Chemistry

AS (60 SCH*)

*Semester Credit Hour 8/2020

First Semester - 15 SCH

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

Second Semester - 17 SCH

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

Third Semester - 14 SCH

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

Fourth Semester - 14 SCH

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

Marketable Skills

Critical Thinking Skills: Creative thinking, innovation, inquiry, and analysis, evaluation, and synthesis of information, using technology as appropriate.
Communication Skills: Effective development, interpretation, and expression of ideas through written, oral, and visual communication.
Empirical and Quantitative Skills: Manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
Teamwork: Ability to be flexible and to consider different points of view and to work effectively with others, taking the initiative when appropriate, to support a shared purpose or goal.
Social Responsibility: Intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities.
Personal Responsibility: A strong work ethic and the ability to connect choices, actions, and consequences to ethical decision-making.

High School Endorsements

STEM

Program Outcomes

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

Transfer Path / Requirements

For Texas A&M Commerce

- A student completing the Paris Junior College curriculum is considered Core complete at Texas A&M Commerce.
- No more than 60-66 sch from PJC will be applied to a bachelor degree at TAMU-Commerce. Another 60 or more must be completed at TAMU-Commerce.
- For the Chemistry major, 8 advanced courses are required by TAMU-Commerce: Chem 351 (Physical Chemistry) plus 7 courses in quantitative, biochemistry, and inorganics.
- Required support courses include 2 in university physics, and calculus 3.

Career Opportunities

Chemists and Materials scientists; Dentists; Chemical engineers; Veterinarians; Biochemists; Biophysicists; Nurse Anesthetists; Physical Scientists (all other); Physician assistants; Chemistry teachers (postsecondary); Medical and Clinical laboratory technologists; Secondary school teachers; Nuclear medicine technologists; Pharmacists; Family and General Practitioners; Anesthesiologists.