



# COLLEGE OF LIBERAL ARTS

Dean: Dr. Peter D. King

## MISSION STATEMENT

The mission of the Francis Marion University College of Liberal Arts is to provide students with skills and knowledge needed for personal and professional success.

## DEPARTMENT OF BIOLOGY

Chair and Coordinator: Dr. Ann M. Stoeckmann

Faculty: Tamatha Barbeau, Vernon Bauer, Jeffrey Camper, Erin Eaton, Peter King, Travis Knowles, Gerald Long, Jennifer Lyles, David Malakauskas, Lisa Pike, Gregory Pryor, Jeremy Rentsch, Timothy Shannon, Henry Slone, Jeffrey Steinmetz, Ann Stoeckmann, Lorriane Turner, Shayna Wrighten, Paul Zwiers

## MISSION STATEMENT

The Department of Biology offers a liberal arts based baccalaureate degree in biology. Studies are tailored to meet students' future career needs, including pre-medical, pre-dental, and pre-veterinary programs, preparation for graduate studies, or direct entry into careers such as environmental work. Minor and collateral programs in biology are offered, and courses are provided to support the collateral and minor in environmental studies. A two-semester lecture and laboratory sequence supports General Education Requirements. The department places a high value on the laboratory and field component of the education of all students. Superior students are encouraged to engage in research projects, directly supervised by members of the faculty. In cooperative programs with other universities, some students initiate study at Francis Marion University in forestry or wildlife and fisheries biology and later transfer to Clemson University. A degree in biology with emphasis in Medical Technology is offered by Francis Marion University in which students supplement three years of study in the Department of Biology with one year of clinical studies in an approved program.

## MAJOR

A major in biology requires the following:

1. Biology 105\* and 115\*, 106, and 499  
\*Biology 103 and 104 may substitute for 105 and 115 with permission from the department
2. One course in plant biology (either 206, 207, 208, 303, 307, 310, or 313)
3. Biology 301, 302, or 407
4. One course in ecology (either 308, 314, 317, 402, 408, or 411)
5. Biology 401 or 409
6. Additional courses in biology to bring the total to 25 semester hours above the 100 level. Students may select only two courses from the biology 206, 207, 208 series
7. Minor/collateral requirements (two options)
  - a) two 12-hour collaterals approved by the faculty adviser
  - b) an 18-hour minor approved by the faculty adviser

Other requirements include Chemistry 101, 102, and 201 and either Physics 200, 201 and 202 or Physics 215-216.

The minimum number of semester hours required in major courses for a major in biology is 33. The minimum number of semester hours in all courses (major and non-major) required for the major in biology is 120.

To earn a Bachelor of Arts degree with a major in biology, a student must satisfy all requirements for the Bachelor of Science degree and complete a foreign language through 202.

## MINOR

A minor in biology requires 18 hours of biology, including Biology 105, 115, and 106. No more than 12 hours may be below the 199 level.

## COLLATERAL

A collateral in biology requires 12 semester hours of biology, no more than eight of which are below the 199 level.

## OTHER INFORMATION

To advance to higher level biology courses, a student must earn a grade of C or higher in each prerequisite biology course. Internships, Biology 494 and 498, do not fulfill the requirements of biology electives for a biology major, minor, or collateral.

Students planning graduate studies in biology are advised to complete two semesters of organic chemistry, to take introductory courses in calculus, to gain a reading knowledge of a foreign language, and to take two semesters of Biology 497 (one credit hour of reading and planning followed by two credit hours of research).

## ENVIRONMENTAL SCIENCE OPTION IN BIOLOGY

Coordinator: Dr. Jeffrey A. Steinmetz

The Environmental Science Option in Biology offers students the choice of specialization in environmental science at the undergraduate level.

The Environmental Science Option will require the completion of the following courses which include General Education courses, certain core science and mathematics courses, and requirements for the biology major.

Communications.....	9 hours
English 101 (or 101E/L), 102.....	6 or 7
Speech Communication 101.....	3
Social Sciences.....	9 hours
Political Science 101 or 103.....	3
Choose two courses: Economics 203, 340	
Geography 105, 215, Sociology 331.....	6
Humanities.....	12 hours
History.....	3
Art 101, Music 101, or Theatre 101.....	3
Humanities elective.....	3
Literature.....	3
Mathematics.....	6 hours
Mathematics 111, 132, or higher.....	6