BIOLOGY - SECONDARY MAJOR

Requirements for a Secondary Major in Biology

Code			Hours		
Thirty-five semester hours including the following: 1					
•	uired Courses				
	1305 O 1105	Modern Concepts of Bioscience and Modern Concepts of Bioscience Laboratory	4		
OI	r BIO 1405	Investigations of Modern Biology Concepts I			
	1306 O 1106	Modern Concepts of Bioscience, continued and Modern Concepts of Bioscience Laboratory	4		
OI	r BIO 1406	Investigations of Modern Biology Concepts II			
	2306 O 2106	Genetics and Genetics Laboratory	4		
BIO :	3303	Ecology	3		
BIO :	3366	Foundations of Evolutionary Biology	3		
BIO 4	4001	Achievement Test	0		
Sele	ct at least one ho	our from the following:	1		
В	IO 3100	Seminar in Biology			
В	10 3103	Ecology Laboratory			
В	10 3300	Advanced Topics in Biology			
	IO 3V9R	Research			
	10 4199	Scientific Communication			
	ct three hours fro	m each group:	12		
Grou	•				
	IO 3324 BIO 3124	Entomology and Laboratory for Entomology			
	10 3429	Comparative Chordate Anatomy			
	10 4301	Immunology			
	10 4302	General Microbiology			
&	BIO 4102	and General Microbiology Lab			
	IO 4304 BIO 4104	Medical Entomology and Medical Entomology Laboratory			
	IO 4308 BIO 4108	Genes and Development and Genes and Development Laboratory			
	IO 4323 BIO 4123	Parasitology and Laboratory for Parasitology			
В	IO 4416	, 5,			
В	IO 4422	Ichthyology			
В	IO 4428	Ornithology			
Group 2					
	IO 3322 BIO 3122	Human Physiology and Human Physiology Lab			
	IO 3342	Molecular Cell Biology			
В	IO 4307	Biochemistry and Physiology of the Cell			
	IO 4317 BIO 4117	Plant Physiology and Plant Physiology Lab			
	10 4431				

BIO 4418	Biology of Wetland and Aquatic Vascular Plants			
Group 3				
BIO 3320	Climate Change Biology			
BIO 4310	Biogeography			
BIO 4365	Topics in Evolution			
BIO 4381	Restoration Ecology			
BIO 4405	Limnology			
BIO 4406	Aquatic Biology			
Group 4				
BIO 3350	Genomics and Bioinformatics			
BIO 4306 & BIO 4106	Molecular Genetics and Genomics and Molecular Genetics and Genomics Laboratory			
BIO 4333	Science Leadership: Improvement of Science Education			
Four hours of 3000-4000 level BIO courses				
Subtotal		35		
Required Courses in	Other Fields ²			
CHE 1301	Basic Principles of Modern Chemistry I	4		
& CHE 1101	and General Chemistry Laboratory I			
CHE 1302	Basic Principles of Modern Chemistry II	4		
& CHE 1102	and General Chemistry Laboratory II	•		
CHE 3331	Organic Chemistry I	3		
CHE 3332	Organic Chemistry II	3		
CHE 3238	Organic Chemistry Laboratory	2		
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			
Total Hours 6				
1				

A grade of "C" or better in all BIO courses used in the major and a GPA of 2.0 or higher on all BIO courses completed.
A grade of "C" or better in all courses required in other fields.