

### MATHEMATICS AND PHYSICAL SCIENCE - MATHEMATICS 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><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>  One Biological Science with Lab 4 hours  One Physical or Bio 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> 4 hours  (To avoid additional coursework, the general ed elective is designated for MATH 1613 Plane Trigonometry with additional general education hour to be added to program elective hours.)</p> <p><b>Program Requirement Courses - 15 Total Hours</b>  **MATH 2144 Calculus I 4 hours  **MATH 2154 Calculus II 4 hours  **MATH 2164 Calculus III 4 hours  **MATH 2613 Differential Equations 3 hours</p> <p><b>Recommended Program Elective Courses - 8 Total Hours</b>  Select course from Computer Science, Physics, and Statistics.</p> <p><i>Other course may be substituted with approval.</i></p> <p><b>Total Credit Hours</b> <b>60 hours</b></p>	<p><b>Suggested Course Sequence:</b></p> <p><b>First Semester 16 Total Credit Hours</b>  ENGL 1113 English Composition I 3 hours  BADM 1113 Digital/Financial Literacy 3 hours  ORNT 1101 Freshman Orientation 1 hour  *MATH 1513 Algebra for STEM 3 hours  *MATH 1613 Plane Trigonometry 3 hours  Humanities Elective 3 hours</p> <p><b>Second Semester 14 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  Science Elective (Biological or Physical) 4 hours</p> <p><b>Third Semester 17 Total Credit Hours</b>  POLI 1113 American Government 3 hours  Science Elective (Biological or Physical) 4 hours  Humanities Elective 3 hours  MATH 2154 Calculus II 4 hours  Program Elective 3 hours</p> <p><b>Fourth Semester 13 Total Credit Hours</b>  MATH 2164 Calculus III 4 hours  MATH 2613 Differential Equations 3 hours  General Education/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 &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 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><b>Career Opportunities</b>  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 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: <a href="http://www.noc.edu/act">http://www.noc.edu/act</a> for placement guidelines.</p>
--	--	--