



BACHELOR OF ARTS/SCIENCE

Bioinformatics

2026-2027

GENERAL EDUCATION CORE	REQ	COMP	NEED
Written Communication			
ENGL 101 & 102 OR	6		
ENGL 109			
Oral Communication - Choose 1			
COMM 101, 203, 204	3		
Mathematical Ways of Knowing - Choose 1			
MATH 143, MATH 147, MATH 170	3-5		
Humanistic & Artistic Ways of Knowing - Choose 2 from 2 categories			
ENGL 175, ENGL 257, ENGL 258, ENGL 261 OR	6-8		
NP 101, NP 102, SPAN 101, SPAN 102 OR			
ART 100, HUM 101,150, MUS 101,102,150,151,152,THEA 101			
Scientific Ways of Knowing - Choose 1 course from 2 disciplines; 1 lab			
CHEM 111	4		
BIOF 100	4		
Social & Behavioral Ways of Knowing Choose 2 from 2 categories			
ANTH 102, 120, 170	6		
ECON 201 or 202			
GEOG 102			
HIST 101, 102, 111, 112			
HRPT 184 , 185			
POLS 101, 237, 285			
SOC 101, 102			
SS, 184, 185			
Global Perspective - Choose 1			
ANTH 102, 120, 170, 360	3		
COMM 345, ENGL 258, ENGL 474, GEOG 102			
HIST 101, 102, 111, 112			
HRPT 184 or SS 184 or KIN 220			
NP 101, 102			
POLS 285 or SOC 101			
SPAN 101, 102, 201, 202			
Integrative Seminar: Ethics & Values			
ID 300A-300Z (see course descriptions/options in catalog)	3		
ID 301A			
TOTAL	37-38		
FOREIGN/HERITAGE LANGUAGE	REQ	COMP	NEED
101	Take 16 credits of language if selecting Bachelor of Arts degree. May also count as Diversity.		
102			
201			
202			
TOTAL	16		

MAJOR COURSES		REQ	COMP	NEED
BIOF 301	Computational Genomics	3		
BIOL 181	Ecology, Evolution, Diversity of Life	4		
BIOL 182	Concepts in Cellular Mechanisms	4		
BIOL 213	Plant & Animal Form & Function OR	4		
BIOL 216	Field Experience			
BIOL 331	Ecology	3		
BIOL 341	Genetics	4		
BIOL 355	General Microbiology OR	4		
BIOL 362	Cellular & Molecular Biology			
BIOL 372	Computational Biostatistics	4		
BIOL 460	Evolution	4		
BIOL 490	Directed Study in Biology	4		
CITPT 111	Web Development Basics	3		
CHEM 105	General, Organic & Biochemistry	4		
CS 111	Foundations of Programming	4		
CS 211	Computer Science II	4		
CS 226	SQL: Structured Quer Language	3		
CS 253	Intro to Systems Programming	4		
MATH 170	Calculus I	4		
Select 12 credits from the following				
BIOF 350	Image Analysis	12		
BIOL 227, 228, 312, 314, 330 401, 402, 403, 404, 443, 450				
CS 250, 311, 360, 435, 445				
MATH 175	Calculus II			
TOTAL				
GENERAL ELECTIVES				
TOTAL		6		
SUMMARY				
GENERAL EDUCATION		37-38		
MAJOR		76		
GENERAL ELECTIVES		6		
TOTAL		120		