Biological Sciences

Marine Biology
The Marine Biology major provides students with a strong foundation in basic biological concepts such as genetics, ecology, cell biology and marine systems as well as chemistry and mathematics. The plan of study provides the opportunity to choose elective courses from a wide variety of courses offered at Auburn University. In addition, students are required to take summer courses offered at marine labs around the United States, including Dauphin Island Sea Lab and Gulf Coast Research Lab. Students are also encouraged to consider internships and undergraduate research. Marine Biology graduates are well-prepared for advanced study in any marine science area or employment with marine labs, various governmental and nongovernmental agencies involved with coastal management and conservation, and tourism.

Microbial, Cellular and Molecular Biology
The Microbial, Cellular and Molecular Biology major provides students with an excellent foundation in the areas of microbiology, cellular and molecular biology that emphasizes the understanding of life at the cellular and molecular level. The choice of a formal option within the major allows students to concentrate on a particular area of interest. Each option provides a wide variety of courses and opportunities for undergraduate research. Students selecting the Microbiology option will be well prepared for postgraduate work or career advancement in a number of areas including food, environmental and medical microbiology. Students selecting the Cell and Molecular Biology option would also be well prepared for postgraduate study or career advancement in any area of eukaryotic cell or molecular biology. Both options provide excellent preparation for students interested in biotechnology or professional programs in the health sciences.

Organismal Biology
The Organismal Biology major provides students with a solid foundation in basic biological concepts, such as evolution, ecology, genetics and cell biology and also provides a foundation in physics, chemistry and mathematics. The three formal options within the major allow students to specialize in various ways, while focusing on the study of plants or animals through the choice of elective courses. The major provides a solid foundation for pursuing graduate degrees (M.S. or Ph.D.) in biological fields, but also prepares students for a wide range of laboratory and field-based research positions in environmental resource assessment, management and conservation within federal, state and private agencies or organizations.

Majors
- Marine Biology (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/biologicalsciences/marinebiology_major)
- Microbial, Cellular and Molecular Biology Microbiology Option (MCMB) (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/biologicalsciences/microbialcellularmolecularbiology-microbiology_major)
- Microbial, Cellular and Molecular Biology Cell & Molecular Biology Option (MCCM) (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/biologicalsciences/microbialcellularmolecularbiology-cellmolecularbiology_major)
- Microbiology/Pre-Veterinary Medicine Option (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/prehealthprofessionalcurricula/microbiology_preveterinarymedicine_major)
- Organismal Biology - Conservation & Biodiversity Option (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/biologicalsciences/organbioconversationbiodiversity_major)
- Organismal Biology - Ecology, Evolution & Behavior Option (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/biologicalsciences/organbioecoevolutionbehavior_major)
- Organismal Biology - Integrative Biology Option (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/biologicalsciences/organbiointegrativebio_major)
- Organismal Biology - Pre Veterinary Medicine Option (http://bulletin.auburn.edu/undergraduate/collegeofsciencesandmathematics/prehealthprofessionalcurricula/organbio_preveterinarymedicine_major)