

BIOLOGY MAJOR FOR THE HIGH SCHOOL TEACHING LICENSE (9-12) / BACHELOR OF ARTS

Total Credit Hours: 120

Major Credit Hours: 69

The Department of Biology features a fully approved Biology program that prepares candidates to teach grades 9-12 in Illinois public and private schools. The program is approved by the State Educator Preparation and Licensure Board in conjunction with the Illinois State Board of Education and includes all the requirements for a major in Biology. Biology majors in this concentration must declare majors in both Biology and Secondary Education. See advisors in the Department of Biology and the Department of Education for specific approval and a list of required courses.

Teacher Candidates seeking a Professional Educator License with a Biology Endorsement must complete all requirements of the Department of Education (<https://catalog.lewisu.edu/undergraduate/education-social-sciences/education/>) and the following coursework in the content area as well as professional education courses. Only grades of "C" and above are acceptable in professional education courses and any courses counted toward any endorsement or license. A "C-" or lower grade will require that the course be repeated.

Requirements

Degree Requirements

Biology Department Policies

A grade of "C-" or better must be earned in a prerequisite course in order to advance to the next course in the sequence. Biology majors may take a Biology class only two times. If a student has not achieved a minimum of a "C-" after the second attempt, the student may not repeat the class.

The Biology Department will award three hours of credit for the General Education class BIOL 10000 Introduction to Biology when students have received a score of 4 or 5 on AP tests. No credit is awarded for major classes based on AP scores.

Code	Title	Hours
Core Courses in Biology Major for Teacher Licensure		
Required Courses in Biology:		
BIOL 11000	General Biology 1	4
BIOL 11100	General Biology 1 Lab	1
BIOL 11500	General Biology 2	4
BIOL 11600	General Biology 2 Lab	1
BIOL 22000	Genetics	4
BIOL 22100	Genetics Lab	1
BIOL 22400	General Microbiology	4
BIOL 22600	General Microbiology Lab	1
BIOL 23300	Principles of Environmental Science	4
BIOL 31500	General Ecology and Evolution	3
BIOL 31600	General Ecology Lab	1
BIOL 35500	Molecular Biochemistry with Clinical Correlates	3
or BIOL 35700	Nutritional Biochemistry with Clinical Correlates	

BIOL 35600	Molecular Biochemistry Lab	1
BIOL 40600	Molecular Cell Biology	4
BIOL 49600	Biology Senior Capstone	2
Other Requirements:		
BIOL 38500	Biology Journal Club	1
CHEM 11000	General Chemistry 1	4
CHEM 11100	General Chemistry 1 Lab	1
CHEM 11500	General Chemistry 2	4
CHEM 11600	General Chemistry 2 Lab	1
CHEM 23000	Organic Chemistry I	3
CHEM 22100	Organic Chemistry I Lab	1
CHEM 23500	Organic Chemistry 2	3
CHEM 22600	Organic Chemistry 2 Lab	1
MATH 20900	Calculus 1	4
	or MATH 20400 Calculus for the Life Sciences	
PHYS 10500	Introduction to Astronomy	3
PHYS 20000	College Physics 1	4
PHYS 20100	College Physics 1 Lab	1

Total Hours **69**

Professional Educator License

Secondary education majors must complete the professional educator program of study in their subject area. See content area for Secondary Licensure content requirements.

Additional Coursework

Although not specifically required for the major, the following courses are strongly recommended for the B.A. degree if the student intends to pursue a graduate degree:

PHYS 20000 College Physics 1

PHYS 20100 College Physics 1 Lab

Advanced Writing Requirement

The advanced writing requirement of the General Education curriculum is satisfied by the successful completion of:

BIOL 38500 Biology Journal Club

BIOL 49600 Biology Senior Capstone