BACHELOR OF SCIENCE DEGREE IN BIOINFORMATICS Catalog yr: 2024

Name:		
General Education Requirements		
English Composition		
ENGL 101 & 102*	3	3
<u>OR</u> ENGL (106 &) 107 & 108* 3	3	3
<u>OR</u> ENGL 109H*		3
*A grade of Bor higher in ENGL 102, 108 or 109H is require the Mid-Career Writing Assessment (MCWA). Second Language 2nd semester proficiency Mathematics	d to sati	
MATH 122A & 122B (<u>OR</u> 125) Calculus 1		5(3)
General Education		
UNIV 101 Intro to General Education	1	
Exploring Perspectives		
Artist		3
Humanist		3
Natural Scientist		3
Social Scientist		3
Building Connections		
Course 1	3	
Course 2	3	
Course 3		3
Capstone UNIV 301		1
May double dip up to 9 units between general education ar	nd majo	r requirement

Upper Division Requirement

A minimum of 42 units of upper division (300/400 level) coursework is required to complete this degree. Students are responsible to ensure this requirement is met.

Student #	Date:			
Bioinformatic	s Major Foundation Cou	rses		
Chemistry				
CHEM 151 Ger	1			
CHEM 152 Ge	CHEM 152 General Chemistry II 3			
CHEM 241A &	z 243A Organic Chemistry I	3	1	
CHEM 241B &	CHEM 241B & 243B Organic Chemistry II 3			
Biology				
MCB 181R &18	31L Introductory Biology I	3	1	
ECOL 182R &	1			
Mathematics				
MATH 263	Biostatistics		3	
Computer Sci	ence			
ISTA 130	4			
ISTA 116	Statistical Foundations for Infor	3		
Bioinformatic	s Major Core Courses	(19 uni	ts)	
ECOL 296B	Seminar in Bioinformatics (1	Fall only)	1	
ECOL 346	Bioinformatics (Spring only)	4		
ECOL 320	Genetics		4	
ECOL 335 Evolutionary Biology (Spring only)			4	
ISTA 320 Applied Data Visualization			3	
ISTA 321 Data Mining and Discovery			3	
OR ISTA 322	2 Data Engineering		3	

Major Electives

Elective courses must be upper division (300 or 400 level) Minimum of 23 units of upper diviosn Bioinformatics electives

Graduation Requirements						
□ 120 total units	\Box 42 upper division units \Box 30 \odot	units or more completed at UA	□ 2.00 or higher cum & major GPA	□ 56 university units		
□ Major Complete	General Education Complete MCWA Complete- A grade of B or higher in ENGL 102, 108 or 109H OR with ENGL 308.					

		lan with Algebra	
	Place	ement	
Fall	11	Spring	18
MATH 112	3	CHEM 151	4
ENGL 101	3	MATH 120R	4
ECOL 296B	1	ENGL 102	3
UNIV 101	1	ISTA 130	4
Gen Ed	3	Gen Ed	3
Fall	16	Spring	13
MATH 122A	1	MCB 181R	3
MATH 122B	4	MCB 181L	1
CHEM 152	4	CHEM 241A	3
ECOL 182R	3	ISTA 320	3
ECOL 182L	1	MATH 263	3
ISTA 116	3		
Fall	14	Spring	18
ECOL 320	4	ECOL 335	4
CHEM 241B	3	ECOL 346	4
ISTA 321	3	Gen Ed	3
OR 322 OR 331		Major Elective	4
Major Elective	4	Gen Ed	3
Summer	2		
CHEM 243 A	1		
CHEM 243 B	1		
Fall	16	Spring	14
Language 101	4	Language 102	4
Major Elective	3	Major Elective	3
Major Elective	3	Major Elective	3
Gen Ed	3	Major Elective	3
Gen Ed	3	UNIV 301	1
Total Units	120		

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🗆 Major Complete 🔹 General Education Complete 👘 MCWA Complete- A grade of B or higher in ENGL 102, 108 or 109H OR with ENGL 308.					