

PATHWAYS | MICROBIAL, CELLULAR & MOLECULAR BIOLOGY - PRE-VETERINARY 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

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

JUNIOR

- Consult with your faculty advisor to select electives that best fit your career or graduate school goals and plan your curriculum to be sure courses are offered during the semester you plan to take them. Long range schedules are on the COSAM website.
- Gateway Courses: BIOL 4100, ANSC 3400
- BIOL 4950: Senior Seminar should be taken during your junior year if you are admitted to Vet School before your senior year

SENIOR

- Continue to consult with your faculty advisor to select electives that best fit your career or graduate school goals

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 veterinary school and graduate school options and the application process, and/or meet with someone in the Career Center to explore career options
- Begin to think about possible faculty and other professionals to write letters of recommendation for you.
- Work with the Career Center to update your *curriculum vita* (CV)
- Complete VCMA by September 15. Request letters and participate in practice interviews.
- If you are applying to graduate school, you'll also need letters.

GAIN EXPERIENCE

- Seek opportunities to volunteer in a veterinary clinic or in a faculty research lab
- Begin shadowing in a vet office or animal shelter. Vet schools want approximately 400 hours of contact with animals for a successful application.
- Auburn University provides many opportunities for gaining experience in the veterinary field, including the Southeastern Raptor Center, clinical practices at the vet school, and faculty research.
- Investigate internship opportunities, especially during the summers 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 an undergraduate research project (auburn.edu/undgres)
- Continue shadowing.
- Attend All Major Career Expo and STEM Career Expo (auburn.edu/career/events)
- Complete an undergraduate research project

GET INVOLVED

- The Pre-Veterinary Medical Association helps members learn expectations for pre-veterinary and veterinary education.
- Join the Auburn University Department of Biological Sciences Facebook page for information on department activities
- Explore the various clubs such as the Microbiology Club, the Society for Conservation Biology Club and the Beta Beta Beta Honor Society that focus on topics relevant to veterinary medicine.
- Pursue leadership roles in student organizations in which you participate
- Become an Undergraduate Teaching Assistant
- Join a professional society, such as American Society for Microbiology
- Attend a professional conference
- Continue to pursue leadership roles in student organizations in which you participate
- Attend professional scientific meetings
- If you meet the requirements, consider joining Beta Beta Beta, the National Biological Honor Society

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 veterinary medicine and those interested in pursuing other professional or graduate education. Students in this field should maintain strong performance academically and experientially.



Mary Martin Hall, home of the Auburn University Career Center

Updated: October 3, 2016

MEDICAL RESEARCHER

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

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

CLINICAL MICROBIOLOGIST

MINIMUM EDUCATION: B.S.

ENTRY LEVEL SALARY RANGE: \$35.4K - \$49.3K

VETERINARIAN

MINIMUM EDUCATION: D.V.M.

ENTRY LEVEL SALARY RANGE: \$43.7K - \$68.4K

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.