

PATHWAYS | BIOCHEMISTRY

Bachelor of Science in Biochemistry



COLLEGE OF
SCIENCES &
MATHEMATICS

COURSE SELECTION

FRESHMAN

- In CHEM 1110 and 1120 you will learn the general principles and fundamental concepts of chemistry.
- Gateway Courses- CHEM 1110/1111 General Chem I lecture/lab. CHEM 1120/1121 General Chem II lecture/lab. BIOL 1020/1021 Principles of Biology.

SOPHOMORE

- Develop your organic and analytical chemistry knowledge and improve your laboratory skills.
- Gateway Courses- CHEM 2070/2071 Organic Chem I Lecture/lab. CHEM 2080/2081 Organic Chem II Lecture/lab.

JUNIOR

- Study applications to in depth chemical questions through more diverse chemistry courses.
- Gateway courses: BCHE 5180/5181 Biochemistry I. BCHE 5190/5191 Biochemistry II.

SENIOR

- Finish courses in your plan of study with Inorganic Chemistry, Computational Chemistry, and Instrumental Analysis.

ASK FOR ASSISTANCE

- Students are assigned a faculty advisor to develop a curriculum plan, and you are required to meet with your advisor prior to registration each semester.
- Obtain guidance from your advisor about undergraduate research opportunities.



Sciences Center Classroom Building, home of COSAM student advising.

- Academic Support provides several *free* resources to improve performance including Study Partners, Supplemental Instruction and academic coaching (auburn.edu/academicsupport)
- Meet with your faculty advisor to discuss graduate school options and the application process, and/or meet with someone in the Career Center to explore career options
- Begin studying for the Graduate Record Exam (GRE) if you are planning for graduate school.
- Have a graduate check by advisors in COSAM (Fall semester).
- Ask the Career Center for help in preparing your resume (CV), interviewing skills and statement of intent.
- Identify your reference letter writers early and provide at least two weeks for writing your letters.

GAIN EXPERIENCE

- Seek opportunities to join freshman leadership programs and student organizations related to your individual interests.
- Use LinkedIn (linkedin.com/alumni) to identify past graduates of the department to set up informal interviews and gain understanding of uses of biochemistry in the workplace.



- Network with faculty in informal settings and connect with successful professionals in the field of chemistry by joining the Auburn Chemistry Society or the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE).
- Look for undergraduate research opportunities based on your scientific interests. Contact faculty members performing research in a relevant field of interest to discuss various research opportunities.
- Attend weekly departmental colloquium seminars.
- Present your research at scientific meetings related to your field of interest.

GET INVOLVED

- Join the Auburn University Department of Chemistry & Biochemistry Facebook page for information on activities taking place in the department.
- Utilize AUIvolve (auburn.edu/auivolve) to identify organizations of interest to attend meetings and enhance your resume.



- Find opportunities for volunteering through the COSAM outreach program.
- Apply for summer internships and fellowships in scientific areas of interest.
- Pursue officer positions in your organizations to enhance your leadership skills.
- Become a tutor, Supplemental Instructor (SI), or Undergraduate Teaching Assistant (UTA).
- Give back to the community. Find out ways to share your experience and knowledge through volunteering.

CAREER PLANNING

AUBURN UNIVERSITY CAREER CENTER

303 MARY MARTIN HALL | [AUBURN.EDU/CAREER](http://auburn.edu/career)

This program prepares students for entrance into graduate education. Students will study general chemical process with an emphasis on chemical processes in biological systems. Competitive candidates will want to take advantage of undergraduate research opportunities to gain experience in and exposure to the field.



Mary Martin Hall, home of the Auburn University Career Center

FORENSIC SCIENTIST
MINIMUM EDUCATION: B.S./B.A./M.S.

ENTRY LEVEL SALARY RANGE: \$35.6K - \$52.7K

SCIENCE POLICY/LAW
MINIMUM EDUCATION: M.S./J.D./PH.D.

ENTRY LEVEL SALARY RANGE: \$50.7K - \$94.7K

PHYSICIAN - GENERAL PRACTITIONER
MINIMUM EDUCATION: M.D./D.O.

ENTRY LEVEL SALARY RANGE: \$106.3K - \$176.1K

These are just three options out of many that biochemistry majors pursue. For more career options be sure to check out "What Can I Do With a Major In..." on auburn.edu/career.