



# Biology

AS (60 SCH\*)

\*Semester Credit Hour

5/2024

## First Semester - 17 SCH

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

## Second Semester - 14 SCH

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

## Third Semester - 16 SCH

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

## Fourth Semester - 13 SCH

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

## Marketable Skills

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

## Program Outcomes

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

## High School Endorsements

STEM

## Expected Salary

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

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

## Transfer Path/Requirements

For Texas A&M-Commerce

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

## Career Opportunities

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