

PATHWAYS

MICROBIAL, CELLULAR & MOLECULAR BIOLOGY - CELL & MOLECULAR BIOLOGY OPTION

Bachelor of Science in Microbial, Cellular & Molecular Biology



COLLEGE OF
SCIENCES &
MATHEMATICS

COURSE SELECTION

FRESHMAN

- Gateway courses: BIOL 1020/1021, BIOL 1030/1031, CHEM 1030/1031, CHEM 1040/1041

SOPHOMORE

- Complete core requirements and foundation science courses
- Gateway Courses: BIOL 3000, 3200; CHEM 2070/2071, 2080/2081

JUNIOR

- Consult with your faculty advisor to plan your curriculum to be sure courses are offered during the semester you want to take them
- Gateway Courses: BIOL 4100, 4101, 5220, and 5521
- In preparation for graduation next year, get a Credit Check with your COSAM academic advisor

SENIOR

- Consult with your faculty advisor to select electives that best fit your career or graduate school goals
- BIOL 4950: Senior Seminar should be taken during your senior year

ASK FOR ASSISTANCE

- Meet with your academic advisor to familiarize yourself with courses and prerequisites



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.

- Work with the Career Center to update your CV
- Apply to grad school early for the best chance at an assistantship.

GAIN EXPERIENCE

- Seek opportunities to volunteer in a faculty research lab

- Investigate internship opportunities, especially during the summer of Sophomore and Junior years
- Begin an undergraduate research project (auburn.edu/undgres)

- Credit for internships can be earned via BIOL 4920 (Internship in Biology)
- Begin/continue an undergraduate research project (auburn.edu/undgres)
- Consider being an Undergraduate Teaching Assistant (UTA) for a biology course, if you are considering graduate school.

- Attend All Major Career Expo and STEM Career Expo (auburn.edu/career/events)
- Attend professional scientific meetings
- Complete an undergraduate research project

GET INVOLVED

- Join the Microbiology Club
- If interested in a Health Career, explore Alpha Epsilon Delta (www.auburn.edu/aed)
- Utilize AUIinvolve (auburn.edu/auiinvolve) to identify organizations of interest to attend meetings and enhance your resume.



- Join the Auburn University Department of Biological Sciences Facebook page for information on department activities
- Continue gaining experience with the Micro Club or other campus organizations
- Join the American Society for Microbiology with a student membership



AMERICAN SOCIETY FOR MICROBIOLOGY

- If you meet the requirements, consider joining Beta Beta Beta, the National Biological Honor Society
- Pursue leadership roles in student organizations in which you participate

CAREER PLANNING

AUBURN UNIVERSITY CAREER CENTER

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

This program prepares students for entrance into a variety of fields. It is especially suited for those with interest in genetic materials (DNA, RNA, etc.) and those interested in pursuing professional or graduate education. Students in this field should maintain strong performance academically and experientially.

MEDICAL RESEARCHER

MINIMUM EDUCATION: M.D. & Ph.D.

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

PHYSICIAN

MINIMUM EDUCATION: M.D./D.O.

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

UNIVERSITY PROFESSOR

MINIMUM EDUCATION: Ph.D.

ENTRY LEVEL SALARY RANGE: \$39.5K - \$74.5K

These are just three options out of many that microbial, cellular & molecular biology 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

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