

Specific Area Endorsement Requirements

Biology

Biology Endorsement Requirements: To be licensed to teach secondary school Biology, the candidate must satisfactorily complete requirements for a baccalaureate degree to include the following **Biology Courses** and **Support Courses** or their **approved** equivalents. Grade requirements for teacher licensure are different than grade requirements for the major. Teacher Licensure candidates must receive grades of "C-" or higher in the coursework listed below.

Biology Courses		
Course	Course Title	Credits
BIO 114	Organisms	4
BIO 124	Ecology and Evolution	4
BIO 214	Cell and Molecular Biology	4
BIO 224	Genetics and Development	4
Additional Credits to Include: <div style="margin-left: 40px;">Botany Zoology Anatomy/Physiology</div>		16
Total Minimum Biology Credits		32
Support Courses		
CHEM 131-132	General Chemistry I & II	6
CHEM 131L-132L	General Chemistry Laboratories	2
CHEM 241	Organic Chemistry I	3
CHEM 242 <u>or</u> CHEM/GEOL 355 <u>or</u> BIO/CHEM 361	Organic Chemistry II <u>or</u> GeoChemistry of Natural Waters <u>or</u> BioChemistry I	3
Physics	A Physics course (<i>excluding Astronomy</i>)	3
Geology	A Geology course	3
Mathematics	(to include Introductory Calculus)	6
Total Support Credits		26
Total Endorsement Credits		58