

MATHEMATICS AND PHYSICAL SCIENCE - CHEMISTRY/PHYSICS 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 General Education Courses - 37 Total Credit Hours English Composition Courses ENGL 1113 English Composition I 3 hours ENGL 1213 English Composition II 3 hours History & Government Courses HIST 1483 Amer. History to 1877 3 hours (or) HIST 1493 Amer. History Since 1877 POLI 1113 American Government 3 hours Humanities Courses Electives 6 hours One 3 hour course to be chosen from those listed with the International Dimension and 3 hours of humanities electives. Mathematics Courses MATH 1513 Algebra for STEM 3 hours Science Courses CHEM 1315 Chemistry I 5 hours CHEM 1414 General Chemistry II 4 hours Computer Science Courses BADM 1113 Digital/Financial Literacy 3 hours (or other approved computer course) Orientation Courses ORNT 1101 Freshman Orientation 1 hour General Education Elective Courses 3 hours Program Requirement Courses - 20 Total Hours **PHYS 2014 Engineering Physics I 4 hours MATH 1613 Plane Trigonometry 3 hours **MATH 2144 Calculus I 4 hours **MATH 2154 Calculus II 4 hours **MATH 2164 Calculus III 4 hours PRDV 2321 Professional Development 1 hour Recommended Program Elective Courses - 3 Total Hours (use gen ed hrs to choose 6 hrs) BIOL 1114 General Biology 4 hours BIOL 1314 General Botany 4 hours BIOL 2124 Microbiology 4 hours BIOL 1214 Environmental Science 4 hours ENGL 1223 Technical Writing 3 hours **MATH 2613 Differential Equations 3 hours **PHYS 2114 Engineering Physics II 4 hours Programming Language Course(s) 3 hours Total Credit Hours 60 hours	Suggested Course Sequence: First Semester 18 Total Credit Hours ENGL 1113 English Composition I 3 hours ORNT 1101 Freshman Orientation 1 hour MATH 1513 Algebra for STEM 3 hours MATH 1613 Plane Trigonometry 3 hours CHEM 1315 General Chemistry I 5 hours Humanities Electives 3 hours Second Semester 14 Total Credit Hours ENGL 1213 English Composition II 3 hours HIST 1483 Amer. History to 1877 3 hours (or) HIST 1493 Amer. History Since 1877 CHEM 1414 General Chemistry II 4 hours MATH 2144 Calculus I 4 hours Third Semester 13-14 Total Credit Hours BADM 1113 Digital/Financial Literacy 3 hours MATH 2154 Calculus II 4 hours Program/Gen Ed Elective: MATH 2613 (or) PHYS 2114 Recommended 3-4 hours Humanities Electives 3 hours Fourth Semester 15 Total Credit Hours POLI 1113 American Government 3 hours PHYS 2014 Engineering Physics I 4 hours MATH 2164 Calculus III 4 hours Program/Gen Ed Elective 3 hours PRDV 2321 Professional Development 1 hour <i>This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.</i> **These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly. Some degrees allow General Physics to substitute for Engineering Physics; check with your advisor.	The Chemistry/Physics degree option prepares students to transfer to a four-year university to pursue a bachelor's degree. The program is an excellent starting place for students considering careers in research, medicine, or academia. Students transferring should consult the catalog from the institution to which they are planning to transfer to carefully select courses that will meet requirements to complete their bachelor's degree. Career Opportunities Entry-Level Scientist Biotechnology High School Science Teacher Meteorologist Geologist Labratory Chemist 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.
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