BIOLOGY (SCIENCE EDUCATION), B.S.

Code

This program is designed for students interested in science education and certification to teach secondary science.

Hours

Requirements for a Major in Biology (Science Education)

Code	TITLE	Hours
Thirty-one semester h	nours including the following: ¹	
Required Courses		
BIO 1305 & BIO 1105	Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory	4
or BIO 1405	Investigations of Modern Biology Concepts I	
BIO 1306 & BIO 1106	Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory	4
or BIO 1406	Investigations of Modern Biology Concepts I	I
BIO 2306 & BIO 2106	Genetics and Genetics Laboratory	4
BIO 3366	Foundations of Evolutionary Biology	3
or BIO 4365	Topics in Evolution	
BIO 4333	Science Leadership: Improvement of Science Education	3
BIO 3V9R	Research ⁴	1
BIO 4001	Achievement Test	0
Select four hours from fulfill more than one of	n each group (a course may not be used to group):	12
Group 1		
BIO 3324	Entomology	
& BIO 3124	and Laboratory for Entomology	
BIO 3429	Comparative Chordate Anatomy	
BIO 4308 & BIO 4108	Genes and Development and Genes and Development Laboratory	
BIO 4426	Vertebrate Histology	
BIO 4432	General Human Anatomy	
Group 2		
BIO 3322 & BIO 3122	Human Physiology and Human Physiology Lab	
BIO 4306 & BIO 4106	Molecular Genetics and Genomics and Molecular Genetics and Genomics Laboratory	
BIO 4332	Comparative Vertebrate Physiology	
Group 3		
BIO 3303 & BIO 3103	Ecology and Ecology Laboratory	
BIO 3324 & BIO 3124	Entomology and Laboratory for Entomology	
BIO 4405	Limnology	
BIO 4406	Aquatic Biology	
BIO 4418	Biology of Wetland and Aquatic Vascular Plants	

BIO 4422	Ichthyology		
BIO 4327	Biology of Mammals		
Subtotal		31	
Required Courses in Other Fields ²			
CHE 1301 & CHE 1101	Basic Principles of Modern Chemistry I and General Chemistry Laboratory I	4	
CHE 1302 & CHE 1102	Basic Principles of Modern Chemistry II and General Chemistry Laboratory II	4	
CHE 3331	Organic Chemistry I	3	
CHE 3332	Organic Chemistry II	3	
CHE 3238	Organic Chemistry Laboratory	2	
GEO 1306 & GEO 1106	The Earth Through Time and The Earth Through Time, Laboratory	4	
or GEO 1307 & GEO 1106	Evolution and Extinction and The Earth Through Time, Laboratory		
GEO 1408	Earth Science	4	
or PHY 1455	Descriptive Astronomy		
MTH 1321	Calculus I	3	
MTH 1322	Calculus II	3	
or STA 2381	Introductory Statistical Methods		
Select one of the following sequences:			
PHY 1408 & PHY 1409	General Physics for Natural and Behavioral Sciences I and General Physics for Natural and Behavioral Sciences II		
PHY 1420 & PHY 1430	General Physics I and General Physics II		
PHY 1420 & PHY 1409	General Physics I and General Physics for Natural and Behavioral Sciences II		
Completion of the Minor in Science Education ³			

- ¹ A grade of "C" or better in 31 hours of biology courses used in the major and a GPA of 2.0 or higher on all BIO courses.

 A grade of "C" or better in all courses required in other fields.
- ³ School of Education contact the advising department in the School of Education - Office of Student and Information Services, located in Draper 100.
- ⁴ A maximum of 3 hours total from 3V9R and 3V90 may be used for elective credit.
- ⁵ A maximum of 2 credit hours of BIO 3111 may be used towards major.