

# COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS

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Dr. Judy Cezeaux, Dean  
Corley Hall, Room 112  
(479) 968-0353  
jcezeaux@atu.edu  
<https://www.atu.edu/appliedsci/>

## Departments

- Biological Sciences
- Engineering & Computing Sciences
- Mathematics & Statistics
- Physical & Earth Sciences

## Programs of Study

The College of Science, Technology, Engineering, and Mathematics offers programs of study leading to baccalaureate degrees as listed below:

### Bachelor of Science

- Applied Statistics
  - Actuarial Science
  - Data Science
- Biology with options in:
  - Biomedical
  - General
- Chemistry with options in:
  - Biochemistry
  - Environmental
  - General
  - Professional (A.C.S. Approved)
- Computer Science
- Computer Science Education
- Cybersecurity
- Engineering Physics
- Environmental Science
- Fisheries & Wildlife Science\*
- Geology with options in:
  - Environmental
  - Petroleum
  - Professional
- Information Technology
- Mathematics
- Medical Laboratory Science
- Physics

### Secondary Education with Teacher Licensure In

- Mathematics
- Computer Science

### Bachelor of Science in Computer Engineering

- Computer Engineering

### Bachelor of Science in Electrical Engineering

- Electrical Engineering
- Electrical Engineering with Biomedical Option

### Bachelor of Science in Mechanical Engineering

- Mechanical Engineering

### Associate of Applied Science

- Information Technology
- Cybersecurity

### Associate of Science in Nuclear Technology

- Nuclear Technology

### Associate of Science in Manufacturing

- Manufacturing

### Certificates of Proficiency

- Computer Networking
- Computer Programming

## Mission

The mission of the College of Science, Technology, Engineering, and Mathematics is to provide support and oversight of our high-quality accredited Associate, Bachelor of Science and Masters of Science degree programs.

## Vision

The vision of the College is to be recognized for providing high-quality educational opportunities which: prepare students for their chosen profession, provide a fundamental broad-based education, and develop educated citizens with an aspiration for life-long learning.

## Core Values

The College of Science, Technology, Engineering, and Mathematics values integrity first, service to constituents and excellence in preparing graduates for life.

## Principles

The College of Science, Technology, Engineering, and Mathematics:

- Values scholarly activity, especially as it relates to the enhancement of teaching and its positive affect on high-impact student learning,
- Values service to the University and to the local, regional, state and professional communities,
- Seeks to demonstrate to students, and instill in them, high ethical standards of personal and professional conduct,
- Strives to achieve continuous improvement through rigorous assessment processes,
- Endeavors to equip students with the interdisciplinary, technical, and critical-thinking skills necessary to develop workable solutions to complex problems.

The College is composed of four (4) academic departments:

- Biological Sciences
- Engineering & Computing Science
- Mathematics and Statistics
- Physical & Earth Sciences

These departments offer programs of study leading to associate and baccalaureate degrees. Some departments offer masters degrees.

## Departments and Programs

- Biological Sciences Department (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/>)
  - Biology Minor (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/biology-minor/>)
  - Biology Program (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/biology-program/>)
    - Biology - Biostatistics Option, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/biology-program/biology-bs-biostatistics-option/>)
    - Biology, Bachelor of Science - Biomedical Option (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/biology-program/biology-bs-biomedical/>)
    - Biology, Bachelor of Science - Ecology and Evolution Option (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/biology-program/biology-bs-ecology-evolution-option/>)
    - Biology, Bachelor of Science - Environmental Option (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/biology-program/biology-bs-environmental-option/>)
  - Fisheries and Wildlife Sciences, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/fisheries-wildlife-sciences-bs/>)
  - Pre-Health Profession in Biology, Advanced Certificate (<https://catalog.atu.edu/undergraduate/programs/stem/biological-sciences/pre-health-profession-biology-ac/>)
- Engineering & Computing Sciences Department (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/>)
  - Computing Sciences (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/>)
    - Computer Networking, Certificate of Proficiency (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/computer-networking-cp/>)
    - Computer Programming, Certificate of Proficiency (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/computer-programming-cp/>)
    - Computer Science, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/computer-science-bs/>)
    - Cybersecurity, Associate of Applied Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/cybersecurity-aas/>)
    - Cybersecurity, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/cybersecurity-bs/>)
  - Information Technology, Associate of Applied Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/it-aas/>)
  - Information Technology, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/computing-sciences/it-bs/>)
  - Electric Circuit Design and Analysis, Certificate of Proficiency (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/electric-circuit-design-analysis/>)
  - Electrical Engineering (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/electrical-engineering/>)
    - Computer Engineering, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/electrical-engineering/computer-engineering-bs/>)
    - Electrical Engineering, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/electrical-engineering/electrical-engineering-bs/>)
    - Electrical Engineering, Bachelor of Science - Biomedical (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/electrical-engineering/electrical-engineering-bs-biomedical/>)
  - Mechanical Engineering (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/mechanical-engineering/>)
    - Manufacturing, Associate of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/mechanical-engineering/manufacturing-as/>)
    - Mechanical Engineering, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/mechanical-engineering/mechanical-engineering-bs/>)
    - Nuclear Technology, Associate of Science (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/mechanical-engineering/nuclear-technology-as/>)
- Mathematics & Statistics Department (<https://catalog.atu.edu/undergraduate/programs/stem/mathematics-statistics/>)
  - Mathematics, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/mathematics-statistics/mathematics-bs/>)
  - Mathematics, Certificate of Proficiency (<https://catalog.atu.edu/undergraduate/programs/stem/mathematics-statistics/mathematics-cp/>)
- Physical & Earth Sciences Department (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/>)
  - Chemistry Minor (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-minor/>)
  - Chemistry Technician, Certificate of Proficiency (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-technician-cp/>)
  - Chemistry, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-bs/>)

- Chemistry, Bachelor of Science - Biochemistry Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-bs/chemistry-bs-biochemistry/>)
- Chemistry, Bachelor of Science - Environmental Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-bs/chemistry-bs-environmental/>)
- Chemistry, Bachelor of Science - General Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-bs/chemistry-bs-general/>)
- Chemistry, Bachelor of Science - Professional Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/chemistry-bs/chemistry-bs-professional/>)
- Engineering Physics, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/engineering-physics-bs/>)
- Geology Minor (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/geology-minor/>)
- Geology, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/geology-bs/>)
  - Geology, Bachelor of Science - Environmental Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/geology-bs/geology-bs-environmental/>)
  - Geology, Bachelor of Science - Petroleum Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/geology-bs/geology-bs-petroleum/>)
  - Geology, Bachelor of Science - Professional Option (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/geology-bs/geology-bs-professional/>)
- Physical Science Minor (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/physical-science-minor/>)
- Physics Minor (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/physics-minor/>)
- Physics, Bachelor of Science (<https://catalog.atu.edu/undergraduate/programs/stem/physical-earth-sciences/physics-bs/>)