



ALBANY STATE UNIVERSITY

Department of Natural Sciences



BS Biology

The Bachelor of Science (BS) in Biology program is ideal for students who wish to pursue a professions such as physician assistant, pharmacy, medical, and physical therapy.

Biology majors study the role of living organisms, their function and characteristics. Students gain practical laboratory experience and have opportunities to engage in diverse range of research projects.



Department Chair: Dr. Seong Seo
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Updated November 2020 by the STEM Recruitment Committee - Azeem Saheb

Graduates of Biology

The program prepares students with biology, chemistry, biochemistry, math and physics courses required for medical school admissions and biology graduate programs. Careers include:

- Healthcare
- Medicine
- Dentistry
- Pharmacy

Key Courses Include:

- Principles of Biology
- Organic Chemistry
- Biochemistry
- Genetics
- Cell & Molecular Biology.

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BS Chemistry

Students will obtain the science requirements for admissions into medical school, healthcare, industry, government, and academia.

Chemistry majors at ASU take key core courses which include – Principles of Chemistry, Organic Chemistry, Biochemistry, Scientific Mathematics, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Intermediate Inorganic Chemistry, Computer Applications, Chemical Literature, and Senior Research.



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Graduates of Chemistry

You can go almost anywhere with a Chemistry degree. It is the central of the sciences and vital for the fields of:

- Medicine
- Healthcare
- Pharmaceutical
- Legal Patents
- Business

Students interested in Medical School:

The MCAT is 45% Chemistry!

Key Courses Include:

- Principles of Chemistry
- Organic Chemistry
- Biochemistry
- Diverse Opportunities of Undergraduate Research

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BS Chemistry - Concentration: Biological Science

This option is a Pre-Medical Pathway ideal for students who wish to major in Chemistry and are interested in pursuing a medical profession. Students will have a greater advantage for admissions into medical schools with the Biological Sciences Concentration as most schools have the mandatory science requirements – Biology, General Chemistry, Organic Chemistry, Physics, Biochemistry, and Genetics.



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Graduates:

As a Pre-Medical Pathway, the program contains coursework in Chemistry/Biology to increase student knowledge of scientific concepts and principles necessary for the Medical College Admissions Test (MCAT):

- *The MCAT is 45% Chemistry!*
- *The Bio/Biochem section consists of 30% Biology and 25% Biochemistry.*

Key Courses Include:

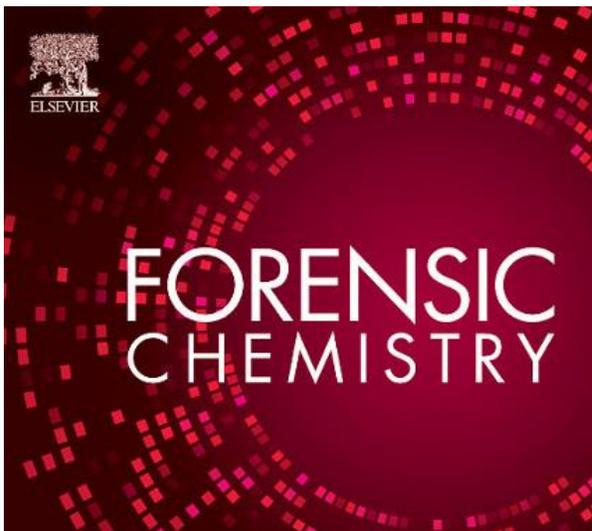
- Principles of Biology
- Genetics
- General/Organic Chemistry
- Biochemistry

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BS Chemistry - Concentration: Forensic Science

This option is ideal for students who are interested in Forensic Science with a Chemistry expertise which allows students to specialize in different forensic areas depending on their career of interest. Students have more diverse range of career opportunities with the Concentration in Forensic Science program.



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Graduates:

Forensic Chemists are scientists who apply their knowledge of chemistry to provide evidence in the prosecution or defense of a crime or lawsuit.

Forensic chemist careers include:

- *FBI*
- *GBI*
- Forensic Criminalists
- Law Enforcement Agencies

Key Courses Include:

- General/Organic Chemistry
- Biochemistry
- Instrumental Analysis
- Forensic Chemistry
- Forensic Serology & DNA

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BS Forensic Science

Forensic science is the discipline in which professionals use scientific means to analyze physical crime evidence. This evidence is then presented in court of law in order to help determine a verdict.

The major is suited for students who want to pursue careers that helps identify criminals and analyze evidence. The program focuses on forensic techniques and their applications and is ideal for students interested in pursuing careers as forensic scientists who play a vital role in the matters of criminal justice.



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Graduates of Forensic Science

The program offers student internships opportunities for students to gain practical experience towards real-world scenarios. Career pathways include:

- *FBI*
- *GBI*
- Forensic Criminalists
- Law Enforcement Agencies

Key Courses Include:

- Forensic Chemistry
- Forensic Photography
- Forensic Microscopy of Trace Evidence
- Crime Scene Investigation

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