MATHEMATICS AND PHYSICAL SCIENCE – ASTRONOMY OPTION

(Note: Program requirements for this degree are offered on NOC Enid 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
ESCI 1214 Earth Science 4 hours
CHEM 1315 Chemistry I 5 hours

Computer Science Courses
BSAD 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
(To avoid additional coursework, the general elective is designated for MATH 1613 Plane Trigonometry.)

Program Requirement Courses - 16 Total Hours

ASTR 1014 Survey of Astronomy 4 hours
*MATH 2144 Calculus I 4 hours
*MATH 2154 Calculus II 4 hours
*MATH 2164 Calculus III 4 hours

Recommended Program Elective Courses - 7-8 Total Hours

**ASTR 2513 Observatory Methods 3 hours
**PHYS 1114 Physics I 4 hours
**PHYS 1214 Physics II 4 hours
(or) ENGR 2114 Engineering Physics II

Total Credit Hours 60 hours

Suggested Course Sequence:

First Semester 15 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 Chemistry I 5 hours

Second Semester 15 Total Credit Hours
ENGL 1213 English Composition II 3 hours
MATH 2144 Calculus I 4 hours
ENGR 1114 Engineering Physics I 4 hours
(recommended elective)
ESCI 1214 Earth Science 4 hours

Third Semester 18 Total Credit Hours
POLI 1113 American Government 3 hours
BSAD 1113 Digital/Financial Literacy 3 hours
ENGR 2114 Engineering Physics II 4 hours
(recommended elective)
MATH 2154 Calculus II 4 hours
ASTR 1014 Survey of Astronomy 4 hours

Fourth Semester 13 Total Credit Hours
HIST 1483 Amer. History to 1877 3 hours
(or) HIST 1493 Amer. History Since 1877
MATH 2164 Calculus III 4 hours
Humanities Elective 6 hours

This is a suggested sequence timeline only. A student may require more than four semesters to complete an Associate in Science degree.

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.

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: http://www.noc.edu/act for placement guidelines.

**These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly.