

Bachelor of Science in Bioinformatics

CATALOG YEAR 2025-2026

GENERAL EDUCATION REQUIREMENTS

English Composition

ENGL 101 or 107..... 3 ____

ENGL 102 or 108..... 3 ____

Or

ENGL 109H 3 ____

Foundation Mathematics

MATH 122A/B OR 125 OR 129 (F, S, SS) 4 ____

Second Language

2nd semester proficiency by credit or exam required 3-5 ____

Intro. to General Education

UNIV 101 1 ____

Exploring Perspectives (4 courses)

Artist 3 ____

Humanist..... 3 ____

Social Scientist..... 3 ____

Natural Scientist Satisfied by Major Foundation Sciences

Building Connections (3 courses)

Course One..... 3 ____

Course Two 3 ____

Course Three 3 ____

General Education Capstone

UNIV 301 1 ____

FOUNDATION SCIENCE COURSES

Chemistry (General & Organic Chemistry, with labs)

CHEM 151 OR 161/163 OR 141/1434 ____

CHEM 152 OR 162/164 OR 142/1444 ____

CHEM 241A & 243A OR 242A & 244A3 ____ 1 ____

CHEM 241B & 243B OR 242B & 244B3 ____ 1 ____

BIOINFORMATICS MAJOR

Biostatistics

MATH 263 3 ____

Major Foundation

ECOL 182R - Introductory Biology II (F, S)..... 3 ____

ECOL 182L - Introductory Biology II Lab (F, S)..... 1 ____

MCB 181R - Introductory Biology I (F, S)..... 3 ____

MCB 181L - Introductory Biology I Lab (F, S)..... 1 ____

ISTA 116 - Statistical Foundations for the Info Age 3 ____

ISTA 130 - Computational Thinking and Doing 4 ____

Major Core Requirements (24 units)

ECOL 296B – Seminar in Bioinformatics (F) 1 ____

ECOL 335 - Evolutionary Biology (S) 4 ____

ECOL 320 - Genetics (F) 4 ____

ECOL 346 – Bioinformatics (S) 4 ____

ISTA 320 – Applied Data Visualization 4 ____

ISTA 321 – Data Mining and Discovery 4 ____

OR ISTA 322 Data Engineering 4 ____

Major Electives (23 unit minimum)

Must be upper-division (300- or 400-level)

[LINK TO ELECTIVE LISTS](#) ____

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Total Elective units at least 23: _____

UNIVERSITY REQUIREMENTS:

120 total units ☐ 42 upper division units ☐

2.000+ cum GPA ☐ 2.000+ major GPA ☐

MCWA complete____ Final 18 of 30 units complete____

30+ total units at UA____ 18+ upper-division units at UA____

<60 correspondence/UA exam units____