

BIOLOGICAL SCIENCES

(Note: Program requirements for this degree are offered on NOC Enid and NOC Tonkawa campuses only.

At the beginning of each course listing, the four letter abbreviation indicates the department and the four digits indicate the course code used for enrollment. The total course hour value follows each.)

PROGRAM REQUIREMENTS		SUGGESTED COURSE SEQUENCE		The Associate in Science degree program in Biological Sciences prepares students to transfer to a four-year university to pursue a bachelor's degree or entry into the field of life science.
	Credit Hours		Credit Hours	
GENERAL EDUCATION COURSES	37 TOTAL HOURS	FIRST SEMESTER	17 TOTAL HOURS	Students transferring should consult catalog from the institution to which they are planning to transfer to and carefully select courses that will meet the requirements to complete their bachelor's degree.
ENGLISH COMPOSITION COURSES		ENGL 1113 English Composition I	3 hours	
ENGL 1113 English Composition I	3 hours	MATH 1513 College Algebra	3 hours	Career Opportunities
ENGL 1213 English Composition II	3 hours	ORNT 1101 Freshman Orientation	1 hour	
HISTORY AND GOVERNMENT COURSES		BISI 1124 Biology for Majors	4 hours	<ul style="list-style-type: none"> • Animal/Plant Production • Pre-Veterinary • Medical Assistant • Veterinarian Assistant • Research Lab Assistant • Pharmaceutical Sales • Wildlife Technician • Wildlife Production
HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours	BSAD 1113 Digital/Financial Literacy	3 hours	
POLI 1113 American Government	3 hours	HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours	
HUMANITIES COURSES		SECOND SEMESTER	14 TOTAL HOURS	
Electives	6 hours	ENGL 1213 English Composition II	3 hours	
One 3 hour course to be chosen from those listed with the International Dimension and 3 hours of humanities electives.		CHEM 1314 General Chemistry I	4 hours	
MATHEMATICS COURSES		MATH 2023 Elementary Statistics (recommended program elective)	3 hours	
MATH 1513 College Algebra	3 hours	General Education Elective	4 hours	
SCIENCE COURSES		THIRD SEMESTER	15 TOTAL HOURS	
BISI 1124 Biology for Majors	4 hours	CHEM 1414 General Chemistry II	4 hours	
CHEM 1314 General Chemistry I	4 hours	Humanities Elective	3 hours	
COMPUTER SCIENCE COURSES		BISI 1314 General Botany	4 hours	
BSAD 1113 Digital/Financial Literacy (or other approved computer course)	3 hours	PHYS 1114 General Physics I	4 hours	
ORIENTATION COURSES		FOURTH SEMESTER	14 TOTAL HOURS	
ORNT 1101 Freshman Orientation	1 hour	Humanities Elective	3 hours	
GENERAL EDUCATION ELECTIVE COURSES	4 hours	BISI 1414 General Zoology	4 hours	
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences.		BISI 2124 Microbiology	4 hours	
<i>It is advised that if a student takes a three credit hour course to apply to this requirement, the fourth credit hour may be counted from the overage hours taken from the Recommended Program electives below.</i>		POLI 1113 American Government	3 hours	
PROGRAM REQUIREMENT COURSES	20 TOTAL HOURS			
**BISI 1314 General Botany	4 hours			
**BISI 1414 General Zoology	4 hours			
BISI 2124 Microbiology	4 hours			
CHEM 1414 General Chemistry II	4 hours			
**PHYS 1114 General Physics I	4 hours			
<i>Substitutions may be made with prior approval.</i>				
RECOMMENDED PROGRAM ELECTIVE COURSES	3 TOTAL HOURS			
BISI 1214 Environmental Science	4 hours			
**BISI 2024 Entomology	4 hours			
BISI 2324 Comp Vertebrate Anatomy	4 hours			
**BISI 2403 Intro to Wildlife Conservation	4 hours			
MATH 1613 Plane Trigonometry	3 hours			
MATH 2023 Elementary Statistics	3 hours			
**PHYS 1214 General Physics II	4 hours			
NUTR 2123 Intro to Human Nutrition	3 hours			
HPET 2212 First Aid	2 hours			
TOTAL CREDIT HOURS	60			

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.

**These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly.

NOC evaluates students for placement into either foundational or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by A.C.T. test scores or by Accuplacer test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, students may be required to take one or more courses for remediation in English, Math, or Reading, either prior to or concurrent with credit courses. See the NOC testing web page by clicking on the following link: ACT | Northern Oklahoma College (<http://www.noc.edu/act>) for placement guidelines.