

MATHEMATICS AND PHYSICAL SCIENCE - MATHEMATICS TECHNOLOGY 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.)

<p>Program Requirements</p> <p>General Education Courses - 37 Total Credit Hours</p> <p>English Composition Courses ENGL 1113 English Composition I 3 hours ENGL 1213 English Composition II 3 hours</p> <p>History & Government Courses HIST 1483 Amer. History to 1877 3 hours (or) HIST 1493 Amer. History Since 1877 POLI 1113 American Government 3 hours</p> <p>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.</p> <p>Mathematics Courses MATH 1513 Algebra for STEM 3 hours</p> <p>Science Courses CHEM 1515 Chemistry for Engineers 5 hours PHYS 2014 Engineering Physics I 4 hours (or) PHYS 1114 General Physics I</p> <p>Computer Science Courses BADM 1113 Digital/Financial Literacy 3 hours (or other approved computer course)</p> <p>Orientation Courses ORNT 1101 Freshman Orientation 1 hour</p> <p>General Education Elective Courses 3 hours</p> <p>Program Requirement Courses - 20 Total 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 **ENGR 1111 Intro to Engineering 1 hour PHYS 2114 Engineering Physics II 4 hours (or) PHYS 1214 General Physics II</p> <p>Recommended Program Elective Courses - 3 Total Hours (use gen hrs to choose 6 hrs) **MATH 2613 Differential Equations 3 hours BIOL 1114 General Biology 4 hours BIOL 2124 Microbiology 4 hours ENGL 1223 Technical Writing 3 hours COMM 1713 Intro to Oral Communication 3 hours</p> <p><i>Other course may be substituted with approval.</i></p> <p>Total Credit Hours 60 hours</p>	<p>Suggested Course Sequence:</p> <p>First Semester 16 Total Credit Hours ENGL 1113 English Composition I 3 hours ORNT 1101 Freshman Orientation 1 hour *MATH 1613 Plane Trigonometry 3 hours CHEM 1515 Chemistry for Engineers 5 hours ENGR 1111 Intro to Engineering 1 hour *MATH 1513 Algebra for STEM 3 hours (if ACT score requires it) (or) Additional Program Elective</p> <p>Second Semester 17 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 MATH 2144 Calculus I 4 hours BADM 1113 Digital/Financial Literacy 3 hours PHYS 2014 Engineering Physics I 4 hours</p> <p>Third Semester 14 Total Credit Hours POLI 1113 American Government 3 hours PHYS 2114 Engineering Physics II 4 hours (or) PHYS 1214 General Physics II Humanities Elective 3 hours MATH 2154 Calculus II 4 hours</p> <p>Fourth Semester 13 Total Credit Hours MATH 2164 Calculus III 4 hours Humanities Elective 3 hours Program Electives 6 hours</p> <p><i>This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.</i></p> <p>*Students scoring 26 or above on the math subsection of the ACT do not have to take MATH 1513 Algebra for STEM. Students scoring 28 or above on the math subsection of the ACT do not have to take MATH 1613 Plane Trigonometry. Students not taking Algebra & Trigonometry because of ACT scores or CLEP exam results are required to substitute 3-6 hours of credit in appropriate General Education Electives or RECOMMENDED PROGRAM ELECTIVES to complete 60 hours at NOC and maximize their transfer hours to the four-year institution.</p> <p>**These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly.</p>	<p>The Mathematics degree option is designed to prepare students to transfer to a four-university to pursue a bachelor's degree.</p> <p>Students should consult the catalog from the institution to which they are planning to transfer to complete the bachelor's degree.</p> <p>Career Opportunities Math Education Mathematician Scientist</p> <p>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.</p>
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