

SECONDARY EDUCATION: BIOLOGY BA/BS

Program Requirements

Secondary certification candidates must meet the graduation requirements for their major and the Secondary Teacher Education Program and must have two advisors. (see below)

Code	Title	Credits
Biology Program		
BIOL-181	ECOLOGY, EVOLUTION, DIVERSITY OF LIFE	4.00
BIOL-182	CONCEPTS IN CELLULAR MECHANISMS	4.00
BIOL-331	ECOLOGY	3.00
BIOL-341	GENETICS	4.00
BIOL-372	COMPUTATIONAL BIOSTATISTICS	4.00
CHEM-112	PRINCIPLES OF CHEMISTRY II	4.00
MATH-170	CALCULUS I (Required if not taken as core)	
PHYS-111	GENERAL PHYSICS I	4.00
PHYS-112	GENERAL PHYSICS II	4.00
Select one of the following:		
BIOL-213	PLANT AND ANIMAL FORM AND FUNCTION	4.00
or BIOL-227	HUMAN ANATOMY AND PHYSIOLOGY I	
Select one of the following:		4.00
BIOL-401	MAMMALOGY	
BIOL-402	ORNITHOLOGY	
BIOL-403		
BIOL-404	ENTOMOLOGY	
or BIOL-450	FIELD BOTANY	
Selectives		
Select any BIOL courses numbered 200 or higher ¹		3.00-4.00
Secondary Education Certificate		
See Secondary Education Certificate Requirements below		
Total Credits		42.00-43.00

¹ See Catalog section "Teacher Education Division: Secondary Teacher Certification" regarding certification requirements for this major. Selective course choices could be affected.

Secondary Education Certificate Requirements

Application for admission to the Teacher Education Program is required after successful completion of the first three Phase I courses.

Code	Title	Credits
Phase I - Professional Foundations of Education		
ED-214	PRINCIPLES OF EDUCATION ¹	3.00
ED-225	TECHNOLOGIES FOR TEACHING, K-12	3.00
ED-318	ASSESSMENT OF LEARNING ¹	3.00
ED-321	EDUCATIONAL PSYCHOLOGY ¹	3.00
ED-345	CULTURALLY RELEVANT TEACHING	3.00
SE-322	INCLUSION STRATEGIES K-12 (may be taken in Phase I or Phase II)	3.00
Phase II - Professional Studies in Education		
ED-445	INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12	3.00
ED-447	TEACHING METHODS IN THE CONTENT AREA	2.00
RE-309	DISCIPLINARY LITERACY	3.00
Phase III - Instructional Methods in Education		
ED-452	INTERNSHIP SEMINAR	1.00

ED-460	PROFESSIONAL INTERNSHIP IN EDUCATION 6-12	12.00
Total Credits		39.00

¹ Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

No grade lower than a "C-" will be accepted in any General Education core, Content Major, or 200-level Professional Foundations course. No grade lower than a "B-" will be accepted in any 300- or 400-level education courses in the Secondary Education Program.

A minimum cumulative GPA of 3.0 is required for admission into the Secondary Teacher Education Program. Candidates must also maintain a 3.0 cumulative GPA in their content area classes.

Secondary Education Certificate Requirements

Course	Title	Credits
First Year		
Fall		
ED-214	PRINCIPLES OF EDUCATION	3.00
ED-225	TECHNOLOGIES FOR TEACHING, K-12	3.00
ED-318	ASSESSMENT OF LEARNING	3.00
ED-321	EDUCATIONAL PSYCHOLOGY	3.00
ED-345	CULTURALLY RELEVANT TEACHING	3.00
Credits		15.00
Spring		
ED-445	INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12	3.00
ED-447	TEACHING METHODS IN THE CONTENT AREA	2.00
RE-309	DISCIPLINARY LITERACY	3.00
SE-322	INCLUSION STRATEGIES K-12	3.00
Credits		11.00
Second Year		
Fall		
ED-452	INTERNSHIP SEMINAR	1.00
ED-461	PROFESSIONAL INTERNSHIP IN EDUCATION K-12	12.00
Credits		13.00
Total Credits		39.00

Graduates with a BA/BS in Biology: Secondary Education go on to obtain careers in a variety of fields:

- Secondary Biology Teacher (6-12)
- Adult and Continuing Education
- Research
- Lab Technician
- Training Specialist
- Business and Industry
- Instructional Coach