B.S. in Bioinformatics

Department of Ecology & Evolutionary Biology, University of Arizona

Check-Sheet for 2021 Catalog and Prior

Name:

GENERAL EDUCATION

Composition	
ENGL 101 & 102	3, 3
or ENGL 106, 107 & 108	3, 3, 3
or FNGL 109	3

Second Language

Second semester proficiency by credit or exam

Tier One Courses

Individuals and Societies (150)

	3
	3
Traditions and Cultures (160)	
	3
	3
Tier Two Courses	
Tier Two Courses Arts	3
	3
Arts	3 3 3

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

SID:

Date:

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 unoffcial 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	our-Year Plan with MATH 100 Placement				Four-Year Plan with Algebra Placement			
Year One	Fall	12	Spring	17	Fall	14	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	
	ECOL 296B	1	ENGL 102	3	ECOL 296B	1	Gen Ed	3	
	Gen Ed	3	ISTA 130	4	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	
	Fall	17	Spring	17	Fall	18	Spring	17	
Year Three	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	
	Fall	18	Spring	18	Fall	17	Spring	16	
	Language	4	Language	4	Language	4	Language	4	
Year Four	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	4	Major Elective	3	Major Elective	3	Major Elective	4	
	Major Elective	3	Gen Ed	3	Gen Ed	3			

Total Units

132

Total Units 127

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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	ır-Year Plan with Pre-Calculus Placement				Four-Year Plan with Calculus Placement			
Year One	Fall	15	Spring	15	Fall	16	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	
	ECOL 296B	1	ECOL 182R	3	ISTA 130	4	ECOL 182L	1	
	Gen Ed	3	ECOL 182L	1	ECOL 296B	1	Gen Ed	3	
			ISTA 116	3	Gen Ed	3	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	17	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	Gen Ed	3	ISTA 350	4	Major Elective	4	
	Major Elective	3	Major Elective	3	Major Elective	3	Major Elective	3	
			Major Elective	3					
Year Four	Fall	15	Spring	14	Fall	14	Spring	14	
	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	4	Major Elective	3	Major Elective	3	Major Elective	3	

Total Units

124

Total Units

120