### 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**

- CHEM 1515 Chemistry for Engineers: 5 hours
- PHYS 2014 Engineering Physics I: 4 hours

**Computer Science Courses**

- BADM 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

**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
- PRDV 2321 Professional Development: 1 hour
- PHYS 2114 Engineering Physics II: 4 hours

**Recommended Program Elective Courses - 3 Total Hours (use gen ed hrs to choose 6 hrs)**

- ESCI 1214 Earth Science: 4 hours
- BIOL 1314 General Botany: 4 hours
- BIOL 1414 General Zoology: 4 hours
- COMM 1713 Intro to Oral Comm: 3 hours
- ENGL 1223 Technical Writing: 3 hours
- MCOM 1113 Writing for Mass Media: 3 hours
- Additional Programming Language: 3 hours
- BIOL 1114 General Biology: 4 hours
- BIOL 2124 Microbiology: 4 hours

*Other course may be substituted with approval.*

**Total Credit Hours: 60 hours**

### Suggested Course Sequence:

#### First Semester 15 Total Credit Hours

- ENGL 1113 English Composition I: 3 hours
- *MATH 1613 Plane Trigonometry: 3 hours
- CHEM 1515 Chemistry for Engineers: 5 hours
- *MATH 1513 Algebra for STEM: 3 hours
- (if ACT score requires it) (or) Additional Program Elective

#### Second Semester 18 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
- PRDV 2321 Professional Development: 1 hour

#### Third Semester 14 Total Credit Hours

- POLI 1113 American Government: 3 hours
- PHYS 2114 Engineering Physics II: 4 hours
- Humanities Elective: 3 hours
- MATH 2154 Calculus II: 4 hours

#### Fourth Semester 13 Total Credit Hours

- MATH 2164 Calculus III: 4 hours
- Humanities Elective: 3 hours
- Program Electives: 6 hours

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

*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.*

**Career Opportunities**

- Meteorology
- Math Education
- Mathematician
- Scientist

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](http://www.noc.edu/act) for placement guidelines.