

PATHWAYS | CHEMISTRY - PRE-MED/PRE-DEN

Bachelor of Science in Chemistry



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- SCHM 1890, Pre-Health Orientation.

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 via physical chemistry, biochemistry and chemical literature.
- Gateway courses: CHEM 3160.

SENIOR

- BCHE 5190/5191, biochemistry II. Expand your chemical repertoire by taking a chemistry elective.

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 the pre-health director if applying to professional school or with faculty members for graduate program applications
- Look for notices regarding the start of the PPAC process if pursuing professional education
- 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

- Shadow healthcare professionals and scientists involved in biomedical research
- Volunteer at private and public clinics or seek part-time employment in the biomedical field
- 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.
- Take online practice tests (DAT, MCAT, GRE) and the actual test about a year before applying for professional or graduate school programs
- Continue undergraduate research (auburn.edu/undgres)
- Use PPAC if applying to dental, medical or optometry school programs
- Continue to shadow, conduct research, participate in extracurricular activities and community service

GET INVOLVED

- Join the Auburn University Department of Chemistry & Biochemistry Facebook page for information on activities taking place in the department.
- Join student chapters of professional organizations related to your area of interest to maintain knowledge of your desired field including Alpha Epsilon Delta (AED) if pursuing a health professions career



- 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 advanced education in chemistry and/or professional medical areas. Students will study chemical processes, organic and inorganic, physical, biochemical, analytical chemistry. Competitive candidates will have strong GPAs and significant outside of the classroom experience.

BIOLOGICAL TECHNICIAN
MINIMUM EDUCATION: B.S.

ENTRY LEVEL SALARY RANGE: \$22.8K - \$36.6K

INDUSTRY RESEARCH SCIENTIST
MINIMUM EDUCATION: M.S./PH.D.

ENTRY LEVEL SALARY RANGE: \$35.9K - \$54.5K

DENTIST
MINIMUM EDUCATION: D.D.S./D.D.M./D.M.D.

ENTRY LEVEL SALARY RANGE: \$62.9K - \$166.5K

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

Mary Martin Hall, home of the Auburn University Career Center

Updated: October 3, 2016