

# BACHELOR OF SCIENCE DEGREE IN BIOINFORMATICS

Department of Ecology & Evolutionary Biology, Online University of Arizona

Check-sheet for 2026- 2027 Catalog

Name: \_\_\_\_\_

Student #: \_\_\_\_\_

Date: \_\_\_\_\_

## General Education Requirements

### English Composition

WRIT 101 & 102 \_\_\_\_\_ 3 \_\_\_\_\_ 3 \_\_\_\_\_

OR WRIT 106, 107 & 108 \_\_\_\_\_ 3 \_\_\_\_\_ 3 \_\_\_\_\_

OR WRIT 109H \_\_\_\_\_ 3 \_\_\_\_\_ 3 \_\_\_\_\_

OR WRIT 305\* *for transfer students with over 40 units* \_\_\_\_\_ 3 \_\_\_\_\_ 3 \_\_\_\_\_

### Second Language

2nd semester proficiency by credit or exam \_\_\_\_\_

### Mathematics

MATH 122A & 122B Calculus I \_\_\_\_\_

### General Education

UNIV 101 (1) 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 \_\_\_\_\_

### Civics

Course 1 \_\_\_\_\_ 3 \_\_\_\_\_

### General Education Capstone

UNIV 301 \_\_\_\_\_ 1 \_\_\_\_\_

## 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.

## Bioinformatics Major Foundation Courses

### Chemistry

CHEM 141 & 145 General Chemistry I \_\_\_\_\_ 3 \_\_\_\_\_ 1 \_\_\_\_\_

CHEM 142 & 146 General Chemistry I \_\_\_\_\_ 3 \_\_\_\_\_ 1 \_\_\_\_\_

EM 241A & 243A *Organic Chemistry I* \_\_\_\_\_ 3 \_\_\_\_\_ 1 \_\_\_\_\_

CHEM 241B & 243B *Organic Chemistry II* \_\_\_\_\_ 3 \_\_\_\_\_ 1 \_\_\_\_\_

### Biology

MCB 181R & 181L *Introductory Biology I* \_\_\_\_\_ 3 \_\_\_\_\_ 1 \_\_\_\_\_

ECOL 182R & 182L *Introductory Biology II* \_\_\_\_\_ 3 \_\_\_\_\_ 1 \_\_\_\_\_

### Mathematics

MATH 263 *Biostatistics* \_\_\_\_\_ 3 \_\_\_\_\_

### Computer Science

ISTA 130 *Computational Thinking and Doing* \_\_\_\_\_ 4 \_\_\_\_\_

ISTA 116 *Statistical Foundations for Information Age* \_\_\_\_\_ 3 \_\_\_\_\_

## Bioinformatics Major Core Courses (19 units)

ECOL 296B *Seminar in Bioinformatics (Fall only)* \_\_\_\_\_ 1 \_\_\_\_\_

ECOL 346 *Bioinformatics (Spring only)* \_\_\_\_\_ 4 \_\_\_\_\_

ECOL 320 *Genetics* \_\_\_\_\_ 4 \_\_\_\_\_

ECOL 335 *Evolutionary Biology* \_\_\_\_\_ 4 \_\_\_\_\_

ISTA 320 *Applied Data Visualization* \_\_\_\_\_ 3 \_\_\_\_\_

ISTA 321 *Data Mining and Discovery* \_\_\_\_\_ 3 \_\_\_\_\_

OR ISTA 322 *Data Engineering* \_\_\_\_\_ 3 \_\_\_\_\_

### or Electives

*Elective courses must be upper division (300 or 400 level)*

*Minimum of 23 units of upper division Bioinformatics electives*

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At least one major elective course must be writing emphasis.

## Graduation Requirements

120 total units     42 upper division units     30 units or more completed at UA     2.00 or higher cum & major GPA     56 university units

A grade of B or higher in Writing Emphasis elective.