



Eastern New Mexico University
College of Liberal Arts and Sciences
2025-2027 Catalog
Degree Guide Checklist

Major: Bioinformatics	Minor: Not Required
Emphasis: N/A	Degree: Bachelor of Science (B.S.)

This degree guide is a guide only and is subject to revision. Before enrolling in courses, consult with an adviser and review the current ENMU-Portales catalog.

All course requirements in the major must have a grade of "C" or better. All acceptable transfer work from a junior or community college will be recorded as lower division credit.

Note: The B.A. and B.S. degrees require 120 minimum total credit hours including 40 upper-division (300- or 400-level) hours and ENMU-Portales residency requirement (30 of the final 60 hours must be taken from ENMU-Portales). B.A. candidates must satisfy the language requirement (6-14 hours). Developmental and vocational/technical courses will not be counted toward graduation requirements.

BACHELOR'S DEGREE REQUIREMENTS (6 hours)

FYEX 1110 First-Year Seminar
Diversity/Global Upper-Division Requirement

GENERAL EDUCATION REQUIREMENTS (non-teaching) 31-33 hours

BIOLOGY CORE COURSE REQUIREMENTS (26 hours)

- * BIOL 2110/L Principles of Biology: Cellular and Molecular Biology and Laboratory
- BIOL 2120 Cellular and Molecular Biology
- BIOL 2610/L Principles of Biology: Biodiversity, Ecology and Evolution and Laboratory
- BIOL 2630 General Botany
- BIOL 303 General Ecology
- BIOL 304/L Genetics and Laboratory
- BIOL 306/L Microbiology and Laboratory
- BIOL 492 Undergraduate Seminar and Assessment (taken in the final semester)

* May also be used to satisfy a General Education Requirement.

BIOINFORMATICS REQUIREMENTS (42 hours):

- BIOL 425/L Molecular Biology and Laboratory
- BIOL 435/L Bioinformatics and Laboratory
- * CHEM 1215/L General Chemistry I for STEM Majors and Laboratory
- CHEM 401/L Biochemical Methods and Laboratory
- CHEM 452 Biochemistry
- CSCI 1210 Computer Programming Fundamentals
- CSCI 1220 Python Programming
- * MATH 1220 College Algebra
- * MATH 1350 * Introduction to Statistics
- * PHYS 1230/L Algebra-based Physics I and Laboratory
- STAT 313 Statistical Methods II
- STAT 400 Data Science

* May also be used to satisfy a General Education Requirement.

ELECTIVES as needed to satisfy requirement of 120 total credit hours.