

Bioinformatics (BS)

Name: _____ SID: _____ Date: _____

Catalog Year Spring 2022

General Education

Foundation Composition

ENGL 101 (3) _____ ENGL 102 (3) _____

(ENGL 106 [3] _____)

ENGL 107 (3) _____ ENGL 108 (3) _____

ENGL 109H (3) _____

Foundation Mathematics (*Placement may require pre-requisite coursework prior to completion of this requirement.*)

MATH 122A + B (5) or MATH 125 (3) _____

Second Language (2nd semester proficiency)

Intro to General Education

UNIV 101 (1) _____

Exploring Perspectives (4 courses; 12 units)

Artist _____

Humanist _____

Natural Scientist _____

Social Scientist _____

Building Connections (3 courses; 9 units)

Course 1 _____

Course 2 _____

Course 3 _____

Capstone

UNIV 301 (1) _____

Note: Up to three units in each of three courses (for 9 units total) may be used to fulfill GE requirements while double-dipping with requirements in a major, pre-major, or minor.

Courses semester specific to fall (f), spring (s), or summer (ss) are indicated.

University Requirements

120 total units _____ 42 upper division units _____

2.00+ Cum GPA _____ 2.00+ Major GPA _____

30 UA units _____ 18/30 UA major units _____

56+ university units _____ MCWA

Foundation Courses (38-40 units)

General Chemistry

CHEM 151 or 141/143 or 161/163 (4) _____

CHEM 152 or 142/144 or 164/164 (4) _____

Organic Chemistry

CHEM 241A or 242A (3) _____

CHEM 243A or 244A (1) _____

CHEM 241B or 242B (3) _____

CHEM 243B or 244B (1) _____

Introductory Biology

MCB 181R/L (4) _____ ECOL 182R/L (4) _____

Physics

PHYS 102/181 or 141 (4) _____

PHYS 103/182 or 241 (4) _____

Mathematics

MATH 263 (3) _____

Introductory Programming

ISTA 130 (4) _____

ISTA 131 (4) _____

Core Requirements (23 units)

Seminar in BIOIN Statistical Foundations

ECOL 296B (1; F) _____ ISTA 116 (3) _____

Principles & Practice Data Bioinformatics

ISTA 331 (3) _____ ECOL 346 (S; 4) _____

Programming for Informatics

ISTA 350 (4) _____

Genetics

ECOL 320 (SS; F; 4) _____

Evolutionary Biology

ECOL 335 (4; S) _____

Major electives (22 units)

Options for major electives can be found at eeb.arizona.edu.

Semester 1	
CHEM 151 <i>or</i> 141+143	4
MATH 122A+B <i>or</i> MATH 125	3 – 5
MATH <i>or</i> 119A	
ENGL 101	3
ECOL 296B*	1
UNIV 101	1
EP <i>or</i> BC GE	3
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Total	15 – 17

Semester 2	
CHEM 152 <i>or</i> 142+144	4
MATH 263	3
ENGL 102	3
ISTA 130	4
EP <i>or</i> BC GE	3
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Total	17

Semester 3	
CHEM 241A + CHEM 243A	4
MCB 181R + MCB 181L	4
ISTA 131	4
EP <i>or</i> BC GE	3
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Total	15

Semester 4	
CHEM 241B + 243B	4
ECOL 182R + ECOL 182L	4
ISTA 116	3
EP <i>or</i> BC GE	3
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Total	14

Semester 5	
ECOL 320*	4
ISTA 331	3
Second Language	4 – 5
Major elective	3
EP <i>or</i> BC GE	3
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Total	17 – 18

Semester 6	
ECOL 335*	4
ECOL 346*	4
Second Language	4 – 5
ISTA 350	4
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Total	16 – 17

Semester 7	
Major Elective	3
Major Elective	3
Major elective	3
EP <i>or</i> BC GE	6
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Total	15

Semester 8	
Major Elective	3
Major Elective	3
Major Elective	4
UNIV 301 (or semester 7)	1
Additional electives	3 – 6
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Total	14 – 17

Total units required: 120

Upper division units required: 42

Courses marked with an asterisk (*) are semester-specific offerings.

Please note that this checklist indicates BIOINBS requirements. Additional coursework not listed on this page is required in order to graduate.

Five out of seven GE courses are listed as students may double dip up to three courses or nine units.