

BIOLOGY - BIOSTATISTICS OPTION, BACHELOR OF SCIENCE

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
BIOL 1011	Orientation to the Biological Sciences	1	_____
BIOL 1114	Principles of Biology	4	_____
CHEM 2124 & CHEM 2120	General Chemistry I and General Chemistry I Lab	4	_____
ENGL 1013	Composition I	3	_____
MATH 1113	College Algebra	3	_____
	Hours	15	
Spring			
BIOL 2124	Principles of Zoology	4	_____
CHEM 2134 & CHEM 2130	General Chemistry II and General Chemistry II Lab	4	_____
ENGL 1023	Composition II	3	_____
USHG 1XXX	U.S. History and Government ¹	3	_____
STAT 2163	Introduction to Statistical Methods	3	_____
	Hours	17	
Sophomore			
Fall			
BIOL 2134	Principles of Botany	4	_____
CHEM 3254	Fundamentals of Organic Chemistry	4	_____
PHYS 2014 & PHYS 2000	Algebra-Based Physics I and Physics Laboratory I	4	_____
PSY 2003 or SOC 1003	General Psychology or Introductory Sociology	3	_____
	Hours	15	
Spring			
CHEM 3264	Mechanistic Organic Chemistry	4	_____
COMM 2003 or COMM 2173	Public Speaking or Business and Professional Speaking	3	_____
PHYS 2024 & PHYS 2010	Algebra-Based Physics II and Physics Laboratory II	4	_____
STAT 2304	Programming Languages for Data Science	4	_____
	Hours	15	
Junior			
Fall			
BIOL 3054	Microbiology	4	_____
Biology Elective ³		3	_____
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
STAT 3113	Regression Analysis	3	_____

Electives ⁷		3
Hours		16
Spring		
BIOL 3034	Genetics	4
Biology Elective ³		4
SS 1XXX	Social Science Courses ¹	3
STAT 4153	Experimental Design and Analysis	3
Hours		14
Senior		
Fall		
BIOL 3033	Bioinformatics	3
BIOL 3114 or BIOL 4094	Principles of Ecology or Coastal Ecology	4
FAH 1XXX	Fine Arts and Humanities Courses ¹	3
Statistics Elective ²		3
Electives ⁷		3
Hours		16
Spring		
BIOL 4891	Seminar in Biology	1
Biology Elective ³		8
Statistics Elective ²		3
Hours		12
Total Hours		120

¹ See appropriate alternatives or substitutions in "General Education Requirements".

² Statistics Elective courses include: BDA 3013 Business Spreadsheet Modeling, BDA 3033 Data Modeling and Management, STAT 3183 Statistical Process Control, STAT 4113 Categorical Data Analysis, STAT 4163 Mathematical Statistics, STAT 4383 Machine Learning, STAT 4393 Statistical Learning.

³ Biology Elective courses include: any BIOL course that is 2000, 3000, or 4000 level.

⁴ At least 40 of the total hours required for graduation must be 3000-4000 level courses.