxiliary Systems **3.1.4**

Course Description: A comprehensive study of airframe auxiliary systems including cabin atmospheric control systems, ice and rain control systems for aircraft and engines, and fire detection and protection systems. Fundamentals of safety procedures also addressed. Fee Charged. Pending FAA approval.

AERM 1349 Hydraulic, Pneumatic, and Fuel Systems **3.1.4**

Course Description: Skill development in inspecting, servicing, and maintaining aircraft fluid systems including hydraulics, pneumatics, and fuel. Application of concepts through detailed maintenance procedures. Fundamentals of safety procedures also addressed. Fee Charged. Pending FAA approval.

AERM 1350 Landing Gear Systems **3.1.4**

Course Description: General principles of inspection, servicing, overhaul, and repair of fixed and retractable landing gear systems and the operation and repair of position and warning systems. Includes coverage of systems, components, operation, and fundamentals of safety procedures. Fee Charged. Pending FAA approval.

AERM 1352 Aircraft Sheet Metal **3.1.6**

Course Description: Skill development in inspection and repair of sheet metal structures including forming, lay out, and bending of sheet metal and identification, selection, and installation of rivets and fasteners. Fundamentals of safety procedures also addressed. Fee Charged. Pending FAA approval.

AERM 1354 Aircraft Composites **3.1.4**

Course Description: Comprehensive concepts of the inspection and repair of composite, fabric, core, and laminated structural materials including doors, windows, bonded

structures, and interior furnishings. Safety procedures to include the handling and storage of composite materials will also be addressed. Fee Charged. Pending FAA approval.

AERM 2230 FAA Review, Airframe 2.1.3

Course Description: Review of Federal Aviation Administration subject matter in the General and Airframe curricula with an emphasis on enhancing knowledge and physical skills in preparing for the FAA-required written, oral and practical examinations. Fee Charged. Pending FAA approval.

AERM 2231 Airframe Inspection 2.1.3

Course Description: In-depth coverage of methods and procedures to perform airframe conformity and air worthiness inspections (including One Hundred Hour Inspections) in accordance with Federal Aviation Regulations and manufacturer's service information. Safety procedures will also be addressed. Fee Charged. Pending FAA approval.

AERM 2233 Assembly and Rigging 2.1.3

Course Description: A comprehensive study of the assembly and rigging of fixed and rotary-wing aircraft including structural alignment, balancing and rigging of control systems, and assembly of aircraft components. Fundamentals of safety procedures are also addressed. Fee Charged. Pending FAA approval.

ACCT 2301 Principles of Financial Accounting (52.0301.51 04) 3.3.1

This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS). Recommended corequisite: MATH 1324 Mathematics for Business & Social Sciences.

ACCT 2302 Principles of Managerial Accounting (52.0301.51 04) 3.3.1

This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation. Prerequisite: ACCT 2301.

ACNT 1303 Introduction to Accounting I **3.2.2**

A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. Fee Charged.

ACNT 1311 Introduction to Computerized Accounting **3.2.4**

Introduction to utilizing the computer in maintaining accounting records with primary emphasis on a general ledger package. The student will utilize an ap- plication software to perform accounting tasks; maintain records; prepare reports; analyze reports for a business entity; complete a comprehensive project; and explain the components of general ledger software. Fee charged.

AGRI 1131 The Agricultural Industry (01.0103.52 01) **1.1.0**

Overview of agriculture and the American agricultural system, including an examination of career opportunities and requirements.

AGRI 1309 Computers in Agriculture (01.0101.51 01) **3.2.2**

Use of computers in agricultural applications. Introduction to programming languages, word processing, electronic spreadsheets and agricultural software. Fee charged.

AGRI 1311 Dairy Science (01.0905.51 01) **3.2.3**

Survey of the dairy industry including dairy breeds, standards for selection and culling, herd replacements, feeding, management, physiology, and health maintenance. Food value for milk, tests for composition and quality, and use and processing of market milk and dairy products. Fee charged.

AGRI 1325 Marketing of Agricultural Products (01.0102.51 01) **3.3.0**

Essential marketing functions in the movement of agricultural commodities and products from producer to consumer.

AGRI 1329 Principles of Food Science (01.1001.51 01) **3.3.1**

Biological and scientific aspects of modern industrial food supply systems. Food classification, modern processing, and quality control.

AGRI 1407 Agronomy (01.1102.51 01) **4.3.3**

Principles and practices in development, production and management of field crops; plant breeding; plant diseases; soils; and insect and weed control. Laboratory activities will reinforce the fundamental principles and practices in the development, production, and management of field crops including growth and development, climate, plant requirements, pest management, and production methods. Fee charged.

AGRI 1415 Horticulture (01.0601.51 01) **4.3.3**

Structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management. Laboratory activities will reinforce the structure, growth, and development of horticultural plants. Examination of environmental effects, basic principles of reproduction, production methods ranging from outdoor to controlled climates, nutrition, and pest management. Fee charged.

AGRI 1419 Introductory Animal Science (01.0901.51 01) 4.3.3

Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock. Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock. Fee charged.

AGRI 2317 Introduction to Agricultural Economics (01.0103.51 01) 3.3.0

Fundamental economic principles and their application in the agricultural industry.

AGRI 2321 Livestock Evaluation (01.0901.52 01) 3.2.4

Evaluation and grading of market cattle, swine, sheep, and goats and their carcasses and wholesale cuts. Emphasis will be placed on value determination. Selection and evaluation of breeding cattle, sheep, swine, and goats with emphasis on economically important traits. Fee charged.

AGRI 2330 Wildlife Conservation & Management (03.0601.51 01) 3.2.2

Principles and practices used in the production and improvement of wildlife resources. Aesthetic, ecological and recreational uses of public and private lands. Fee charged.

ARTS 1301 Art Appreciation (50.0703.51 26) 3.3.0

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts.

ARTS 1303 Art History I (50.0703.52 26) 3.3.0

A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century.

ARTS 1304 Art History II (50.0703.52 26) 3.3.0

A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day.

ARTS 1311 Design I (50.0401.53 26) 3.2.4

An introduction to the fundamental terminology, concepts, theory, and application of two-dimensional design. Fee charged.

ARTS 1312 Design II (50.0401.53 26) 3.2.4

An introduction to the fundamental terminology, concepts, theory, and application of three-dimensional design. Fee charged.

ARTS 1316 Drawing I (50.0705.52 26) 3.2.4

A foundation studio course exploring drawing with emphasis on descriptive, expressive, and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will engage in critical analysis and being to develop their understanding of drawing as a discipline. Fee charged.

ARTS 1317 Drawing II (50.0705.52 26) 3.2.4

A studio course exploring drawing with continued emphasis on descriptive, expressive, and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline. Fee charged. Prerequisite: ARTS 1316 or consent of instructor.

ARTS 2311 Design III (Color Theory) (50.0401.53 26) 3.2.4

Studio art is a theoretical and practical study of color and composition in art and design. The course consists of studio-based projects using the formal and conceptual aspects of color. The course also examines the functions of color in art from different historical and cultural perspectives. Fee charged.

ARTS 2316 Painting I (50.0708.52 26) 3.2.4

Studio art course that introduces the fundamental principles, materials, and techniques of painting. Fee charged. Prerequisites: ARTS 1317, 2317 or consent of instructor.

ARTS 2317 Painting II (50.0708.52 26) 3.2.4

Studio art course that furthers the study of the principles, materials, and techniques of painting. Fee charged. Prerequisite: ARTS 2316 or consent of instructor.

ARTS 2323 Life Drawing (50.0705.53 26) 3.2.4

Studio art course that introduces the analytic study of the human form and the figure's potential for compositional and expressive use in drawing. Fee charged. Prerequisite: ARTS 1316.

ARTS 2326 Sculpture (50.0709.51 26) 3.2.4

A studio art course that introduces the materials, processes, and issues pertaining to the making of three-dimensional objects and environments. The course explores the use of varied materials and techniques along with the formal and conceptual principles that form the basis of contemporary sculpture. Fee charged. Prerequisite: ARTS 1312 or consent of

instructor.

ARTS 2341 Metals (50.0713.51 26) 3.2.4

A studio art course that introduces metalsmithing using basic techniques in jewelry design and metal construction. The course provides instruction and practical fabrication experience as it relates to the design and production of small-scale functional and/or non-functional objects. Fee charged. Prerequisite: ARTS 1311 or consent of instructor.

ARTS 2346 Ceramics I (50.0711.51 26) 3.2.4

A studio art course that introduces basic building, throwing, and other techniques as it relates to the design and production of ceramic sculpture and pottery. Fee charged.

ARTS 2347 Ceramics II (50.0711.51 26) 3.2.4

A studio art course that furthers the study of building, throwing, and other techniques as it relates to the design and production of ceramic sculpture and pottery. Fee charged. Prerequisite: ARTS 2346 or consent of instructor.

ARTS 2348 Digital Media (50.0402.52 26) 3.2.4

Studio art course that introduces the potential of basic digital media manipulation and graphic creation. The course emphasizes still and time-based media. Fee charged.

ARTS 2356 Photography I (fine arts emphasis) (50.0605.51 26) 3.2.4

A studio art course that introduces the technical and conceptual basics of photography as a creative medium. Fee charged.

ARTS 2357 Photography II (fine arts emphasis) (50.0605.52 26) 3.2.4

A studio art course that furthers the study of the technical and conceptual basics of photography as a creative medium. Fee charged. Prerequisite: ARTS 2356 or its equivalent.

BCIS 1305 Business Computer Applications (11.0202.54 04) 3.2.2

Introduces and develops foundational skills in applying essential and emerging business productivity information technology tools. The focus of this course is on business productivity software applications, including word processing, spreadsheets, databases, presentation graphics, data analytics, and business-oriented utilization of the internet. (BCIS 1305 is included in the Business Field of Study.). Fee charged.

BIOL 1322 Nutrition & Diet Therapy (19.0501.51 09) 3.3.0

This course introduces general nutritional concepts in health and disease and includes practical applications of that knowledge. Special emphasis is given to nutrients and nutritional processes including functions, food sources, digestion, absorption, and metabolism. Food safety, availability, and nutritional information including food labels, advertising, and nationally established guidelines are addressed.

BIOL 1406 Biology for Science Majors I (26.0101.51 03) 4.3.3

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Laboratory activities will reinforce these fundamental principles of living organisms. Fee charged.

BIOL 1407 Biology for Science Majors II (26.0101.51 03) 4.3.3

The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. It is recommended to complete BIOL 1406 before attempting this course but is not required. Fee charged.

BIOL 1408 Biology for Non-Science Majors I (26.0101.51 03) 4.3.3

Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Fee charged.

BIOL 1409 Biology for Non-Science Majors II (26.0101.51 03) 4.3.3

This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Fee charged.

BIOL 2306 Environmental Biology (26.1305.51. 03) 3.3.1

Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. Fee charged. Prerequisite: two semesters of Biology or consent of instructor.

BIOL 2401 Anatomy & Physiology I (26.0707.51 03) 4.3.3

Anatomy & Physiology I is the first part of a two-course sequence. It is a study of the structure and function of the human body including cells, tissues, and organs of the following systems: integumentary, skeletal, muscular, nervous and special senses. Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides hands-on learning experience for exploration of human system components and basic physiology. Systems to be studied include integumentary, skeletal, muscular, nervous, and special senses. Fee charged.

BIOL 2402 Anatomy & Physiology II (26.0704.51 03) 4.3.3

Anatomy & Physiology II is the second part of a two-course sequence. It is a study of the structure and function of the human body including the following systems: endocrine, cardiovascular, immune, lymphatic, respiratory, digestive (including nutrition), urinary (including fluid and electrolyte balance), and reproductive (including human development and genetics). Emphasis is on interrelationships among systems and regulation of physiological functions involved in maintaining homeostasis. The lab provides hands-on learning experience for exploration of human system components and basic physiology. Fee charged.

BIOL 2420 Microbiology for Non-Science Majors (26.0503.51 03) 4.3.4

This course covers basic microbiology and immunology and is primarily directed at pre-nursing, pre-allied health, and non-science majors. It introduces historical concepts of the nature of microorganisms, microbial diversity, the importance of microorganisms and acellular agents in the biosphere, and their roles in human and animal diseases. Major topics include bacterial structure as well as growth, physiology, genetics, and biochemistry of microorganisms. Emphasis is on medical microbiology, infectious diseases, and public health. Lab activities cover basics of culture and identification of bacteria and microbial ecology. Fee charged.

BIOL 2421 Microbiology for Science Majors (26.0502.51 03) 4.3.4

Principles of microbiology, including metabolism, structure, function, genetics, and phylogeny of microbes. The course will also examine the interactions of microbes with each other, hosts, and the environment. Fee Charged

BMGT 1327 Principles of Management 3.3.1

Concepts, terminology, principles, theories, and issues in the field of management. The course will have students explain and apply the various theories, processes, and functions of management; identify roles of leadership in organizations; and recognize elements of the communication process.

BMGT 2388 Internship - Business Administration and Management 3.0.9

The internship is a work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. The learning plan developed by the college and the employer allows the student to apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Fee charged.

BUSG 1301 Introduction to Business 3.3.0

Fundamental business principles including structure, functions, resources, and operational processes. The student will identify business functions of accounting, management,

marketing, and economics; and describe the relationships of social responsibility, ethics, and law; and describe the scope of global business enterprise.

BUSG 1304 Financial Literacy 3.3.0

A study of the financial principles when managing financial affairs. Includes topics such as budgeting, retirement, property ownership, savings, and investment planning. The student will identify the concepts associated with the time value of money; identify the differences among various savings and investment programs and classes of securities; identify the options for insurance; describe retirement and estate planning techniques; explain owning versus renting real property; and describe consumer protection legislation.

BUSG 2309 Small Business Management/Entrepreneurship 3.2.2

Starting, operating, and growing a small business. Includes essential management skills, how to prepare a business plan, accounting, financial needs, staffing, marketing strategies, and legal issues. The student will identify management skills for a small business; outline issues related to choosing a business, obtaining a return on investment; and create a business plan.

BUSI 1301 Business Principles (52.0101.51 24) 3.3.0

This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life.

BUSI 2301 Business Law (52.0101.51 24) 3.3.0

The course provides the student with foundational information about the U.S. legal system, dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context. Prerequisite: High school coursework in U.S. history and government, or equivalent.

CDEC 1017 Child Development Training I 60 Contact Hours

Based on the requirements for the Child Development Associate credential (CDA). Topics include CDA overview, observation skills, and child growth and development. The four functional areas of study are creative, cognitive, physical, and communication.

CDEC 2022 Child Development Training II 60 Contact Hours

A continuation of the study of the requirements for the Child Development Associate credential (CDA). The six functional areas of study include safe, healthy, learning environment, self, social, and guidance.

CETT 1009 DC-AC Circuits 64 Contact Hours

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

CETT 1349 Digital Systems 3.2.2

A course in electronics covering digital systems. Emphasis on application and troubleshooting digital systems. Prerequisite: Instructor approval. Fee charged.

CETT 1409 DC-AC Circuits 4.3.2

Fundamentals of DC circuits and AC circuits operation including Ohm’s law, Kirchhoff’s laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Prerequisite: Instructor approval. Fee charged.

CHEM 1405 Introductory Chemistry I (40.0501.51 03) 4.3.3

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. Fee charged.

CHEM 1406 Introductory Chemistry I (allied health) (40.0501.51 03) 4.3.3

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. Fee charged.

CHEM 1407 Introductory Chemistry II (40.0501.51 03) 4.3.3

Survey course introducing chemistry. Topics may include inorganic, organic, biochemistry, food/physiological chemistry, and environmental/consumer chemistry. Designed for non-science and allied health students. Fee charged.

CHEM 1411 General Chemistry I (40.0501.54 03) 4.3.3

Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. Basic laboratory experiments supporting theoretical principles presented in the course; introduction of the scientific method, experimental design, data collection and analysis, and preparation of laboratory reports. Fee charged. Prerequisite: MATH 1314 or equivalent academic preparation.

CHEM 1412 General Chemistry II (40.0501.57 03) 4.3.3

Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. Basic laboratory experiments supporting theoretical principles presented in the course, including introduction of the scientific method, experimental design, chemical instrumentation, data collection and analysis, and preparation of laboratory reports. Fee charged. Prerequisite: CHEM 1411.

CHEM 2423 Organic Chemistry I (40.0504.52 03) 4.3.4

Fundamental principles of organic chemistry will be studied, including the structure, bonding, properties, and reactivity of organic molecules as well as properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. Laboratory activities will reinforce fundamental principles of organic chemistry, as previously listed. Methods for the purification and identification of organic compounds will be examined. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS. Fee charged. Prerequisite: CHEM 1412 or 1407 with consent of instructor.

CHEM 2425 Organic Chemistry II (40.0504.52 03) 4.3.4

Advanced principles of organic chemistry will be studied, including the structure, properties, and reactivity of aliphatic and aromatic organic molecules as well as properties and behavior of organic compounds and their derivatives. Emphasis is placed on organic synthesis and mechanisms. Includes study of covalent and ionic bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups, and synthesis of simple molecules. Laboratory activities reinforce advanced principles of organic chemistry, as previously listed. THIS COURSE IS INTENDED FOR STUDENTS IN SCIENCE OR PRE-PROFESSIONAL PROGRAMS. Fee charged. Prerequisite: CHEM 2423.

CJLE 1006 Basic Peace Officer I 176 Contact Hours

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer II, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1011 Basic Firearms 64 Contact Hours

Firearm safety, cleaning and care techniques, proper shooting principles, and firearm proficiency. This course was designed to be repeated multiple times if content varies. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1012 Basic Peace Officer II **176 Contact Hours**

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, III, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1018 Basic Peace Officer III **176 Contact Hours**

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, IV, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJLE 1024 Basic Peace Officer IV **176 Contact Hours**

Basic preparation for a new peace officer. Should be taken in conjunction with Basic Peace Officer I, II, III, and V (supplement) to satisfy the Texas Commission on Law Enforcement approved Basic Peace Officer Training Academy. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS LICENSED AS A POLICE ACADEMY BY Texas Commission on Law Enforcement.***

CJSA 1393 Special Topics in Criminal Justice Studies **3.2.4**

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

CJSA 2364 Practicum - Criminal Justice/Safety Studies **3.0.21**

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Prerequisite: Consent of Instructor.

CNBT 2310 Commercial/Industrial Blueprint Reading **3.3.0**

Blueprint reading for commercial/industrial construction. Fee charged.

COMM 1307 Introduction to Mass Communications (09.0102.51 06) **3.3.0**

Survey of basic content and structural elements of mass media and their functions and influences on society. For journalism majors and non-majors.

COMM 2305 Editing and Layout (09.0401.51 06) **3.2.4**

Editing and layout processes, with emphasis on accuracy and fairness, including the principles and techniques of design.

COMM 2311 Media Writing (09.0401.57 06) 3.2.4

Fundamentals of writing for the mass media. Includes instruction in professional methods and techniques for gathering, processing, and delivering content.

COMM 2315 News Reporting (09.0401.58 06) 3.2.4

This course focuses on advanced news-gathering and writing skills. It concentrates on the three-part process of producing news stories: discovering the news, reporting the news, and writing the news in different formats. Prerequisite: COMM 2311.

COMM 2327 Introduction to Advertising (09.0903.51 06) 3.3.0

Fundamentals of advertising including marketing theory and strategy, copy writing, design, and selection of media.

COMM 2332 Radio/Television News (09.0402.52 06) 3.2.4

Preparation and analysis of news styles for the electronic media.

COSC 1301 Introduction to Computing (11.0101.51 07) 3.2.2

Overview of computer systems hardware, operating systems, and microcomputer application software, including the Internet, word processing, spreadsheets, presentation graphics, and databases. Current topics such as the effect of computers on society, and the history and use of computers in business, educational, and other modern settings are also studied. This course is not intended to count toward a student's major field of study in business or computer science. Fee charged.

COSC 1336 Programming Fundamentals I (11.0201.55 07) 3.2.4

Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is not intended for computer science majors. Fee charged.

COSC 1337 Programming Fundamentals II (11.0201.56 07) 3.2.4

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. Prerequisite: COSC 1336. This course is not intended for computer science majors. Fee charged.

COSC 1436 Programming Fundamentals I (11.0201.55 07) 4.3.3

Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. THIS COURSE IS INCLUDED IN THE FIELD OF STUDY CURRICULUM FOR COMPUTER SCIENCE and STEM ONLY. ALL OTHER STUDENTS SHOULD TAKE COSC 1336. Fee charged.

COSC 1437 Programming Fundamentals II (11.0201.56 07) 4.3.3

This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. THIS COURSE IS INCLUDED IN THE FIELD OF STUDY CURRICULUM FOR COMPUTER SCIENCE and STEM ONLY. ALL OTHER STUDENTS SHOULD TAKE COSC 1337. Prerequisite: COSC 1436. Fee charged.

CRIJ 1301 Introduction to Criminal Justice (43.0104.51 24) 3.3.0

This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes. (This course is included in the Field of Study Curriculum for Criminal Justice.)

CRIJ 1306 Court Systems & Practices (43.0104.54 24) 3.3.0

This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law. (This course is included in the Field of Study Curriculum for Criminal Justice.)

CRIJ 1307 Crime in America (45.0401.52 25) 3.3.0

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime.

CRIJ 1310 Fundamentals of Criminal Law (43.0104.54 24) 3.3.0

This course is the study of criminal law including application of definitions, statutory elements, defenses and penalties using Texas statutes, the Model Penal Code, and case law. The course also analyzes the philosophical and historical development of criminal law and criminal culpability. (This course is included in the Field of Study Curriculum for Criminal Justice.)

CRIJ 1313 Juvenile Justice System (43.0104.52 24) 3.3.0

A study of the juvenile justice process to include specialized juvenile law, role of the juvenile

law, role of the juvenile courts, role of police agencies, role of correctional agencies, and theories concerning delinquency.

CRIJ 2301 Community Resources in Corrections (43.0104.53 24) 3.3.0

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment.

CRIJ 2313 Correctional Systems & Practices (43.0104.54 24) 3.3.0

This course is a survey of institutional and non-institutional corrections. Emphasis will be placed on the organization and operation of correctional systems; treatment and rehabilitation; populations served; Constitutional issues; and current and future issues. (This course is included in the Field of Study Curriculum for Criminal Justice.)

CRIJ 2314 Criminal Investigation (43.0104.55 24) 3.2.3

Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

CRIJ 2323 Legal Aspects of Law Enforcement (43.0104.56 24) 3.3.0

Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability.

CRIJ 2328 Police Systems & Practices (43.0104.57 24) 3.3.0

This course examines the establishment, role, and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interaction, police ethics, and use of authority. (This course is included in the Field of Study Curriculum for Criminal Justice.)

CVOP 1005 Commercial Driver's License Written Skills 50 Contact Hours

Overview of the State of Texas Class A Commercial Driver's License written test. In-depth coverage of general knowledge, air brakes, combination vehicle, doubles and triples, tankers, and hazardous materials. Includes preparation for mastery of the Commercial Driver's License written examination.

CVOP 1040 Professional Truck Driver II 150 Contact Hours

A continuation of Professional Truck Driver I. General truck driving with hands-on skill development and instruction coordinated with the Department of Transportation.

DFTG 1305 Technical Drafting 3.2.2

Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, projection methods, geometric construction, sections, and

auxiliary views. Fee Charged.

DFTG 1309 Basic Computer-Aided Drafting 3.2.2

An introduction to computer-aided drafting. Emphasis is placed on setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinate systems, and plot/print to scale. Fee Charged.

DFTG 1317 Architectural Drafting - Residential 3.2.2

Architectural drafting procedures, practices, terms, and symbols. Preparation of detailed working drawings for residential structures. Emphasis on light frame construction methods. Fee Charged.

DFTG 1325 Blueprint Reading and Sketching 3.2.2

An introduction to reading and interpreting working drawings for fabrication processes and associated trades. Use of sketching techniques to create pictorial and multiple-view drawings. Fee Charged. Prerequisite: Instructor approval.

DFTG 1330 Civil Drafting 3.2.2

Preparation of civil drawings including drafting methods and principles used in civil engineering. Fee Charged.

DFTG 1333 Mechanical Drafting 3.2.2

Preparation of mechanical drawings including dimensioning and tolerances, sectioning techniques, orthographic projection, and pictorial drawings. Fee Charged.

DFTG 1345 Parametric Modeling and Design 3.2.2

Parametric-based design software for 3D design and drafting. Fee Charged. Prerequisite: Instructor approval.

DFTG 1358 Electrical/Electronics/Drawing 3.2.4

Electrical and electronic drawings stressing modern representation used for block diagrams, schematic diagrams, logic diagrams, wiring/assembly drawings, printed circuit board layouts, motor control diagrams, power distribution diagrams, and electrical one-line diagrams. Fee charged.

DFTG 1381 Cooperative Education - Drafting & Design Technology 3.1.20

Career-related activities encountered in the student's area of specialization offered through an individual agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Prerequisite: Instructor approval. Fee Charged.

DFTG 1391 Special Topics In Drafting and Design Technology 3.2.4

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Fee Charged.

DFTG 2302 Machine Drafting 3.2.4

Production of detail and assembly drawings of machines, threads, gears, utilizing tolerances, limit dimensioning, and surface finishes. Fee Charged.

DFTG 2312 Technical Illustration and Presentation 3.2.2

Study of pictorial drawings including isometrics, obliques, perspectives, charts, and graphs. Emphasis on rendering and using different media. Fee Charged.

DFTG 2317 Descriptive Geometry 3.2.4

Graphical solutions to problems involving points, lines, and planes in space. Fee Charged.

DFTG 2319 Intermediate Computer-Aided Drafting 3.2.2

A continuation of practices and techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data, and basics of 3D. Fee Charged.

DFTG 2321 Topographical Drafting 3.2.4

Plotting of surveyor's field notes. Includes drawing elevations, contour lines, plan and profiles, and laying out traverses. Fee Charged.

DFTG 2323 Pipe Drafting 3.2.4

A study of pipe fittings, symbols, specifications and their applications to a piping process system. Creation of symbols and their usage in flow diagrams, plans, elevations, and isometrics. Fee Charged.

DFTG 2328 Architectural Drafting - Commercial 3.2.2

Architectural drafting procedures, practices, governing codes, terms and symbols, including the preparation of detailed working drawings for a commercial building, with emphasis on commercial construction methods. Fee Charged. Prerequisite: Instructor approval.

DFTG 2331 Advanced Technologies in Architectural Design and Drafting 3.2.2

Use of architectural specific software to execute the elements required in designing standard architectural exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential/commercial and industrial architecture. Fee Charged.

DFTG 2332 Advanced Computer-Aided Drafting 3.2.2

Application of advanced CAD techniques. Use a customized CAD system to create documents and/or solid models and use OLE with external software. Fee Charged. Prerequisite: Instructor approval.

DFTG 2338 Final Project - Advanced Drafting 3.2.2

A drafting course in which students participate in a comprehensive project from conception to conclusion. Fee Charged. Prerequisite: Instructor approval.

DFTG 2340 Solid Modeling/Design 3.2.2

A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work. Fee Charged. Prerequisite: Instructor approval.

DMSO 1110 Introduction to Sonography 1.1.1

An introduction to the profession of sonography and the role of the sonographer. Emphasis on medical terminology, ethical/legal aspects, written and verbal communication, and professional issues relating to registry, accreditation, professional organizations and history of the profession. Fee charged.

DMSO 1260 Clinical - Diagnostic Medical Sonography/Sonographer 2.0.12

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

DMSO 1261 Clinical - Diagnostic Medical Sonography 2.0.12

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

DMSO 1302 Basic Ultrasound Physics 3.2.2

Basic acoustic physics and acoustic waves in human tissue. Emphasis on ultrasound transmission in soft tissues, attenuation of sound energy, parameters affecting sound transmission, and resolution of sound beams. Fee charged.

DMSO 1341 Abdominopelvic Sonography 3.2.4

Normal anatomy and physiology of abdominal and pelvic cavities as related to scanning techniques, transducer selection, and scanning protocols. Fee charged.

DMSO 1342 Intermediate Ultrasound Physics 3.2.2

Continuation of Basic Ultrasound Physics. Includes interaction of ultrasound with tissues,

mechanics of ultrasound production and display, various transducer designs and construction, quality assurance, bioeffects, and image artifacts. May introduce methods of Doppler flow analysis. Fee charged.

DMSO 2130 Advanced Ultrasound and Review 1.0.3

Knowledge, skills, and professional values within a legal and ethical framework addressing emerging technologies and professional development. Fee charged.

DMSO 2305 Sonography of Obstetrics/Gynecology 3.2.2

Detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Fee charged.

DMSO 2341 Sonography of Abdominopelvic Pathology 3.2.4

Pathologies and disease states of the abdomen and pelvis as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Emphasizes endo cavitary sonographic anatomy and procedures including pregnancy. Fee charged.

DMSO 2342 Sonography of High-Risk Obstetrics 3.2.2

Maternal disease and fetal abnormalities. Includes scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Fee charged.

DMSO 2351 Doppler Physics 3.2.2

Doppler and hemodynamic principles relating to arterial and venous imaging and testing. Fee charged.

DMSO 2353 Sonography of Superficial Structures 3.2.2

Detailed study of normal and pathological superficial structures as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Fee charged.

DMSO 2362 Clinical - Diagnostic Medical Sonography 3.0.16

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

DMSO 2366 Practicum - Diagnostic Medical Sonography 3.0.24

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

DNTA 1015 Chairside Assisting 100 Contact Hours

A study of pre-clinical chairside assisting procedures, instrumentation, OSHA and other regulatory agencies' standards.

DRAM 1120 Theater Practicum I (50.0506.53 26) 1.0.4

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. First semester of four- semester sequence.

DRAM 1121 Theater Practicum II (50.0506.53 26) 1.0.4

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. Second of a four-semester sequence.

DRAM 1310 Theater Appreciation (50.0501.51 26) 3.0.0

Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required.

DRAM 1322 Stage Movement (50.0506.54 26) 3.2.4

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor’s physical instrument.

DRAM 1330 Stagecraft I (50.0502.51 26) 3.2.4

Study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. Fee charged.

DRAM 1341 Stage Makeup (50.0502.52 26) 3.2.4

Design and execution of makeup for the stage performer. Includes discussion of basic makeup principles and practical experience of makeup application. Fee charged.

DRAM 1342 Costume Technology (50.0502.53 26) 3.2.4

Introduction to the process and application of the fundamental skills of costume production, modification, and maintenance. Fee charged.

DRAM 1351 Acting I (50.0506.51 26) 3.2.4

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor’s instrument: voice, body, and imagination.

DRAM 1352 Acting II (50.0506.51 26) 3.2.4

Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing,

character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body and imagination.

DRAM 2120 Theater Practicum III (50.0506.53 26) 1.0.4

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. Third semester of a four-semester sequence.

DRAM 2121 Theater Practicum IV (50.0506.53 26) 1.0.4

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. Fourth semester of a four-semester sequence.

DRAM 2331 Stagecraft II (50.0502.51 26) 3.2.4

Continued study and application of the methods and components of theatrical production which may include one or more of the following: theater facilities, scenery construction and painting, properties, lighting, costume, makeup, sound, and theatrical management. Fee charged. Prerequisite: DRAM 1330.

DRAM 2336 Voice for the Actor (50.0506.52 26) 3.3.0

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's vocal instrument.

DRAM 2366 Film Appreciation (50.0602.51 26) 3.2.2

Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures, and cinema's impact on and reflection of society. Fee charged.

ECON 2301 Principles of Macroeconomics (45.0601.51 25) 3.3.0

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, fiscal policy, and monetary policy.

ECON 2302 Principles of Microeconomics (45.0601.51 25) 3.3.0

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.

EDUC 1100 Learning Framework (42.2701.51 25) 1.1.0

A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and

weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as PSYC 1100)

EDUC 1200 Learning Framework (42.2701.51 25) 2.2.0

A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as PSYC 1200)

EDUC 1300 Learning Framework (42.2701.51 25) 3.3.0

A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as PSYC 1300)

EDUC 1301 Introduction to the Teaching Profession (13.0101.51 09) 3.3.1

An enriched, integrated pre-service course and content experience that provides active recruitment and institutional support of students interested in a teaching career, especially in high need fields. The course provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations and provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms. Course content should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Course must include a minimum of 16 contact hours of field experience in P-12 classrooms. Fee charged.

EDUC 2301 Introduction to Special Populations (13.1001.51 09) 3.3.1

An enriched, integrated pre-service course and content experience that provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity, and equity with an emphasis on factors that facilitate learning. The course provides students with opportunities to participate in early field observations of P-12 special populations and should be aligned as applicable with State Board for Educator Certification Pedagogy and Professional

Responsibilities standards. Must include a minimum of 16 contact hours of field experience in P-12 classrooms with special populations. Prerequisite: EDUC 1301. Fee charged.

ELMT 1380 Cooperative Education – Electromechanical Technology 3.1.19

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Note: Qualified employment is not provided by Paris Junior College and is the responsibility of the student. Fee charged.

ELMT 1391 Special Topics in Electromechanical Technology/Technician 3.2.4

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Fee charged.

ELMT 2033 Industrial Electronics 48 Contact Hours

Devices, circuits, and systems primarily used in automated manufacturing and/or process control including computer controls and interfacing between mechanical, electrical, electronic, and computer equipment.

ELMT 2333 Industrial Electronics 3.2.2

Devices, circuits, and systems primarily used in automated manufacturing and/or process control including computer controls and interfacing between mechanical, electrical, electronic, and computer equipment. Includes presentation of programming schemes. Fee charged.

ELMT 2337 Electronic Troubleshooting, Service, and Repair 3.2.2

In-depth coverage of electronic systems, maintenance, troubleshooting, and repair. Topics include symptom identification, proper repair procedures, repair checkout, preventive maintenance. Emphasis on safety and use of test equipment. May be offered as a capstone course. Fee charged.

ELPT 1021 Introduction to Electrical Safety and Tools 48 Contact Hours

Safety rules and regulations. Includes the selection, inspection, use, and maintenance of common tools for electricians.

ELPT 1221 Introduction to Electrical Safety and Tools 2.1.3

Safety rules and regulations. Includes the selection, inspection, use, and maintenance of common tools for electricians. Prerequisite: Instructor approval. Fee charged.

ELPT 1225 National Electrical Code I 2.2.0

An introductory study of the National Electric Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring design, protection, methods, and materials; equipment for general use; and basic calculations. Fee charged.

ELPT 1341 Motor Control **3.2.2**

Operating principles of solid-state and conventional controls along with their practical applications. Includes braking, jogging, plugging, safety interlocks, wiring, and schematic diagram interpretations. Fee charged.

ELPT 1351 Electrical Machines **3.2.2**

Direct current (DC) motors, single-phase and polyphase alternating current (AC) motors, generators, and alternators. Emphasis on construction, characteristics, efficiencies, starting, and speed control. Fee charged.

ELPT 1357 Industrial Wiring **3.2.4**

Wiring methods used for industrial installations. Includes motor circuits, raceway and bus way installations, proper grounding techniques, and associated safety procedures. Fee charged.

ELPT 1411 Basic Electrical Theory **4.3.3**

Basic theory and practice of electrical circuits. Includes calculations as applied to alternating and direct current. Fee charged.

ELPT 1429 Residential Wiring **4.2.6**

Wiring methods for single-family and multi-family dwellings. Includes load calculations, service entrance sizing, proper grounding techniques, and associated safety procedures. Fee charged.

ELPT 1445 Commercial Wiring **4.3.3**

Commercial wiring methods. Includes overcurrent protection, raceway panel board installation, proper grounding techniques, and associated safety procedures. Fee charged.

ELPT 2225 National Electrical Code II **2.2.0**

In-depth coverage of the National Electrical Code (NEC) for those employed in fields requiring knowledge of the Code. Emphasis on wiring protection and methods, special conditions, and advanced calculations. Fee charged.

ELPT 2323 Transformers **3.2.3**

Transformer types, construction, connections, protection, grounding, and associated safety procedures. Fee charged.

ELPT 2319 Programmable Logic Controllers I **3.2.2**

Fundamental concepts of programmable logic controllers, principles of operation, and numbering systems as applied to electronic controls. Fee charged.

ELPT 2355 Programmable Logic Controllers II **3.2.2**

Advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls. Fee charged.

EMSP 1160 Clinical - Emergency Medical Technology/Technician **1.0.6**

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

EMSP 1161 Clinical - Emergency Medical Technician (EMT Paramedic) **1.0.5**

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

EMSP 1162 Clinical - Emergency Medical Technician (EMT Paramedic) **1.0.6**

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

EMSP 1208 Emergency Vehicle Operations **2.1.3**

Discussion, demonstration, and driving range practice. Addresses operation of vehicles in emergency and non-emergency modes. Fee charged.

EMSP 1271 EMS Documentation **2.1.2**

This course is designed to describe and demonstrate what minimum content should be included in all types of emergency medical service patient care reports, including patient care reports, patient refusal reports, and no contact reports; the legal and financial requirements of documentation as well as information needed for quality improvement processes. Fee charged.

EMSP 1338 Introduction to Advanced Practice **3.1.4**

Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics. Fee charged.

EMSP 1355 Trauma Management **3.2.3**

Knowledge and skills in the assessment and management of patients with traumatic injuries. Fee charged.

EMSP 1356 Patient Assessment and Airway Management **3.2.2**

Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation. Fee charged.

EMSP 1501 Emergency Medical Technician 5.4.4

Preparation for certification as an Emergency Medical Technician (EMT). Fee charged.

EMSP 2143 Assessment Based Management 1.0.3

A summative experience covering comprehensive, assessment-based patient care management for the paramedic level. Fee charged.

EMSP 2160 Clinical - Emergency Medical Technician (EMT Paramedic) 1.0.6

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

EMSP 2205 EMS Operations 2.1.2

Knowledge and skills to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents. Fee charged.

EMSP 2266 Practicum - Emergency Medical Technician (EMT Paramedic) 2.0.14

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

EMSP 2306 Emergency Pharmacology 3.2.3

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Fee charged.

EMSP 2330 Special Populations 3.3.1

Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, pediatrics, geriatrics, and other related topics. Fee charged.

EMSP 2434 Medical Emergencies 4.3.4

Knowledge and skills in the assessment and management of patients with medical emergencies, including medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. Fee charged.

EMSP 2444 Cardiology 4.3.4

Assessment and management of patients with cardiac emergencies. Includes single and

multi-lead ECG interpretation. Fee charged.

ENGL 1301 Composition I (23.1301.51 12) 3.3.1

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

ENGL 1302 Composition II (23.1301.51 12) 3.3.1

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Prerequisite: ENGL 1301.

ENGL 2311 Technical and Business Writing (23.1303.51 12) 3.3.0

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, email messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

ENGL 2322 British Literature I (23.1404.51 12) 3.3.0

A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301.

ENGL 2323 British Literature II (23.1404.51 12) 3.3.0

A survey of the development of British literature from the Romantic period to the present. Students will study work of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301.

ENGL 2327 American Literature I (23.1402.51 12) 3.3.0

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301.

ENGL 2328 American Literature II (23.1402.51 12) 3.3.0

A survey of American literature from the Civil War to the present. Students will study works

of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. Prerequisite: ENGL 1301.

ENGL 2331 World Literature (16.0104.52 13) 3.3.0

A survey of world literature from the ancient world to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1301.

ENGR 2301 Engineering Mechanics - Statics (14.1101.52 10) 3.3.0

Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. Prerequisite: PHYS 2425.

ENGR 2302 Engineering Mechanics - Dynamics (14.1101.53 10) 3.3.0

Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. Prerequisite: ENGR 2301. Co-requisite: MATH 2415.

ENTC 1049 Reliability and Maintainability 64 Contact Hours

Equipment reliability and maintainability. Includes development and assessment of maintenance programs.

ENTC 1349 Reliability and Maintainability 3.2.2

Equipment reliability and maintainability. Includes development and assessment of maintenance programs.

GAME 1301 Computer Ethics 3.3.1

A study of ethical issues that apply to computer-related professions, intellectual property and privacy issues, professional responsibility, and the effects of globalization. Emphasizes the practical application of computer ethics through case studies and current events in the game and simulation industry.

GEOL 1401 Earth Sciences for Non-Science Majors I (40.0601.51 03) 4.3.3

Survey of geology, meteorology, oceanography, and astronomy. Laboratory activities will cover methods used to collect and analyze data in geology, meteorology, oceanography, and astronomy. Fee charged.

GEOL 1402 Earth Sciences for Non-Science Majors II (40.0601.51 03) 4.3.3

Extension of the study of geology, astronomy, meteorology and oceanography, focusing on

natural resources, hazards and climate variability. Laboratory activities will focus on methods used to collect and analyze data related to natural resources, hazards and climate variability. Prerequisite: GEOL 1401 or GEOL 1403. Fee charged.

GEOL 1403 Physical Geology (40.0601.54 03) 4.3.3

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Laboratory activities will cover methods used to collect and analyze earth science data. Fee charged.

GEOL 1404 Historical Geology (40.0601.54 03) 4.3.3

A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils. Fee charged. Prerequisite: GEOL 1403.

GERS 1301 Introduction to Gerontology 3.3.0

Overview of the social, psychological, and biological changes that accompany aging. Focuses on the implications of these changes for the individual, as well as for the larger society.

GOVT 2305 Federal Government (Federal constitution) (45.1002.51 25) 3.3.0

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. Note: It is recommended that students take both semesters of government at the same institution.

GOVT 2306 Texas Government (Texas constitution) (45.1002.51 25) 3.3.0

Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Note: It is recommended that students take both semesters of government at the same institution.

HART 1301 Basic Electricity for HVAC 3.2.2

Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. Fee charged. Prerequisite: instructor approval.

HART 1303 Air Conditioning Control Principles 3.2.2

A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits. Fee charged.

HART 1307 Refrigeration Principles **3.2.2**

An introduction to the refrigeration cycle, heat transfer theory, temperature/ pressure relationship, refrigerant handling, refrigeration components, and safety. Fee charged.

HART 1310 HVAC Shop Practices and Tools **3.2.2**

Tools and instruments used in the HVAC industry. Includes proper application, use, and care of these tools, and tubing and piping practices. Fee charged.

HART 1341 Residential Air Conditioning & Refrigeration **3.2.2**

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair and charging of air conditioning systems. Fee charged.

HART 1345 Gas and Electric Heating **3.2.2**

Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems. Fee charged.

HART 1351 Energy Management **3.2.2**

Study of basic heat transfer theory; sensible and latent heat loads; building envelope construction; insulation, lighting, and fenestration types; and conduct energy audit procedures. The course also develops energy audit recommendations based on local utility rates, building use, and construction. Laboratory activities include developing energy audit reports, installing energy-saving devices, and measuring energy consumption. Fee charged.

HART 1356 EPA Recovery Certification Preparation **3.2.2**

Certification training for HVAC refrigerant recovery, recycle, and reclaim. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigeration systems. Fee charged.

HART 1391 Special Topics in Heating, Air Conditioning & Refrigeration **3.2.2**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Fee charged.

HART 2331 Advanced Electricity for HVAC **3.2.2**

Advanced electrical instruction and skill building in installation and servicing of air conditioning and refrigeration equipment including detailed instruction in motors and power distribution motors, motor controls, and application of solid-state devices. Fee charged.

HART 2334 Advanced Air Conditioning Controls **3.2.2**

Theory and application of electrical control devices, electromechanical controls and/or pneumatic controls. Fee charged.

HART 2336 Air Conditioning Troubleshooting 3.2.2

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests. Fee charged.

HART 2338 Air Conditioning Installation & Startup 3.2.2

A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing. Fee charged.

HART 2341 Commercial Air Conditioning 3.2.2

A study of components, applications, and installation of air conditioning systems with capacities of 25 tons or less. Fee charged.

HART 2342 Commercial Refrigeration 3.2.2

Theory and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines. Fee charged.

HART 2343 Industrial Air Conditioning 3.2.2

A study of components, accessories, applications, and installation of air conditioning systems above 25 tons capacity. Fee charged.

HART 2345 Residential Air Conditioning Systems Design 3.2.2

Study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. Fee charged.

HART 2349 Heat Pumps 3.2.2

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow and other topics related to heat pump systems. Fee charged.

HART 2350 HVAC Zone Controls 3.2.2

Theory and application of HVAC residential Zone control devices, electromechanical controls, and/or pneumatic controls. Fee charged.

HART 2380 Cooperative Education - Heating, A/C and Refrigeration 3.1.19

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with

work experience. Includes a lecture component. Fee charged.

HIST 1301 United States History I (54.0102.51 25) 3.3.0

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

HIST 1302 United States History II (54.0102.51 25) 3.3.0

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

HIST 2301 Texas History (54.0102.52 25) 3.3.0

A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas.

HIST 2311 Western Civilization I (54.0101.54 25) 3.3.0

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations.

HIST 2312 Western Civilization II (54.0101.54 25) 3.3.0

A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism.

HIST 2321 World Civilizations I (54.0101.53 25) 3.3.0

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the emergence of human cultures through the 15th century. The course

examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include the emergence of early societies, the rise of civilizations, the development of political and legal systems, religion and philosophy, economic systems and trans-regional networks of exchange. The course emphasizes the development, interaction and impact of global exchange.

HIST 2322 World Civilizations II (54.0101.53 25) 3.3.0

A survey of the social, political, economic, cultural, religious, and intellectual history of the world from the 15th century to the present. The course examines major cultural regions of the world in Africa, the Americas, Asia, Europe, and Oceania and their global interactions over time. Themes include maritime exploration and transoceanic empires, nation/state formation and industrialization, imperialism, global conflicts and resolutions, and global economic integration. The course emphasizes the development, interaction, and impact of global exchange.

HITT 1301 Health Data Content and Structure 3.3.1

Introduction to systems and processes for collecting, maintaining, and disseminating primary and secondary health related information including content of health record, documentation requirements, registries, indices, licensing, regulatory agencies, forms, and screens. This course requires completion of HITT 1305, ITSC 1309, MDCA 1309, HPRS 2301, HPRS 2300. Prerequisite: Acceptance into the Medical Records Coding Program. Fee charged.

HITT 1305 Medical Terminology I 3.3.0

Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties. Fee charged.

HITT 1342 Ambulatory Coding 3.2.2

Fundamentals of ambulatory coding rules, conventions, and guidelines. This course requires concurrent enrollment in HITT 1441. Fee charged.

HITT 1345 Health Care Delivery Systems 3.3.0

Examination of delivery systems including organization, financing, accreditation, licensure, and regulatory agencies.

HITT 1441 Coding and Classification Systems 4.3.2

Fundamentals of coding rules, conventions, and guidelines using clinical classification systems. This course requires concurrent enrollment in HITT 1342. Fee charged.

HITT 2335 Coding and Reimbursement Methodologies 3.3.0

Advanced coding techniques with emphasis on case studies, health records, and federal regulations regarding prospective payment systems and methods of reimbursement.

HITT 2340 Advanced Medical Billing and Reimbursement 3.2.3

Skill development in coding to prepare reimbursement forms in various health care settings for submission to payors. The student will perform coding of health records using various classification systems; execute reimbursement forms; and apply revenue cycle management procedures. Fee charged.

HPRS 1201 Introduction to Health Professions 2.2.0

An overview of roles of various members of the health care system, educational requirements, and issues affecting the delivery of health care. Fee charged.

HPRS 1202 Wellness and Health Promotion 2.2.0

An overview of wellness theory and its application throughout the life span. Focus is on attitude development, impact of cultural beliefs, and communication of wellness. Fee charged.

HPRS 2300 Pharmacology for Health Professions 3.3.0

A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Fee charged.

HPRS 2301 Pathophysiology 3.3.0

Study of the pathology and general health management of diseases and injuries across the life span. Topics include etiology, symptoms, and the physical and psychological reactions to diseases and injuries. Fee charged.

HRGY 1319 Basic Horology I 3.1.8

Introduction to disassembly, cleaning, and reassembly of the basic watch using time proven methods. Emphasis on nomenclature. Prerequisite: None. Fee charged.

HRGY 1320 Basic Horology II 3.1.8

Continuations of Basic Horology I with emphasis on identification and functions of parts common to all mechanical watches. Fee charged.

HRGY 1321 Basic Horology III 3.1.8

Continuation of Basic Horology II. Emphasis on replacement of case parts as well as hairspring manipulation. Fee charged.

HRGY 1322 Basic Horology IV 3.1.8

A continuation of Basic Horology III. Emphasis on replacement and repair of damaged parts in mechanical watches. Fee charged.

HRGY 1371 Introduction to Computer Aided Jewelry Design 3.2.4

Study of the programs, operations, characteristics, modeling, and machining techniques of Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) are explored in this course. Applications in visualization, rendering, animation, 2D design, 2 ½ D design and solid modeling, 3D design and solid modeling. Prerequisite: Basic computer skills and applications or consent of instructor. Fee charged

HRGY 1372 Technical Illustration for Jewelry Design 3.2.4

Topics include pictorial drawing including isometrics, obliques, perspectives, charts, and graphs; shading and transfer lettering; and use of different media. Fee charged.

HRGY 1373 Basic Computer Aided Drafting for Jewelry Design 3.2.4

An introduction to computer-aided drafting. Emphasis is placed on drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; as well as input and output devices. Fee charged.

HRGY 1374 Solid Modeling Design for Jewelry 3.2.4

A computer-aided modeling course, contents covers the development of three-dimensional drawings and models from sketches and orthographic drawings and utilization of three-dimensional models in design work. Fee charged.

HRGY 1381 Cooperative Education - Watchmaking and Jewelry Making 3.1.19

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Fee charged.

HRGY 1391 Special Topics in Watchmaking and Jewelry 3.2.4

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student efficiency. Fee charged.

HRGY 2301 Intermediate Horology I 3.1.8

Introduction to the theory and repair of watch escapements. End-of-Course Outcomes: Demonstrate repair and replacement of roller jewels, guard fingers, pallet jewels, pallet arbors; and perform escapement adjustment on basic mechanical watches. Fee charged.

HRGY 2302 Intermediate Horology II 3.1.8

Continuation of Intermediate Horology I with emphasis on advanced hairspring manipulation and friction jewelling. Fee charged.

HRGY 2303 Intermediate Horology III 3.1.8

Continuation of Intermediate Horology II with emphasis on complicated watch movements. Fee charged.

HRGY 2304 Intermediate Horology IV **3.1.8**

A continuation of Intermediate Horology III with emphasis on complicated watch movements including disassembly, cleaning, and repair. Fee charged.

HRGY 2305 Intermediate Horology V **3.1.8**

A continuation of Intermediate Horology IV with emphasis on speed. Focus on adjustment of escapements and hairsprings, precision timing, regulation of mechanical movements, and disassembly, cleaning, and repair of both calendar and self-winding watches. Fee charged.

HRGY 2306 Intermediate Horology VI **3.1.8**

Continuation of Intermediate Horology V with further emphasis on speed to meet industry standards. Focus on adjustment of escapements and hairsprings, precision timing, regulation of mechanical movements, and disassembly, cleaning, and repair of both calendar and self-winding watches. Fee charged.

HRGY 2307 Intermediate Horology VII **3.1.8**

Continuation of Intermediate Horology VI with emphasis on speed. Focus on disassembly, cleaning, and repair of automatic winding watches and on precision timing including nomenclature, parts interchangeability, proper lubrication, and casing. Fee charged.

HRGY 2308 Intermediate Horology VIII **3.1.8**

A continuation of Intermediate Horology VII with emphasis on speed. Focus on disassembly, cleaning, and repair of calendar watches and on precision timing including nomenclature, parts interchangeability, proper lubrication, and casing. Fee charged.

HRGY 2341 Advanced Horology Systems I **3.1.8**

A practical, hands-on training of disassembly, cleaning, repair and adjustment of timers and simple chronographs. Fee charged.

HRGY 2342 Advanced Horology Systems II **3.1.8**

A continuation of Advanced Horology I with emphasis on speed. Includes the study of disassembly, cleaning, repair, and adjustment of timers, alarms, and other more complicated mechanical movements. Fee charged.

HRGY 2343 Advanced Horology Systems III **3.1.8**

A continuation of Advanced Horology Systems II with emphasis on electronic theory related to quartz analog watches. Fee charged.

HRGY 2344 Advanced Horology Systems IV **3.1.8**

Continuation of Advanced Horology Systems III including the repair of quartz analog and quartz digital timepieces. Fee charged.

HRPO 2301 Human Resources Management 3.2.2

Behavioral and legal approaches to the management of human resources in organizations. The student will explain the development of human resources management; explain current methods of job analysis, recruitment, selection, training/development, performance management, promotion, and separation; describe management's ethical, social, and legal responsibilities; explain methods of compensation and benefits planning; and describe the role of strategic human resources planning.

HYDR 1045 Hydraulics and Pneumatics 64 Contact Hours

Discussion of the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system.

HYDR 1345 Hydraulics and Pneumatics 3.2.2

Discussion of the fundamentals of hydraulics and pneumatics, components of each system, and the operations, maintenance, and analysis of each system. Fee charged.

IMED 1316 Web Design I 3.2.2

Instruction in web design and related graphic design including mark-up languages and browser issues. The student will identify how the Internet functions with specific attention to the file transfer; apply design techniques in the creation and optimization of graphics and other embedded elements; demonstrate the use of World Wide Web Consortium (W3C) formatting and layout standards; design, create, test, and maintain a web site. Fee charged.

INMT 1017 Industrial Automation 48 Contact Hours

Applications for industrial automation systems include identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of set-up, maintenance, and testing of the automated system.

INMT 2003 Pumps, Compressors & Mechanical Drives 64 Contact Hours

A study of the theory and operations of various types of pumps and compressors. Topics include mechanical power transmission systems including gears, v-belts, and chain drives.

INMT 2345 Industrial Troubleshooting 3.2.2

An advanced study of the techniques used in troubleshooting various types of industrial equipment to include mechanical, hydraulic, and pneumatic systems and their control devices. Emphasis will be placed on the use of schematics and diagrams in conjunction with proper troubleshooting procedures. Fee charged.

INTC 1341 Principles of Automatic Control 3.2.2

Basic measurements, automatic control systems and design, closed loop systems, controllers, feedback, control modes, and control configurations. Prerequisite: Instructor approval. Fee charged.

IRWS 0301 Integrated Reading and Writing I (32.0108.59 12) 3.3.1

This is a basic developmental course providing integrated reading and writing instruction to prepare students for college writing and reading. Students are placed in to the course by test scores. The course may not be used to fulfill degree requirements.

IRWS 0302 Integrated Reading and Writing (IRWS) (32.0108.59 12) 3.3.1

Integration of critical reading and academic writing skills. Successful completion of this intervention fulfills TSIA2 requirements for reading and/or writing. Students are placed into the course by test scores. The course may not be used to fulfill degree requirements.

ITCC 1314 CCNA 1: Introduction to Networks 3.2.2

This course covers networking architecture, structure, and functions; introduces the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to provide a foundation for the curriculum. The student will build simple LANs; perform basic configuration on routers and switches; and implement IP addressing schemes. Fee charged.

ITCC 1344 CCNA 2: Switching, Routing, and Wireless Essentials 3.2.2

Describes the architecture, components, and operations of routers and switches in small networks and introduces wireless local area networks (WLAN) and security concepts; provides an in-depth understanding of how routers and switches operate and are implemented in the LAN environment. The student will configure, secure, and maintain routers and switches; resolve common issues with routing protocols, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks; configure WLANs. Fee charged.

ITCC 2320 CCNA 3: Enterprise Networking, Security, and Automation 3.2.2

Describes the architecture, components, operations, and security to scale for large, complex networks, including wide area network (WAN) technologies. Emphasizes network security concepts and introduces network virtualization and automation. The student will configure advanced routing and switching protocols; resolve common issues with routing and switching protocols; identify threats and enhance network security; implement IPv4 Access Control Lists (ACLs); configure Network Address Translation (NAT) services; explain virtualization, software defined networking, and automation. Fee charged.

ITNW 1325 Fundamentals of Networking Technologies 3.2.2

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and

software. End-of-Course Outcomes: identify and use network transmission media; explain the OSI model; Identify the characteristics of network topologies and protocols; identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems; and distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs) and identify the components used to expand a LAN into a WAN. Fee charged.

ITNW 1351 Fundamentals of Wireless LANs 3.2.2

Design, plan, implement, operate, and troubleshoot Wireless Local Area Networks (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies. The student will explain wireless technologies, topographies, and standards; design, install, configure, monitor, maintain, and troubleshoot wireless networks; and implement wireless security using encryption, MAC filtering, Authentication, Authorization, and 802.1x technologies. Fee charged.

ITNW 1354 Implementing and Supporting Servers 3.2.2

Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. The student will configure peripherals and devices; set up servers; configure directory replication; manage licensing; create and manage system policies and profiles; administer remote servers and disk resources; create and share resources; implement fault- tolerance; configure servers for interoperability; install and configure Remote Access Service (RAS); and identify and monitor performance bottlenecks and resolve configuration problems. Fee charged.

ITNW 2305 Network Administration 3.2.2

Topics include network components, user accounts and groups, network file systems, file system security, and network printing. The student will describe the components of a local area network and their relationship; create and administer user accounts and groups; plan and set up network file systems; create effective file system security; and implement and administer network printing. Fee charged.

ITNW 2313 Networking Hardware 3.2.2

Exploration of hardware devices including cables, servers, and workstations, network connectivity devices, and uninterruptible power supplies. The student will build network cables; identify and implement connectivity devices; select appropriate network power management devices; and determine the necessary computer hardware requirements for workstations and servers. Fee charged.

ITSC 1305 Introduction to PC Operating Systems 3.2.2

Introduction to personal computer operating systems including installation, configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. The student will install, configure, and maintain the operating system; perform basic file management operations; organize and allocate primary and secondary storage; access and control peripheral devices; and run utilities. Fee charged.

ITSC 1309 Integrated Software Applications I **3.2.2**

Introduction to business productivity software suites using word processing, spreadsheets, databases, and/or presentation software. The student will use word processing, spreadsheet, database, and/or presentation software; and integrate applications to produce documents. Prerequisite: Keyboarding proficiency. Fee charged.

ITSC 1321 Intermediate PC Operating Systems **3.2.2**

Custom operating system installation, configuration and troubleshooting, management of file systems, memory, storage, and peripheral devices. Fee charged.

ITSC 1325 Personal Computer Hardware **3.2.2**

Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting. End-of-Course Outcomes: assemble/ setup and upgrade personal computer systems; diagnose and isolate faulty components; optimize system performance; and install/connect peripherals. Fee charged.

ITSC 2321 Integrated Software Applications II **3.2.2**

Intermediate study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. The student will use intermediate word processing, spreadsheet, database, and/or presentation software techniques and apply integration techniques to produce documents. Prerequisite: ITSC 1309 or COSC 1301. Fee charged.

ITSC 2335 Application Software Problem Solving **3.2.2**

Utilization of appropriate application software to solve advanced problems and generate customized solutions. Fee charged.

ITSC 2339 Personal Computer Help Desk Support **3.2.2**

Diagnosis and solution of user hardware and software-related problems with on-the-job and/or simulated projects. The student will demonstrate rapport with users in problem-solving situations; analyze user problems and lead them through solutions; maintain problem logs; and formulate problem-solving methodologies. Fee charged.

ITSC 2386 Internship - Computer and Information Sciences, General **3.0.9**

A work-based learning experience enables the student to apply specialized occupational theory, skills, and concepts. A learning plan developed by the college and the employer will apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills

using the terminology of the occupation and the business/industry. Fee charged.

ITSW 1304 Introduction to Spreadsheets 3.2.2

Instruction in the concepts, procedures, and application of electronic spreadsheets. The student will define spreadsheet terminology and concepts; create formulas and functions; use formatting features; and generate charts, graphs, and reports. Fee charged.

ITSW 1307 Introduction to Database 3.2.2

Introduction to database theory and the practical applications of a database. The student will identify database terminology and concepts; plan, define, and design a database; design and generate tables, forms, and reports; and devise and process queries. Fee charged.

ITSW 1310 Introduction to Presentation Graphics Software 3.2.2

Instruction in the utilization of presentation software to produce multimedia presentations. Graphics, text, sound, animation and/or video may be used in presentation development. The student will identify presentation media terminology and concepts; create presentations using text, visual and/or sound elements; use effective compositions and style; prepare presentations for distribution on computers or other media; and modify sequence and slide master. Fee charged.

ITSW 1401 Introduction to Word Processing 4.3.2

An overview of the production of documents, tables, and graphics. Fee charged.

ITSW 2334 Advanced Spreadsheets 3.2.2

Advanced techniques for developing and modifying spreadsheets. Includes macros and data analysis functions. Fee charged.

ITSY 1300 Fundamentals of Information Security 3.2.2

An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies, and controls is also discussed.

ITSY 1342 Information Technology Security 3.2.2

Instruction in security for network hardware, software, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses.

ITSY 2300 Operating System Security 3.2.2

Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards. Prerequisite: ITSY 1342.

ITSY 2301 Firewalls and Network Security **3.2.2**

Identify elements of firewall design, types of security threats, and responses to security attacks. Use Best Practices to design, implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities. Prerequisite: ITSY 1342.

ITSY 2330 Intrusion Detection **3.2.2**

Computer information systems security monitoring, intrusion detection, and crisis management. Includes alarm management, signature configuration, sensor configuration, and troubleshooting components. Emphasizes identifying, resolving, and documenting network crises and activating the response team. Corequisite: ITSY 2300 and ITSY 2301.

ITSY 2342 Incident Response & Handling **3.2.2**

In-depth coverage of incident response and incident handling, including identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; and implementing and modifying security measures. Prerequisite: ITSY 2300 and ITSY 2301.

ITSY 2343 Computer System Forensics **3.2.2**

In-depth study of system forensics including methodologies used for analysis of computer security breaches. Collect documents and evaluate evidence to perform postmortem analysis of a security breach. Corequisite: ITSY 2342

ITSY 2345 Network Defense and Countermeasures **3.2.2**

This is a practical application and comprehensive course that includes the planning, design, and construction of defenses for complex network that will sustain an attack, document events, and mitigate the effects of the attack. Prerequisite: ITSY 2300 and ITSY 2330; Corequisite: ITSY 2342.

JLRY 1290 Special Topics in Metal and Jewelry Arts **2.1.2**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Fee charged.

JLRY 1301 Jewelry Techniques I **3.1.8**

Introduction to the basic techniques of jewelry repair including layout, sawing, filing, and emery. Emphasis on industry standards. Fee charged.

JLRY 1302 Jewelry Techniques II **3.1.8**

Continuation of Jewelry Techniques I with emphasis on polishing. Fee charged.

JLRY 1303 Jewelry Techniques III **3.1.8**

Continuation of Jewelry Techniques II including advanced skills in layout, sawing, filing, emery, polishing, and soldering with limited fabrication. Fee charged.

JLRY 1304 Jewelry Techniques IV **3.1.8**

Continuation of Jewelry Techniques III including advanced skills in layout, sawing, filing, emery, polishing, and soldering with limited fabrication. Fee charged.

JLRY 1309 Casting I **3.2.4**

Emphasis on lost wax casting, both centrifugal and vacuum processes. Includes introduction to wax carving. Fee charged

JLRY 1341 Stone Setting I **3.1.8**

Focus on bead setting and bright cutting techniques. Fee charged.

JLRY 1342 Stone Setting II **3.1.8**

Continuation of Stone Setting I. Focus on prong setting, repronging, retipping, and reheading. Fee charged.

JLRY 1343 Stone Setting III **3.1.8**

A continuation of Stone Setting II including fancy bright cuts, bezel sets, and gypsy sets. Fee charged.

JLRY 1344 Stone Setting IV **3.1.8**

A continuation of Stone Setting III including fancy bright cuts, bezel sets, and gypsy sets, and the setting of multiple stones such as channel-setting, cluster- setting, and fishtail-setting. Fee charged.

JLRY 1348 Jewelry Repair/Fabrication I **3.1.8**

Emphasis on techniques, fabrication, and repair of jewelry. Introduction to equipment and techniques of jewelry manufacturing including assembly of findings. Fee charged.

JLRY 1349 Jewelry Repair/Fabrication II **3.1.8**

Continuation of Jewelry Repair/Fabrication I with emphasis on techniques, fabrication, and repair of jewelry. Introduction to equipment and techniques of jewelry manufacturing including chain repair and electroplating. Fee charged.

JLRY 1380 Cooperative Education - Metal and Jewelry Arts **3.1.19**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with

work experience. Includes a lecture component. Fee charged.

JLRY 1413 Fundamentals of Gemology I (Diamonds) 4.2.4

Development of skills in gemstone identification. Emphasis on diamonds including diamond simulants, diamond grading, and the proper use and care of laboratory instruments. Fee charged.

JLRY 1414 Fundamentals of Gemology II (Colored Stones) 4.2.4

Development of skills in gemstone identification. Emphasis on colored stones including synthetics, enhancement and treatments, and the proper use and care of laboratory instruments. Fee charged.

JLRY 1450 Intermediate Gemology 4.2.4

Study of the formation, recovery, lore/superstition, merchandising, advertising, display, and buying and selling of precious gems. Fee charged.

JLRY 2333 Casting II 3.2.4

Continuation of Casting I. Includes instruction in mold making and vibratory finishing. Fee charged.

JLRY 2335 Precious Metals I 3.1.8

Emphasis on layout, bright cuts, baguettes, marquise, pear, cushion, and emerald cut stones. Focus on utilization of commercial shop guidelines. Fee charged.

JLRY 2336 Precious Metals II 3.1.8

A continuation of Precious Metals I. Focus on layout, bright cuts, baguettes, marquise, pear, cushion, and emerald cut stones as well as pave in precious metals. Includes utilization of commercial shop guidelines. Emphasis on speed. Fee charged.

JLRY 2337 Precious Metals III 3.1.8

Continuation of Precious Metals II with emphasis on techniques and refinement of commercial shop practices including lost wax process of casting in precious metals and assembly of die-struck and cast findings. General review of bench techniques. Fee charged.

JLRY 2338 Precious Metals IV 3.1.8

Continuation of Precious Metals III with emphasis on techniques and refinement of commercial shop practices including lost wax process of casting in precious metals and assembly of die-struck and cast findings. General review of bench techniques from fabrication of a platinum pendant to soldering die struck heads on mountings. Emphasis on speed. Fee charged.

JLRY 2431 Advanced Gemological Practice 4.2.4

Study of the use and care of lab equipment and selection of and familiarity with vendors. Fee charged.

KINE 2356 Care and Prevention of Athletic Injuries (51.0913.52 23) 3.3.0

Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training.

LTCA 1312 Resident Care in the Long-Term Facility 3.3.0

A study of the delivery of services to residents of long-term care facilities including ethical considerations and quality of life issues.

MATH 0300 Elementary Algebra (32.0104.51 19) 3.3.0

Topics covered normally include real numbers, linear equations and inequalities, application of linear equations, ratio and proportion, multiplication and division of polynomials, and factoring. This course is not for college-level credit and may not be used to satisfy degree requirements.

MATH 0400 Foundations of Mathematical Reasoning (32.0104.51 19) 4.3.2

This course surveys a variety of mathematical topics needed to prepare students for college level statistics or quantitative reasoning. Topics include numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models. This course is not for college-level credit and may not be used to satisfy degree requirements.

MATH 0401 Foundations of Algebraic Reasoning (32.0104.51 19) 4.3.2

Topics in mathematics including study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. Recommended for STEM-majors who are not college ready in mathematics. Prerequisite: Satisfactory placement test score. This course is not for college-level credit and may not be used to satisfy degree requirements.

MATH 1314 College Algebra (27.0101.54 19) 3.3.0

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

MATH 1316 Plane Trigonometry (27.0101.53 19) 3.3.0

In-depth study and applications of trigonometry including definitions, identities, inverse

functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Prerequisite: MATH 1314 or concurrent enrollment in MATH 1314.

MATH 1324 Mathematics for Business & Social Sciences (27.0301.52 19) 3.3.0

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. Prerequisite: meet TSI college-readiness standard for Mathematics; or equivalent.

MATH 1325 Calculus for Business & Social Sciences (27.0301.53 19) 3.3.0

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I. Prerequisite: MATH 1314 or 1324.

MATH 1332 Contemporary Mathematics (Quantitative Reas.) (27.0101.51 19) 3.3.0

Intended for Non-STEM (Science, Technology, Engineering, and Mathematics) majors. Topics include introductory treatments of sets and logic, financial mathematics, probability and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered.

MATH 1342 Elementary Statistical Methods (27.0501.51 19) 3.3.0

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

MATH 1350 Mathematics for Teachers I (Fund. of Math. I) (27.0101.56 19) 3.3.0

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the conceptual development of the following: sets, functions, numeration systems, number theory, and properties of the various number systems with an emphasis on problem solving and critical thinking. Prerequisite: MATH 1314 or the equivalent.

MATH 1351 Mathematics for Teachers II (Fund. of Math. II) (27.0101.57 19) 3.3.0

This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking. Prerequisite: MATH 1314 or the equivalent.

MATH 2305 Discrete Mathematics (27.0101.66 19) 3.3.0

A course designed to prepare math, computer science, and engineering majors for a background in abstraction, notation, and critical thinking for the mathematics most directly related to computer science. Topics include logic, relations, functions, basic set theory, countability and counting arguments, proof techniques, mathematical induction, combinatorics, discrete probability, recursion, sequence and recurrence, elementary number theory, graph theory, and mathematical proof techniques.

MATH 2312 Pre-Calculus Math (27.0101.58 19) 3.3.0

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Prerequisite: MATH 1314 or the equivalent preparation.

MATH 2320 Differential Equations (27.0101.64 19) 3.3.0

Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems, application of differential equations to real-world problems. Prerequisite: MATH 2414.

MATH 2413 Calculus I (27.0101.59 19) 4.3.3

Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. Prerequisite: MATH 1314 and 1316 or 2312 or by placement test scores.

MATH 2414 Calculus II (27.0101.60 19) 4.3.3

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals. Prerequisite: MATH 2413.

MATH 2415 Calculus III (27.0101.61 19) 4.3.3

Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem. Prerequisite: MATH 2414.

MDCA 1000 Basic Medical Assistant Technology 32 Contact Hours

Introduction to medical office operations, equipment, procedures, and human relations skills.

MDCA 1009 Anatomy and Physiology for Medical Assistants 48 Contact Hours

Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology.

MDCA 1052 Medical Assistant Laboratory Procedures 64 Contact Hours

Application of governmental health care guidelines. Includes specimen collection and handling, quality assurance and quality control in performance of Clinical Laboratory Improvement Amendments (CLIA)-waived laboratory testing.

MDCA 1064 Practicum - Medical/Clinical Assistant 160 Contact Hours

Practical, general workplace training is supported by an individualized learning plan developed by the employer, college, and student.

MDCA 1210 Medical Assistant Interpersonal and Communications Skills 2.2.1

Emphasis on the application of basic psychological principles and the study of behavior as they apply to special populations. Topics include procedures for self-understanding and social adaptability in interpersonal communication with patients and co-workers in an ambulatory care setting.

MDCA 1309 Anatomy and Physiology for Medical Assistants 3.3.0

Emphasis on structure and function of human cells, tissues, organs, and systems with overview of common pathophysiology. The student will identify and correlate cells, tissues, organs, and systems of the human body; differentiate normal from abnormal structure and function; and differentiate all body systems, their organs, and relevant pathophysiology.

MDCA 1343 Medical Insurance 3.3.0

Emphasizes medical office coding for payment and reimbursement by patient or third-party payers for ambulatory care settings. Prerequisite: HITT 1305.

MRKG 1311 Principles of Marketing 3.3.0

Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues. The student will identify the marketing mix components in relation to market segmentation; explain the environmental factors which influence consumer and organizational decision-making processes; and outline a marketing plan.

MUAP 1161 Guitar (50.0903.54 26) 1.0.2

Individual Instruction. One lesson of thirty minutes per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1169 Keyboard (50.0903.54 26) 1.0.2

Individual Instruction. One lesson of thirty minutes per week. Intended for music majors and

approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1202 Strings (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1217 Woodwind (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1237 Brass (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1257 Percussion (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1261 Guitar (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1269 Keyboard (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUAP 1281 Voice (50.0903.54 26) 2.0.2

Individual Instruction. One lesson of one hour per week. Intended for music majors and approved non-music majors. May be repeated for credit. Fee charged.

MUEN 1141 Chorale (50.0903.57 26) 1.1.5

Rehearsal of choral literature with one major performance each semester. Additional performances upon consent of director. Open to all students. May be repeated for credit.

MUSI 1157 Opera Workshop I (50.0908.52 26) 1.0.3

A study of the synthesis of singing and acting through the performance of opera.

MUSI 1160 Italian Diction (50.0908.53 26) 1.1.1

A study of the International Phonetic Alphabet (IPA) and its application to singing in Italian.

MUSI 1161 International Phonetic Alphabet for Singers (50.0908.53 26) 1.1.1

A study of the International Phonetic Alphabet (IPA) and its application to singing in English, Italian, German, and French.

MUSI 1181 Piano Class I (50.0907.51 26) 1.1.2

Class instruction in the fundamentals of keyboard technique for beginning piano students. Fee charged.

MUSI 1182 Piano Class II (50.0907.51 26) 1.1.2

Advanced beginning class instruction in the fundamentals of keyboard technique. Fee charged.

MUSI 1183 Voice Class (50.0908.51 26) 1.1.2

Class instruction in the fundamentals of singing including breathing, tone production, and diction. Designed for students with little or no previous voice training. Does not apply to a music major degree. Fee charged.

MUSI 1303 Fundamentals of Music (50.0904.55 26) 3.3.2

Introduction to the basic elements of music theory, including scales, intervals, keys, triads, elementary ear training, notation, meter, and rhythm.

MUSI 1306 Music Appreciation (50.0902.51 26) 3.3.0

Understanding music through the study of cultural periods, major composers, and musical elements. Illustrated with audio recordings and live performances.

MUSI 1311 Music Theory I (50.0904.51 26) 3.3.0

Analysis and writing of tonal melody and diatonic harmony up to and including the chords. Analysis and writing of small compositional forms. Correlated study at the keyboard. Fee charged.

MUSI 1312 Music Theory II (50.0904.51 26) 3.3.0

The study of analysis and writing of tonal melody and diatonic harmony, including all diatonic chords and seventh chords in root position and inversions, non-chord tones, and functional harmony. Introduction to more complex topics, such as modulation, may occur. Optional correlated study at the keyboard. Fee charged. Continuation of advanced chromaticism and survey of analytical and compositional procedures in post-tonal music. Optional correlated study at the keyboard. Fee charged.

NCBI 0004 Integrated Reading/Writing I (32.0108.60 12) 0.0.5

Integration of critical reading and academic writing skills. Successful completion of this intervention if taught at the upper (exit) level, fulfills TSI requirements for reading and/or writing and is for students who are near the successful TSIA2 scores for reading and/or writing. Graded Pass/Fail. May not be used to fulfill degree requirements. (4 contact hour

intervention)

NCBI 0116 Integrated Reading/Writing II (32.0108.60 12) 0.0.1

Integration of critical reading and academic writing skills. Successful completion of this intervention if taught at the upper (exit) level, fulfills TSI requirements for reading and/or writing and is for students who are near the successful TSIA2 scores for reading and/or writing - Grade Pass/Fail. May not be used to fulfill degree requirements. (16 contact hour intervention)

NCBM 0004 Developmental Mathematics I (32.0104.54 19) 0.0.5

Topics in mathematics may include arithmetic operations, basic algebraic concepts and notation, geometry, real and complex number systems, study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. May be taken by students who are near the successful TSIA2 scores for math. Graded Pass/Fail. May not be used to fulfill degree requirements. (4 contact hour intervention)

NCBM 0116 Developmental Mathematics II (32.0104.54 19) 0.0.1

Topics in mathematics may include arithmetic operations, basic algebraic concepts and notation, geometry, real and complex number systems, study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. May be taken by students who are near the successful TSIA2 scores for math. Graded Pass/Fail. May not be used to fulfill degree requirements. (16 contact hour intervention)

NURA 1001 Nurse Aide for Health Care 60 Contact Hours

Knowledge, skills, and abilities are essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis on effective interaction with members of the health care team, restorative services, mental health, and social service needs.

NURA 1060 Clinical - Nursing Assistant/Aide 40 Contact Hours

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

NURA 1260 Clinical - Nursing Assistant/Aide 2.0.8

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Fee charged.

NURA 1261 Clinical - Nursing Assistant/Aide **2.0.8**

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

NURA 1301 Nurse Aide for Health Care **3.3.0**

Knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis on effective interaction with members of the health care team, restorative services, mental health, and social service's needs.

NURA 1391 Special Topics in Nursing Assistant/Aide **3.3.0**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

OSHT 1016 Material Handling **48 Contact Hour**

Proper methods for material handling and storage include safety practices, proper equipment usage, engineering controls, and personal protective equipment.

OSHT 1220 Industrial Safety **2.1.2**

An overview for industrial workers of state/federal regulations and guidelines which require industrial safety training. Topics include the 29 C.F.R. 1910, 1926 and National Fire Protection Association (NFPA) 70E standards such as confined space entry, emergency action, lockout/tag out, arc flash, and other work-related subjects.

OSHT 1305 OSHA Regulations – Construction Industry **3.3.1**

A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry.

PHED 1121 Varsity Cheerleading I (36.0108.51 23) Activity class. **1.0.3**

PHED 1134 Introduction to Wellness (36.0108.51 23) Activity class. **1.0.3**

PHED 1138 Maintenance of Wellness (36.0108.51 23) Activity class. **1.0.3**

PHED 1142 Varsity Baseball I (36.0108.51 23) Activity class. **1.0.3**

PHED 1143 Varsity Men's Basketball I (36.0108.51 23) Activity Class. **1.0.3**

PHED 1144 Varsity Softball I (36.0108.51 23) Activity class. **1.0.3**

PHED 1145 Varsity Women's Basketball I (36.0108.51 23) Activity class. 1.0.3

PHED 1147 Varsity Men's Soccer I (36.0108.51 23) Activity class. 1.0.3

PHED 1148 Varsity Women's Soccer I (36.0108.51 23) Activity class. 1.0.3

PHED 1301 Foundations of Kinesiology (31.0501.52 23) 3.3.0

The purpose of this course is to provide students with an introduction to human movement that includes the historical development of physical education, exercise science, and sport. This course offers the student both an introduction to the knowledge base, as well as information on expanding career opportunities.

PHED 1304 Personal/Community Health (51.1504.51 16) 3.3.0

This course provides an introduction to the fundamentals, concepts, strategies, applications, and contemporary trends related to understanding personal and/or community health issues. This course also focuses on empowering various populations with the ability to practice healthy living, promote healthy lifestyles, and enhance individual well-being.

PHED 1306 First Aid (51.1504.53 16) 3.3.0

Instruction and practice for emergency care. Designed to enable students to recognize and avoid hazards within their environment, to render intelligent assistance in case of accident or sudden illness, and to develop skills necessary for the immediate and temporary care of the victim. Successful completion of the course may enable the student to receive a certificate from a nationally recognized agency.

PHED 1338 Concepts of Physical Fitness (31.0501.51 23) 3.3.0

This course is designed to familiarize students with knowledge, understanding, and values of health-related fitness and its influence on the quality of life emphasizing the development and implementation of fitness programs.

PHED 1346 Drug Use and Abuse (51.1504.52 16) 3.3.0

Study of the use, misuse, and abuse of drugs and other harmful substances in today's society. Physiological, sociological, pharmacological, and psychological factors will be emphasized.

PHED 2121 Varsity Cheerleading II (36.0108.51 23) Activity class. 1.0.3

PHED 2142 Varsity Baseball II (36.0108.51 23) Activity Class. 1.0.3

PHED 2143 Varsity Men's Basketball II (36.0108.51 23) Activity class. 1.0.3

PHED 2144 Varsity Softball II (36.0108.51 23). Activity class. 1.0.3

PHED 2145 Varsity Women's Basketball II (36.0108.51 23) Activity class. 1.0.3

PHED 2147 Varsity Men's Soccer II (36.0108.51 23) Activity class. 1.0.3

PHED 2148 Varsity Women's Soccer II (36.0108.51 23) Activity class. 1.0.3

PHRA 1001 Introduction to Pharmacy 50 Contact Hours

An overview of the qualifications, operational guidelines, and job duties of a pharmacy technician.

PHRA 1060 Clinical - Pharmacy Technician/Assistant 80 Contact Hours

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

PHYS 1303 Stars and Galaxies (40.0201.51 03) 3.3.1

Study of stars, galaxies, and the universe outside our solar system. Fee charged. No Prerequisite.

PHYS 1304 Solar System (40.0201.52 03) 3.3.1

Study of the sun and its solar system, including its origin. Fee charged. No Prerequisite; may be taken prior to PHYS 1303.

PHYS 1401 College Physics I (40.0801.53 03) 4.3.3

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces with emphasis on problem solving. Laboratory activities will reinforce fundamental principles of physics, as listed previously. Prerequisite: MATH 1314 and 1316 or MATH 2312. Fee charged.

PHYS 1402 College Physics II (40.0801.53 03) 4.3.3

Fundamental principles of physics, using algebra and trigonometry; the principles and applications of electricity and magnetism, including circuits, electrostatics, electromagnetism, waves, sound, light, optics, and modern physics topics with emphasis on problem solving. Laboratory activities will reinforce fundamental principles of physics, as listed previously. Prerequisite: PHYS 1401. Fee charged.

PHYS 1405 Elementary Physics I (lecture + lab) (40.0801.53 03) 4.3.3

Conceptual level survey of topics in physics intended for liberal arts and other non-science majors. May or may not include a laboratory. Fee charged.

PHYS 2425 University Physics I (lecture + lab) (40.0801.54 03) 4.3.4

Fundamental principles of physics using calculus, for science, computer science, and

engineering majors; the principles and applications of classical mechanics, including harmonic motion, physical systems, and thermodynamics; and emphasis on problem solving. Basic laboratory experiments supporting theoretical principles involving the principles and applications of classical mechanics, including harmonic motion and physical systems; experimental design, data collection and analysis, and preparation of laboratory reports. Fee charged. Prerequisite: MATH 2413.

PHYS 2426 University Physics II (40.0801.57 03) 4.3.4

Principles of physics for science, computer science, and engineering majors, using calculus, involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics. Laboratory experiments supporting theoretical principles involving the principles of electricity and magnetism, including circuits, electromagnetism, waves, sound, light, and optics; experimental design, data collection and analysis, and preparation of laboratory reports. Fee charged. Prerequisite: MATH 2414, PHYS 2425.

PLAB 1023 Basic Phlebotomy 64 Contact Hours

Skill development in the performance of a variety of blood collection methods using proper techniques and standard precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, patient identification, specimen labeling, quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology.

PLAB 1060 Clinical - Phlebotomy/Phlebotomist 96 Contact Hours

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

PLAB 1223 Phlebotomy 2.2.1

Skill development in the performance of a variety of blood collection methods using proper techniques and standards precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults, children, and infants. Emphasis on infection prevention, patient identification, specimen labeling, quality assurance, specimen handling, processing, accessioning, professionalism, ethics, and medical terminology. Must be taken with PLAB 1260. Fee charged.

PLAB 1260 Clinical - Phlebotomy/Phlebotomist 2.0.8

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Must be taken with PLAB 1223. Fee charged.

POFM 1300 Basic Medical Coding 3.3.0

Presentation and application of basic coding rules, principles, guidelines, and conventions utilizing various coding systems. Prerequisite: HITT 1305.

POFM 1302 Medical Software Applications 3.2.2

Medical software applications for the management and operation of health care information systems. The student will utilize medical software applications, manage patient database, process billing, maintain schedules, and generate reports. Fee charged.

POFT 1227 Introduction to Keyboarding 2.1.2

Skill development in keyboarding techniques. Emphasis on the development of speed and accuracy.

POFT 1313 Professional Workforce Preparation 3.2.2

Preparation for career success including ethics, interpersonal relations, professional attire, and advancement.

POFT 1319 Records and Information Management I 3.2.3

Introduction to basic records information management systems including manual and electronic filing.

POFT 1321 Business Math 3.3.1

Fundamentals of business mathematics including analytical and critical thinking skills.

POFT 1329 Beginning Keyboarding 3.2.2

Skill development in keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. Fee charged.

POFT 2301 Intermediate Keyboarding 3.2.2

A continuation of keyboarding skills emphasizing acceptable speed and accuracy levels and formatting documents. Fee charged. Prerequisite: POFT 1329 or equivalent.

POFT 2312 Business Correspondence & Communication 3.2.2

Development of writing and presentation skills to produce effective business documents.

POFT 2386 Internship - Administrative Assistant and Secretarial Science 3.0.9

Development of writing and presentation skills to produce effective business documents.

PSYC 1100 Learning Framework (42.2701.51 25) 1.1.0

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual

basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as EDUC 1100.)

PSYC 1200 Learning Framework (42.2701.51 25) 2.2.0

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as EDUC 1200.)

PSYC 1300 Learning Framework (42.2701.51 25) 3.3.0

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g., learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. (Cross-listed as EDUC 1300.)

PSYC 2301 General Psychology (42.0101.51 25) 3.3.0

General Psychology is a survey of the major psychological topics, theories, and approaches to the scientific study of behavior and mental processes.

PSYC 2314 Lifespan Growth and Development (42.2703.51 25) 3.3.0

Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death.

PSYC 2315 Psychology of Adjustment (42.0101.56 25) 3.3.0

Study of the processes involved in adjustment of individuals to their personal and social environments.

PSYC 2319 Social Psychology (42.2707.51 25) **3.3.0**

Study of individual behavior within the social environment. May include socio-psychological process, attitude formation and change, interpersonal relations, group processes, self, social cognition, and research methods.

RADR 1201 Introduction to Radiography **2.2.0**

An overview of the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the profession and the health care system. Fee charged.

RADR 1203 Patient Care **2.1.2**

An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology. Fee charged.

RADR 1213 Principles of Radiographic Imaging I **2.1.2**

Radiographic image quality and the effects of exposure variables. Fee charged.

RADR 1266 Practicum - Radiologic Technology/Science **2.0.16**

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

RADR 1267 Practicum - Radiologic Technology/Science **2.0.16**

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

RADR 1311 Basic Radiographic Procedures **3.2.2**

An introduction to radiographic positioning terminology, manipulation of equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of basic anatomy. Fee charged.

RADR 2205 Principles of Radiographic Imaging II **2.1.2**

Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production. Prerequisite: RADR 1213. Fee charged.

RADR 2209 Radiographic Imaging Equipment **2.1.4**

Equipment and physics of x-ray production. Includes basic x-ray circuits. Also examines the relationship of conventional and digital equipment components to the imaging process. Fee charged.

RADR 2213 Radiation Biology and Protection **2.1.2**

Effects of radiation exposure on biological systems. Includes typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. Fee charged.

RADR 2233 Advanced Medical Imaging 2.2.0

An exploration of specialized imaging modalities. Fee charged.

RADR 2266 Practicum - Radiologic Technology/Science 2.0.16

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

RADR 2267 Practicum - Radiologic Technology/Science 2.0.16

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

RADR 2301 Intermediate Radiographic Procedures 3.2.4

A continuation of the study of the manipulation of radiographic equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for demonstration of anatomy. Prerequisite: RADR 1311. Fee charged.

RADR 2331 Advanced Radiographic Procedures 3.2.4

Positioning and alignment of anatomic structures and equipment, evaluation of images for demonstration of anatomy and related pathology. Prerequisite: RADR 2301. Fee charged.

RADR 2335 Radiologic Technology Seminar (Capstone) 3.3.0

A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning. Fee charged.

RADR 2366 Practicum - Radiologic Technology/Science 3.0.24

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

RADR 2367 Practicum - Radiologic Technology/Science - Radiographer 3.0.24

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Fee charged.

RBTC 1005 Robotic Fundamentals 64 Contact Hours

An introduction to flexible automation. Topics include installation, repair, maintenance, and development of flexible robotic manufacturing systems.

RBTC 1301 Programmable Logic Controllers 3.2.2

A study in programmable logic controllers (PLC). Topics include processor units, numbering systems, memory organization, relay type devices, timers, counters, data manipulators, and programming. Fee charged.

RBTC 1305 Robotic Fundamentals 3.2.2

An introduction to flexible automation. Topics include installation, repair, maintenance, and development of flexible robotic manufacturing systems. Fee charged.

RBTC 1351 Robotic Mechanisms 3.2.2

The application of principles and the calculation of practical problems involving four bar linkages, cams, gears, and gear trains. Topics include vector quantities, angular displacement, motion concepts, velocities, and motions. Fee charged.

RNSG 1218 Transition to Professional Nursing Competencies 2.1.3

Transition to professional nursing competencies in the care of patients throughout the lifespan. Validates proficiency in psychomotor skills and clinical reasoning in the performance of nursing procedures related to the concepts of clinical judgment, comfort, elimination, fluid and electrolytes, nutrition, gas exchange, safety, functional ability, immunity, metabolism, mobility, and tissue integrity. Includes health assessment and medication administration. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 1226, RNSG 1324, and RNSG 2160. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 1226 Professional Nursing Concepts II 2.2.0

Expanding professional nursing concepts and exemplars within the professional nursing roles. Applying concepts of clinical judgment, ethical-legal, evidence-based practice, patient-centered care, professionalism, safety, and team/collaboration to the exemplars presented in the Health Care Concepts II course. Introduces concepts of leadership and management. Emphasizes role development of the professional nurse. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 1218, RNSG 1324, and RNSG 2160. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 1237 Professional Nursing Concepts III 2.2.0

Application of professional nursing concepts and exemplars within the professional nursing roles. Utilizes concepts of clinical judgment, ethical-legal, evidenced-based practice, patient-centered care, professionalism, safety, team- work and collaboration. Introduces the concepts of quality improvement, health information technology, and health care organizations. Incorporates concepts into role development of the professional nurse.

Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to- RN degree plan. This course requires concurrent enrollment in RNSG 1538, and RNSG 2363. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 1324 Concept-Based Transition to Professional Nursing Practice 3.2.4

Integration of previous health care knowledge and skills into the role development of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Fee charged. Emphasis is on clinical decision-making for patients and their families. Review of selected health care and professional nursing concepts with application through exemplars. Health care concepts include comfort, diversity, elimination, functional ability, human development, mobility, nutrition, sensory perception, sleep, coping, thermoregulation, tissue integrity, acid-base balance, clotting, cognition, fluid and electrolyte balance, gas exchange, immunity, metabolism, nutrition, grief, and perfusion. Professional nursing concepts include clinical judgment, communication, ethical-legal, evidence-based practice, health promotion, health information technology, patient-centered care, patient education, professionalism, safety, teamwork and collaboration. Introduces concepts of leadership and management. Acceptance into the associate degree nursing pro- gram and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 1226, RNSG 1218, and RNSG 2160. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 1538 Health Care Concepts III 5.5.0

In-depth coverage of health care concepts with nursing application through selected exemplars. Concepts include cellular regulation, end of life, immunity, interpersonal relationships, grief, human development, intracranial regulation, mood/affect, comfort, sexuality, mobility, and reproduction. Provides continuing opportunities for development of clinical judgement skills. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 1237, and RNSG 2363. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 2138 Professional Nursing Concepts IV 1.1.1

Integration of professional nursing concepts and exemplars within the professional nursing roles. Synthesizes concepts of clinical judgment, ethical-legal, evidence-based practice, leadership and management, patient-centered care, professionalism, teamwork, and collaboration through exemplars presented in the Health Care Concepts courses. Emphasizes concept of quality improvement and introduces health policy. Incorporates concepts into role development of the professional nurse. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 2539 and RNSG 2260. All

nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 2160 Clinical - Registered Nursing/Registered Nurse 1.0.6

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan This course requires concurrent enrollment in RNSG 1226, RNSG 1324, and RNSG 1218. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 2260 Clinical - Registered Nursing/Registered Nurse 2.0.10

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 2539, and RNSG 2138. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 2363 Clinical - Registered Nursing/Registered Nurse 3.0.16

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to-RN degree plan. This course requires concurrent enrollment in RNSG 1538, and RNSG 1237. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

RNSG 2539 Health Care Concepts IV 5.5.0

In-depth coverage of advanced health care concepts with nursing application through selected exemplars. Concepts include cognition, immunity, clotting, fluid and electrolyte balance, gas exchange, metabolism, nutrition, perfusion, tissue integrity, and interpersonal relationships. Continuing development of clinical judgment with integration of all health care concepts. Prerequisites: Acceptance into the associate degree nursing program and completion of all courses listed on the LVN-to- RN degree plan. This course requires concurrent enrollment in RNSG 2138 and RNSG 2260. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

SOCI 1301 Introduction to Sociology (45.1101.51 25) 3.3.0

The scientific study of human society including ways in which groups, social institutions, and

individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance.

SOCI 1306 Social Problems (45.1101.52 25) 3.3.0

Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance, or family problems.

SOCI 2301 Marriage & the Family (45.1101.54 25) 3.3.0

Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society.

SOCI 2336 Criminology (45.0401.51 25) 3.3.0

The course surveys various theories of crime, with an emphasis on understanding the social causes of criminal behavior. The techniques for measuring crime as a social phenomenon and the characteristics of criminals are examined. This course addresses crime types (such as consensual or white-collar crimes), the criminal justice system, and other social responses to crime.

SOCW 2361, Introduction to Social Work (44.0701.51 24) 3.3.0

An overview of the history and development of social work as a profession. The course is designed to foster a philosophical, historical, and critical understanding of the social work profession, including social work values, ethics, and areas of practice utilized under a Generalist Intervention Model. (SOCW 2361 is included in the Social Work Field of Study.)

SPAN 1411 Beginning Spanish I (16.0905.51 13) 4.3.4

Basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. Fee charged.

SPAN 1412 Beginning Spanish II (16.0905.51 13) 4.3.4

Continued development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level. Fee charged.

SPAN 2311 Intermediate Spanish I (16.0905.52 13) 3.2.4

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension,

appreciation, and interpretation of the cultures of the Spanish-speaking world. Fee charged.

SPAN 2312 Intermediate Spanish II (16.0905.52 13) 3.2.4

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation, and interpretation of the cultures of the Spanish-speaking world. Fee charged.

SPCH 1315 Public Speaking (09.0101.53 06) 3.3.0

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

SPCH 1321 Business & Professional Communication (09.0101.52 06) 3.3.0

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats.

SPNL 1201 Health Care Spanish 2.2.1

Development of practical Spanish communication skills for the health care employee including medical terminology, greetings, common expressions, commands, and phrases normally used within a hospital or a physician's office.

SRGT 1244 Technological Sciences for the Surgical Technologist 2.2.0

Specialized surgical modalities covered include endoscopy, microsurgery, therapeutic surgical energies, and other integrated science technologies. Prerequisite: Acceptance in the Surgical Technology Program. This course must be passed with a "C" or better. Fee charged.

SRGT 1405 Introduction to Surgical Technology 4.3.2

Orientation to surgical technology theory, surgical pharmacology and anesthesia, technological sciences, and patient care concepts. Pre-requisite: Acceptance in the Surgical Technology Program. This course requires concurrent enrollment in SRGT 1409, and both courses must be passed with a "C" or better within the same semester. Fee charged.

SRGT 1409 Fundamentals of Perioperative Concepts and Techniques 4.2.6

In-depth coverage of perioperative concepts such as aseptic principles and practices, infectious processes, wound healing, and creation and maintenance of the sterile field. Prerequisite: Acceptance in the Surgical Technology Program. This course requires concurrent enrollment in SRGT 1405, and both courses must be passed with a "C" or better within the same semester. Fee charged.

SRGT 1441 Surgical Procedures I 4.3.2

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, otorhinolaryngology, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Prerequisite: Acceptance in the Surgical Technology Program. This course requires concurrent enrollment in SRGT 2461, and both courses must be passed with a "C" or better within the same semester. Fee charged.

SRGT 1442 Surgical Procedures II 4.3.2

Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the cardiothoracic, peripheral vascular, plastic/reconstructive , ophthalmology, oral/maxillofacial, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Prerequisite: Acceptance in the Surgical Technology Program. This course requires concurrent enrollment in SRGT 2462, and both courses must be passed with a "C" or better within the same semester. Fee charged.

SRGT 2130 Professional Readiness 1.1.0

Overview of professional readiness for employment, attaining certification, and maintaining certification status. Prerequisite: Acceptance in the Surgical Technology Program. This course must be passed with a "C" or better. Fee charged.

SRGT 2461 Clinical - Surgical Technology/Technologist 4.0.19

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Acceptance in the Surgical Technology Program. This course requires concurrent enrollment in SRGT 1441, and both courses must be passed with a "C" or better within the same semester. Fee charged.

SRGT 2462 Clinical - Surgical Technology/Technologist 4.0.19

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Acceptance in the Surgical Technology Program. This course requires concurrent enrollment in SRGT 1442, and both courses must be passed with a "C" or better within the same semester. Fee charged.

TECA 1318, Wellness of the Young Child (13.0101.53 09) 3.3.0

A study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness, and safety practices. Focuses on local and national standards and legal implications of relevant policies and regulations. Course content must be aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards and coincide with the National Association for the Education of Young Children position statement related to developmentally appropriate

practices for children from birth to age eight. Requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Course includes a minimum of 16 hours of field experiences.

TECA 1354 Child Growth & Development (13.1202 52 09) 3.3.0

A study of the physical, emotional, social, language, and cognitive factors impacting growth and development of children through adolescence.

VNSG 1160 Clinical - Licensed Practical/Vocational Nurse Training 1.0.4

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1500, VNSG 1222 and VNSG 1423 All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1219 Leadership and Professional Development 2.2.1

Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1236, VNSG 2410 and VNSG 2460. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1222 Vocational Nursing Concepts 2.2.0

Introduction to the nursing profession and its responsibilities. Includes legal and ethical issues in nursing practice. Concepts related to the physical, emotional, and psychosocial self-care of the learner/professional. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1500, VNSG 1160 and VNSG 1423 All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1236 Mental Health 2.2.0

Introduction to the principles and theories of positive mental health and human behaviors. Topics include emotional responses, coping mechanisms, and therapeutic communication skills. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 2410, VNSG 1219 and VNSG 2460. All nursing courses must

be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1330 Maternal – Neonatal Nursing 3.2.2

A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the child- bearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1509 and VNSG 1460. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1423 Basic Nursing Skills 4.2.6

Mastery of basic nursing skills and competencies for a variety of health care settings using the nursing process as the foundation for all nursing interventions. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1500, VNSG 1222 and VNSG 1160. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1500 Nursing in Health and Illness I 5.4.4

Introduction to general principles of growth and development, primary health care needs of the patient across the life span, and therapeutic nursing interventions. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1160, VNSG 1222 and VNSG 1423 All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1509 Nursing in Health and Illness II 5.4.3

Introduction to health problems requiring medical and surgical interventions. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1330 and VNSG 1460. All nursing courses must be passed with a “C” or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 1460 Clinical - Licensed Practical/Vocational Nurse Training 4.0.12

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the

clinical professional. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1330 and VNSG 1509. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 2410 Nursing in Health and Illness III 4.4.1

Continuation of Nursing in Health and Illness II. Further study of medical- surgical health problems of the patient including concepts such as mental illness. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1236, VNSG 1219 and VNSG 2460. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

VNSG 2460 Medical Surgical Clinical – Practical Nurse 4.0.14

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: Acceptance into the vocational nursing program and completion of all previous courses listed on the vocational nursing degree plan. This course requires concurrent enrollment in VNSG 1236, VNSG 1219 and VNSG 2410. All nursing courses must be passed with a "C" or better within the same semester. Failure to meet this requirement necessitates enrollment in all nursing courses in the repeated semester. Fee charged.

WLDG 1307 Introduction to Welding Using Multiple Processes 3.2.4

Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW). Fee charged.

WLDG 1313 Introduction to Blueprint Reading for Welders 3.2.2

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production. Fee charged.

WLDG 1317 Introduction to Layout and Fabrication 3.2.2

A fundamental course in layout and fabrication related to the welding industry. Major emphasis on structural shapes and use in construction. Fee Charged.

WLDG 1323 Welding Safety, Tools, and Equipment 3.3.0

An introduction to welding equipment and safety practices, including OSHA standards for

industry. Fee charged.

WLDG 1425 Introduction to Oxy-Fuel Welding and Cutting 4.3.2

An introduction to oxy-fuel welding and cutting, safety, setup and maintenance of oxy-fuel welding, and cutting equipment and supplies. Fee charged.

WLDG 1427 Welding Codes and Standards 4.4.0

An in-depth study of welding codes and their development in accordance with structural standards, welding processes, destructive and nondestructive test methods. Fee charged.

WLDG 1428 Introduction to Shielded Metal Arc Welding (SMAW) 4.2.4

An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions. Fee Charged.

WLDG 1430 Introduction to Gas Metal Arc Welding (GMAW) 4.2.4

Principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment. Instruction in various joint designs. Fee Charged.

WLDG 1434 Introduction to Gas Tungsten Arc Welding (GTAW) 4.2.4

Principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs. Fee Charged.

WLDG 1435 Introduction to Pipe Welding 4.2.4

An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on various welding positions and electrodes. Fee Charged.

WLDG 1453 Intermediate Layout and Fabrication 4.2.4

An intermediate course in layout and fabrication. Includes design and production of shop layout and fabrication. Emphasis placed on symbols, blueprints, and written specifications. Fee Charged.

WLDG 1457 Intermediate Shielded Metal Arc Welding (SMAW) 4.2.4

A study of the production of various fillets and groove welds. Preparation of specimens for testing in various positions. Fee Charged.

WLDG 1491 Special Topics in Welder/Welding Technologist 4.2.4

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional

development of the student. This course was designed to be repeated multiple times to improve student proficiency. Fee Charged.

WLDG 2406 Intermediate Pipe Welding **4.2.4**

A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices. Fee Charged.

WLDG 2413 Intermediate Welding Using Multiple Processes **4.2.6**

Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes: oxy-fuel gas cutting and welding, shield metal arc welding (SMAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), gas tungsten arc welding (GTAW). Fee Charged.

WLDG 2435 Advanced Layout and Fabrication **4.2.4**

An advanced course in layout and fabrication. Includes production and fabrication of layout, tools, and processes. Emphasis on application of fabrication and layout skills. Fee Charged.

WLDG 2443 Advanced Shielded Metal Arc Welding (SMAW) **4.2.4**

Advanced topics based on accepted welding codes. Training provided in various electrodes in shielded metal arc welding processes with open V-groove joints in various positions.

WLDG 2447 Advanced Gas Metal Arc Welding (GMAW) **4.2.4**

Advanced topics in Gas Metal Arc Welding (GMAW). Includes welding in various positions. Fee Charged.

WLDG 2451 Advanced Gas Tungsten Arc Welding (GTAW) **4.2.6**

Advanced topics in GTAW welding, including welding in various positions and directions. Fee charged.

WLDG 2553 Advanced Pipe Welding **5.3.6**

Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes. Fee Charged.