

### MATHEMATICS AND PHYSICAL SCIENCE

(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><b>Program Requirements</b></p> <p><b>General Education Courses - 37 Total Credit Hours</b></p> <p><b>English Composition Courses</b> ENGL 1113 English Composition I 3 hours ENGL 1213 English Composition II 3 hours</p> <p><b>History &amp; Government Courses</b> HIST 1483 Amer. History to 1877 3 hours (or) HIST 1493 Amer. History Since 1877 POLI 1113 American Government 3 hours</p> <p><b>Humanities Courses</b> 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><b>Mathematics Courses</b> MATH 1513 Algebra for STEM 3 hours</p> <p><b>Science Courses</b> CHEM 1315 General Chemistry I 5 hours One Additional Science with Lab 4 hours</p> <p><b>Computer Science Courses</b> BADM 1113 Digital/Financial Literacy 3 hours (or other approved computer course)</p> <p><b>Orientation Courses</b> ORNT 1101 Freshman Orientation 1 hour</p> <p><b>General Education Elective Courses</b> 3 hours</p> <p><b>Program Requirement Courses - 22 Total Hours</b> MATH 1613 Plane Trigonometry 3 hours **MATH 2144 Calculus I 4 hours **MATH 2154 Calculus II 4 hours **MATH 2164 Calculus III 4 hours **MATH 2613 Differential Equations 3 hours **PHYS 2014 Engineering Physics 4 hours (or) PHYS 1114 General Physics I</p> <p><b>Recommended Program Elective Courses -1 Total Hours (use gen ed hrs to choose 4 hrs)</b> Select course from: Computer science, Physics, Statistics and Engineering.</p> <p><i>Other courses may be substituted with approval.</i></p> <p><b>Total Credit Hours 60 hours</b></p>	<p><b>Suggested Course Sequence:</b></p> <p><b>First Semester 17 Total Credit Hours</b> ENGL 1113 English Composition I 3 hours MATH 1513 Algebra for STEM 3 hours ORNT 1101 Freshman Orientation 1 hour BADM 1113 Digital/Financial Literacy 3 hours *MATH 1613 Plane Trigonometry 3 hours Program/Gen Ed Elective 4 hours</p> <p><b>Second Semester 15 Total Credit Hours</b> 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 CHEM 1315 General Chemistry I 5 hours</p> <p><b>Third Semester 14 Total Credit Hours</b> POLI 1113 American Government 3 hours PHYS 2014 Engineering Physics 4 hours (or) PHYS 1114 General Physics I Humanities Elective 3 hours MATH 2154 Calculus II 4 hours</p> <p><b>Fourth Semester 14 Total Credit Hours</b> MATH 2164 Calculus III 4 hours MATH 2613 Differential Equations 3 hours Science Elective 4 hours Humanities Elective 3 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 &amp; 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 Associate in Science degree in Mathematics and Physical Science is designed to prepare students to transfer to a four-year university to pursue a bachelor's degree. Students should consult the catalog from the institution to which they are planning to transfer to complete the bachelor's degree.</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: <a href="http://www.noc.edu/act">http://www.noc.edu/act</a> for placement guidelines.</p>
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