

B.S. in Bioinformatics

Department of Ecology & Evolutionary Biology, University of Arizona

Check-Sheet for 2022 Catalog

Name:

SID:

Date:

GENERAL EDUCATION

Composition

ENGL 101 & 102 3, 3

or ENGL 106, 107 & 108 3, 3, 3

or ENGL 109 3

Second Language

Second semester proficiency by credit or exam

Intro to General Education

UNIV 101 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

Foundation Mathematics

Prerequisites: Placement **or** MATH 100, 112, 120

MATH 122A & 122B Calculus I 1, 4

or MATH 125 Accelerated Calculus I 3

SCIENCE FOUNDATION

Biostatistics

MATH 263 3

General Chemistry I & II

CHEM 151 **or** 141 & 143 **or** 161 & 163 4

CHEM 152 **or** 142 & 144 **or** 162 & 164 4

Organic Chemistry I & II

CHEM 241A & 243A 4

CHEM 241B & 243B 4

Biology

ECOL 182R & 182L Intro Bio II 3, 1

MCB 181R & 181L Intro Bio I 3, 1

Information Science

ISTA 130 Computational Thinking & Doing 4

ISTA 131 Dealing with Data 4

CORE COURSES

ECOL 296B Seminar in Bioinformatics (Fall) 1

ECOL 320 Genetics (Fall & Summer) 4

ECOL 335 Evolutionary Biology (Spring) 4

ECOL 346 Bioinformatics (Spring) 4

ISTA 116 Statistic Foundations 3

ISTA 331 Principles of Data Science 3

ISTA 350 Prog for Informatics 4

BIOINFOMATICS ELECTIVES: 22 Units

A minimum of 22 Major Elective units must be completed. Major Electives must be upper division (300- or 400-level). Up to six units of graded upper division research credit may count towards Major Electives. View Major Elective options in your Advisement Report or on the EEB website:

eeb.arizona.edu/undergraduate/majors-minors/core-elective-courses

GRADUATION REQUIREMENTS

MCWA: B or Higher in ENGL 102, 108 or 109H

C or Higher in Second Language

120 Units

42 Upper Division Units (300/400 Level)

56 University Units

30 Units at UA

18 Upper Division Units at UA

General Education Complete

2.00 Cumulative GPA

2.00 Major GPA

Major Complete

This is an unofficial summary. Please refer to UAccess for your current Advisement Report and academic status.

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Example Four-Year Plans

The B.S. in Bioinformatics can be completed in four years regardless of initial math placement. The following example Four-Year Plans illustrate typical course-loads by semester with various math placement levels.

	Four-Year Plan with MATH 100 Placement				Four-Year Plan with Algebra Placement			
Year One	Fall	11 (13)	Spring	17	Fall	15	Spring	14
	MATH 100	3	MATH 112	3	MATH 112	3	MATH 120	4
	SAS 100AX	2	ECOL 182R	3	ENGL 101	3	ISTA 131	4
	ENGL 101	3	ECOL 182L	1	ISTA 130	4	ENGL 102	3
	UNIV 101	1	ENGL 102	3	UNIV 101	1	Gen Ed	3
	ECOL 296B	1	ISTA 130	4	ECOL 296B	1		
	Gen Ed	3	Gen Ed	3	Gen Ed	3		
Year Two	Fall	17	Spring	16	Fall	15	Spring	16
	MATH 120	4	MATH 122A	1	MATH 122A	1	MATH 263	3
	ISTA 116	3	MATH 122B	4	MATH 122B	4	MCB 181R	3
	MCB 181R	3	ISTA 131	4	ECOL 182R	3	MCB 181L	1
	MCB 181L	1	ECOL 346	4	ECOL 182L	1	ISTA 331	3
	Gen Ed	3	Gen Ed	3	ISTA 116	3	Gen Ed	3
	Gen Ed	3			Gen Ed	3	Major Elective	3
Year Three	Fall	17	Spring	17	Fall	18	Spring	17
	MATH 263	3	CHEM 152	4	ECOL 320	4	ECOL 346	4
	ECOL 320	4	ISTA 350	4	CHEM 151	4	CHEM 152	4
	CHEM 151	4	Gen Ed	3	ISTA 350	4	Gen Ed	3
	Major Elective	3	Major Elective	3	Gen Ed	3	Major Elective	3
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
Year Four	Fall	18	Spring	16	Fall	15	Spring	16
	Language	4	Language	4	Language	4	Language	4
	CHEM 241A	3	ECOL 335	4	CHEM 241A	3	ECOL 335	4
	CHEM 243A	1	CHEM 241B	3	CHEM 243A	1	CHEM 241B	3
	ISTA 331	3	CHEM 243B	1	Major Elective	3	CHEM 243B	1
	Major Elective	3	Major Elective	4	Major Elective	3	Major Elective	4
	Major Elective	3			GE Capstone	1		
	GE Capstone	1						
	Total Units	129			Total Units	126		

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	Four-Year Plan with Pre-Calculus Placement				Four-Year Plan with Calculus Placement			
Year One	Fall	16	Spring	15	Fall	14	Spring	16
	MATH 120	4	MATH 122A	1	MATH 122A	1	MATH 263	3
	ENGL 101	3	MATH 122B	4	MATH 122B	4	ENGL 102	3
	ISTA 130	4	ENGL 102	3	ENGL 101	3	ECOL 182R	3
	UNIV 101	1	ECOL 182R	3	ISTA 130	4	ECOL 182L	1
	ECOL 296B	1	ECOL 182L	1	UNIV 101	1	Gen Ed	3
	Gen Ed	3	ISTA 116	3	ECOL 296B	1	Gen Ed	3
Year Two	Fall	17	Spring	16	Fall	14	Spring	16
	MATH 263	3	ECOL 346	4	MCB 181R	3	ECOL 346	4
	MCB 181R	3	ISTA 331	3	MCB 181L	1	ISTA 331	3
	MCB 181L	1	Gen Ed	3	ISTA 131	4	Gen Ed	3
	ISTA 131	4	Gen Ed	3	ISTA 116	3	Gen Ed	3
	Gen Ed	3	Major Elective	3	Gen Ed	3	Major Elective	3
	Gen Ed	3						
Year Three	Fall	15	Spring	15	Fall	15	Spring	15
	ECOL 320	4	ECOL 335	4	ECOL 320	4	ECOL 335	4
	CHEM 151	4	CHEM 152	4	CHEM 151	4	CHEM 152	4
	ISTA 350	4	Major Elective	4	ISTA 350	4	Major Elective	4
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
Year Four	Fall	15	Spring	14	Fall	15	Spring	15
	Language	4	Language	4	Language	4	Language	4
	CHEM 241A	3	CHEM 241B	3	CHEM 241A	3	CHEM 241B	3
	CHEM 243A	1	CHEM 243B	1	CHEM 243A	1	CHEM 243B	1
	Gen Ed	3	Major Elective	3	Gen Ed	3	Major Elective	3
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3
	GE Capstone	1			GE Capstone	1	Additional Units	1
	Total Units	123			Total Units	120		