

Mathematics and Physical Science - Astronomy Option Associate in Science Degree Division of Engineering, Physical Science & PTEC

Life changing.

This degree is offered on NOC Enid campuses only.

| Pro | gram Re | quirem | ents 60 Total Credit Hours | | | | | | |
|--|--|--------|----------------------------|---------|---------------------|------------|------------------------------------|-----------------------|---------|
| General Education Courses 37 Total Credit Hours | | | | | Pro | 19 hrs | | | |
| Eng | English Composition Courses | | | | | ASTR | 1014 | Survey of Astronomy | 4 hours |
| | ENGL | 1113 | English Composition I | 3 hours | | MATH | 1613 | Plane Trigonometry | 3 hours |
| | ENGL | 1213 | English Composition II | 3 hours | * | MATH | 2144 | Calculus I | 4 hours |
| His | History & Government Courses | | | | * | MATH | 2154 | Calculus II | 4 hours |
| | HIST | 1483 | American History to 1877 | 3 hours | * | MATH | 2164 | Calculus III | 4 hours |
| or | HIST | 1493 | American History Since 187 | 7 | | | | | |
| | POLI | 1113 | American Government | 3 hours | | | | | |
| Hur | Humanities Courses | | | | | | | | |
| | Elective |) | | 6 hours | Red | commend | ded Pro | gram Elective Courses | 4 hours |
| One 3 hour course to be chosen from those listed with the | | | | (Co | mbine wit | h Gen. | Ed hours to choose 7 hours) | | |
| Inte | International Dimension and 3 hours of humanities electives. | | | | | ASTR | 2513 | Observatory Methods | 3 hours |
| Mathematics Courses | | | | | * | PHYS | 1114 | Physics I | 4 hours |
| | MATH | 1513 | Algebra for STEM | 3 hours | * | PHYS | 1214 | Physics II | 4 hours |
| Science Courses | | | | or | ENGR | 2114 | Engineering Physics II | | |
| | ESCI | 1214 | Earth Science | 4 hours | | | | | |
| | CHEM | 1315 | General Chemistry I | 5 hours | | | | | |
| Computer Science Courses | | | | | | | | | |
| | BADM | 1113 | Digital/Financial Literacy | 3 hours | | | | | |
| or Other approved computer course | | | | | | | | | |
| Orientation Course | | | | | | | | | |
| | ORNT | 1101 | Freshman Orientation | 1 hour | | | | | |
| General Education Elective Course 3 hours | | | | | | | es are typically offered only onc | • | |
| Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences | | | | | course de ordingly. | escriptior | ns for fall or spring designations | and plan | |

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.



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This suggested curriculum includes degree requirements and courses that are usually completed in the first two years of a four-year curriculum. Consult with the university or college of your choice and its catalog curriculum as you make plans on where to transfer. Be careful to select the courses that will meet all requirements for both the Associate and Baccalaureate degree programs.

| | Year One | | | | |
|------------------------|----------|-----------------------|-----------------------|---------|------------------------|
| Fall Semester | | | Spring Semester | | |
| ENGL | 1113 | English Composition I | ENGL | 1213 | English Composition II |
| ORNT | 1101 | Freshman Orientation | *MATH | 2144 | Calculus I |
| **MATH | 1513 | Algebra for STEM | | 3 hours | \ \ \ |
| **MATH | 1613 | Plane Trigonometry | | | Physics I recommended) |
| CHEM | 1315 | General Chemistry I | ESCI | 1214 | Earth Science |
| | | | | | |
| | | | | | |
| Total: 15 credit hours | | | Total 14 credit hours | | |

| Year Two | | | | | | |
|-----------------------|---------|--|-----------------|-----------------------|-----------------------------|--|
| Fall Semester | | | Spring Semester | | | |
| POLI | 1113 | American Government | HIST | 1483 | American History to 1877 | |
| BADM | 1113 | Digital/Financial Literacy | or | | | |
| | 4 hours | Program Elective (Engineering Physics II | HIST | 1493 | American History Since 1877 | |
| | | recommended) | *MATH | 2164 | Calculus III | |
| *MATH | 2154 | Calculus II | | 6 hours | Humanities Elective | |
| ASTR | 1014 | Survey of Astronomy | | | | |
| | | | | | | |
| Total 18 credit hours | | | | Total 13 credit hours | | |

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

NOC evaluates students for placement into supplemental/college-level courses or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined by A.C.T. test scores, corresponding A.C.T. challenge tests, holistic placement, or other college approved placement tests. These tests are administered in the Testing Center at NOC. Based upon the scores, students may be required to take one or more supplemental courses for English, Math, Social Science, or Nursing. See the NOC testing web page by clicking on the following link: http://www.noc.edu/act for placement guidelines.

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^{**}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.