

BIOLOGICAL SCIENCES, PRE-PHARMACY OPTION

(Note: Program requirements for this degree are offered on NOC Enid and NOC Tonkawa campus 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: | This Associate in Science degree program prepares students to transfer to a four-year university to pursue the Bachelor's degree in Pharmacy. |
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| General Education Courses - 37 Total Credit Hours | First Semester 16 Total Credit 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 | Career Opportunities Pharmaceutical Research Pharmacy Pharmaceutical Sales |
| ENGL 1213 English Composition II 3 hours | MATH 1513 Algebra for STEM 3 hours | 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 by A.C.T. test scores—primary or a residual 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: http://www.noc.edu/act for placement guidelines. |
| History & Government Courses | BIOL 1124 Biology for Majors 4 hours | <i>This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science Degree.</i> |
| HIST 1483 Amer. History to 1877 3 hours | CHEM 1315 General Chemistry I 5 hours | Program Requirement Courses - 19 Total Hours |
| (or) HIST 1493 Amer. History Since 1877 | ORNT 1101 Freshman Orientation 1 hour | BIOL 2104 Human Anatomy 4 hours |
| POLI 1113 American Government 3 hours | Second Semester 16 Total Credit Hours | BIOL 2124 Microbiology 4 hours |
| Humanities Courses | ENGL 1213 English Composition II 3 hours | CHEM 1414 General Chemistry II 4 hours |
| Electives 6 hours | HIST 1483 Amer. History to 1877 3 hours | MATH 2103 Elementary Calculus 3 hours |
| One 3 hour course to be chosen from those listed with the International Dimension and 3 hours of humanities electives. | (or) HIST 1493 Amer. History Since 1877 | Science Courses |
| Mathematics Courses | BADM 1113 Digital/Financial Literacy 3 hours | BIOL 1124 Biology for Majors 4 hours |
| MATH 1513 Algebra for STEM 3 hours | CHEM 1414 General Chemistry II 4 hours | (or) BIOL 1114 General Biology |
| Science Courses | MATH 2103 Elementary Calculus 3 hours | CHEM 1315 General Chemistry I 5 hours |
| BIOL 1124 Biology for Majors 4 hours | Third Semester 14 Total Credit Hours | Computer Science Courses |
| (or) BIOL 1114 General Biology | POLI 1113 American Government 3 hours | BADM 1113 Digital/Financial Literacy 3 hours |
| CHEM 1315 General Chemistry I 5 hours | Humanities Elective 3 hours | (or other approved computer course) |
| Computer Science Courses | BIOL 2104 Human Anatomy 4 hours | Orientation Courses |
| BADM 1113 Digital/Financial Literacy 3 hours | PHYS 1114 General Physics I 4 hours | ORNT 1101 Freshman Orientation 1 hour |
| (or other approved computer course) | Fourth Semester 14 Total Credit Hours | General Education Elective Courses 3 hours |
| Orientation Courses | Humanities Elective 3 hours | Select courses from: Language Arts, Natural |
| ORNT 1101 Freshman Orientation 1 hour | BIOL 2124 Microbiology 4 hours | Sciences, Foreign Languages, Fine Arts, Humanities, |
| General Education Elective Courses 3 hours | COMM 1713 Intro to Oral Comm 3 hours | Mathematics, Behavioral or Social Sciences. |
| Select courses from: Language Arts, Natural | (recommended elective) | It is advised that if a student takes a three credit hour |
| Sciences, Foreign Languages, Fine Arts, Humanities, | *Program/Gen Ed Electives 4 hours | course to apply to this requirement, the fourth credit |
| Mathematics, Behavioral or Social Sciences. | *Hours from recommended program electives | hour may be counted from the overage hours taken |
| It is advised that if a student takes a three credit hour | and general education electives in Science | from the Recommended Program electives below. |
| course to apply to this requirement, the fourth credit | may be combined for final 6 hours required to | Program Requirement Courses - 19 Total Hours |
| hour may be counted from the overage hours taken | graduate. | BIOL 2104 Human Anatomy 4 hours |
| from the Recommended Program electives below. | <i>This is a suggested sequence timeline only. A</i> | BIOL 2124 Microbiology 4 hours |
| Program Requirement Courses - 19 Total Hours | <i>student may require more than four semesters to</i> | CHEM 1414 General Chemistry II 4 hours |
| BIOL 2104 Human Anatomy 4 hours | <i>complete an Associate in Science Degree.</i> | **MATH 2103 Elementary Calculus 3 hours |
| BIOL 2124 Microbiology 4 hours | **These program courses are typically offered | **PHYS 1114 General Physics 1 4 hours |
| CHEM 1414 General Chemistry II 4 hours | only once a year. See course descriptions for fall | <i>Substitutions may be made with prior approval.</i> |
| **MATH 2103 Elementary Calculus 3 hours | or spring designations and plan accordingly. | Recommended Program Elective Courses - 4 Total |
| **PHYS 1114 General Physics 1 4 hours | | Hours |
| <i>Substitutions may be made with prior approval.</i> | | COMM 1713 Intro to Oral Communications 3 hours |
| Recommended Program Elective Courses - 4 Total | | ECON 2113 Macroeconomics 3 hours |
| Hours | | MATH 2023 Elementary Statistics 3 hours |
| COMM 1713 Intro to Oral Communications 3 hours | | PRVD 1101 Intro to Research 1 hour |
| ECON 2113 Macroeconomics 3 hours | | PRVD 2321 Professional Development 1 hour |
| MATH 2023 Elementary Statistics 3 hours | | PSYC 1113 General Psychology 3 hours |
| PRVD 1101 Intro to Research 1 hour | | Total Credit Hours 60 hours |
| PRVD 2321 Professional Development 1 hour | | |
| PSYC 1113 General Psychology 3 hours | | |
| Total Credit Hours 60 hours | | |