

Emphasis-Molecular, Cellular, & MicroBio

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B.A. in Biological Science Description

A B.A. in biological science can prepare a student for a variety of careers or for graduate work in many fields, including organismal biology, medicine, education, cell or molecular biology, ecology, and conservation biology.

Minimum Total Credit Hours: 120 **General Education Requirements**

Requirements: See the General Education/Core Curriculum for the College of Liberal Arts. The math requirement for the B.A. in biological science is 6 hours. This may be met with two of the following courses: Math 121 or Math 125 (but not both), Math 115, Math 123, Math 261 or higher.

Course Requirements

A major in biological science for the B.A. degree requires a minimum of 32 semester hours of biology credit including 24 at the 300 level or above. This requirement includes introductory courses (Bisc 160, 161, 162, 163 for 8 credit hours); biology core courses for 12 credit hours: ecology (Bisc 322), genetics (Bisc 336), and physiology (Bisc 330 or Bisc 438 or Bisc 516); biology electives for 12 credit hours minimum; and the major field achievement test (Bisc 498, which must be taken as a senior) (0 hours). Seminars and nonmajors courses do not satisfy the biology electives requirement. Chem 105, 115, 106, and 116 are required, and chemistry is a recommended minor.

Other Academic Requirements

Students must achieve a grade of C or better in all course work counted for the major in biological science, and every biological science course requires a grade of C or better in all prerequisite courses, including those prerequisite courses from other departments. For example, Bisc 160 and 161 must be passed with a grade of C or better before Bisc 162 and 163 may be taken. In addition, Bisc 160, 161, 162, and 163 must be passed with a grade of C or better before any additional biological science course at the 300 level or above is attempted. Bisc 150, 206, 207, 210, 220, and 492 cannot be used toward a major in biological sciences.

Emphasis-Molecular, Cellular, & MicroBio Degree Requirements

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

General Education

REQUIREMENT	HOURS	DESCRIPTION
First Year Writing I	3	Complete Hon 101 , Writ 100 or Writ 101 with a passing grade.
First Year Writing II	3	Complete one of the following courses with a passing grade: Liba 102 , Writ 102 or Hon 102 .
6 hrs literature survey	6	Complete 6 hours of literature survey with a passing grade. Choose from the following courses: Eng 220 , 221 , 222 , 223 , 224 , 225 , or Eng 226 .
6 hrs modern/ancient language 200+	6	Successfully complete at least 6 hours at the 200 level or above in one modern or ancient language.
6 hrs history	6	Complete 6 hours in History (HST) course work with a passing grade.
3 hrs humanities	3	African American studies; classical civilization; environmental studies 101, gender studies (G St 201 , 301 , 333 , 350); Liba 202 , 305 , 312 ; philosophy; religion; Southern studies (S St 101 , 102); Rhet 201 . In addition, gender studies courses that are cross-listed with African American studies, classical civilization, English, modern languages, philosophy, or religion courses will satisfy this requirement.
6 hrs social science	6	Successfully complete 6 semester hours in anthropology, economics, political science, psychology, or sociology.
3 hrs fine arts	3	Complete 3 hours in the area of fine or performing arts. Choose from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Acceptable freshman or sophomore-level courses are: AH 101 , AH 102 , AH 201 , AH 202 ; Music 101, Music 102, Music 103, Music 104, Music 105; Dance 200; and Theatre 201.
3 hrs math 100+	3	Successfully complete 3 hours of Math at the 100 level or above except for Math 245 and Math 246 .
9-12 hrs science	11	Courses may be chosen from astronomy, biology, chemistry, geology, Liba 205 , 205L, 150, 151, 315, 315L and physics. Two semesters of course work in one subject and one semester in a subject from another department are required. Each course must be a minimum of 3 credit hours. At least two of the courses taken must include laboratories.

Major Requirements



REQUIREMENT	HOURS	DESCRIPTION
Bisc 160 and 161	4	Bisc 160: Biological Sciences I , Bisc 161: Biological Sciences I Laboratory
Bisc 162 and 163	4	Bisc 162: Biological Sciences II , Bisc 163: Biological Sciences II Laboratory
Bisc 330 , 438 , 516	4	Bisc 516: Plant Physiology , Bisc 438: Microbial Physiology , Bisc 330: Introductory Physiology
Bisc 322	4	Bisc 322: General Ecology
Bisc 336	4	Bisc 336: Genetics
Bisc 498		Bisc 498: Major Field Achievement Test
12 hrs electives	12	Complete a minimum of 12 credit hours of BISC electives at the 300 level or above. Directed Study (Bisc 492), Bisc 102 , Bisc 103 , Bisc 104 , Bisc 105 , Bisc 206 , Bisc 207 , seminars, and non-major courses do not satisfy departmental corerequirements for biology majors.
Biology residency hrs	12	Student must earn at least 12 hours of their major courses in residence. Directed Study (Bisc 492), Bisc 102 , Bisc 103 , Bisc 104 , Bisc 105 , Bisc 206 , Bisc 207 , seminars, and non-major courses do not satisfy departmental core requirements for biology majors.
Resident Major GPA		Please contact your academic advisor for grade point requirements.
Overall Major GPA		Please contact your academic advisor for grade point requirements.

Major Requirements II

REQUIREMENT	HOURS	DESCRIPTION
Chem 105	3	Complete Chem 105 with a passing grade.
Chem 106	3	Complete Chem 106 with a passing grade.
Chem 115	1	Complete Chem 115 with a passing grade.
Chem 116	1	Complete Chem 116 with a passing grade.
6 hrs math	6	The math requirement for the B.A. Biological Science may be met with two of the following courses: Math 121 (or Math 125 - but not both), Math 115 , 123 , Math 261 or higher.

