

This degree is offered on NOC Enid, NOC Stillwater, and NOC Tonkawa campuses.

**Program Requirements 60 Total Credit Hours**

| General Education Courses  |      |                             |         | 37 Total Credit Hours   | Program Requirement Courses |                             |                    | 20 hours |
|--|------|-----------------------------|---------|---|-----------------------------|-----------------------------|--------------------|----------|
| English Composition Courses  |      |                             |         |   | MATH                        | 1613                        | Plane Trigonometry | 3 hours  |
| ENGL   | 1113 | English Composition I       | 3 hours | **  | MATH                        | 2144                        | Calculus I         | 4 hours  |
| ENGL   | 1213 | English Composition II      | 3 hours | **  | MATH                        | 2154                        | Calculus II        | 4 hours  |
| History & Government Courses   |      |                             |         | **  | MATH                        | 2164                        | Calculus III       | 4 hours  |
| HIST   | 1483 | American History to 1877    | 3 hours | PRDV  | 2321                        | Professional Development    | 1 hour             |          |
| or HIST  | 1493 | American History Since 1877 |         | PHYS  | 2114                        | Engineering Physics II      | 4 hours            |          |
| POLI   | 1113 | American Government         | 3 hours |   |                             |                             |                    |          |
| Humanities Courses   |      |                             |         |   |                             |                             |                    |          |
| Electives  |      |                             | 6 hours | Recommended Program Elective Courses  |                             |                             | 3 hours            |          |
| One 3 hour course to be chosen from those listed with the International Dimension and 3 hours of humanities electives.                     |      |                             |         | (Combine with Gen Ed. Hours to choose 6 hours)  |                             |                             |                    |          |
| Mathematics Courses  |      |                             |         | ESCI  | 1214                        | Earth Science               | 4 hours            |          |
| MATH   | 1513 | Algebra for STEM            | 3 hours | BIOL  | 1314                        | General Botany              | 4 hours            |          |
| Science Courses  |      |                             |         | BIOL  | 1414                        | General Zoology             | 4 hours            |          |
| * CHEM   | 1515 | Chemistry for Engineers     | 5 hours | COMM  | 1713                        | Intro to Oral Communication | 3 hours            |          |
| PHYS   | 2014 | Engineering Physics I       | 4 hours | ENGL  | 1223                        | Technical Writing           | 3 hours            |          |
| Computer Science Courses   |      |                             |         | MCOM  | 1113                        | Writing for Mass Media      | 3 hours            |          |
| BADM   | 1113 | Digital/Financial Literacy  | 3 hours | Additional Programming Language   |                             |                             | 3 hours            |          |
| or Other approved computer course  |      |                             |         | BIOL  | 1114                        | General Biology             | 4 hours            |          |
| Orientation Course   |      |                             |         | BIOL  | 2124                        | Microbiology                | 4 hours            |          |
| ORNT   | 1101 | Freshman Orientation        | 1 hour  |   |                             |                             |                    |          |
| General Education Elective Course  |      |                             | 3 hours |   |                             |                             |                    |          |
| Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences |      |                             |         | **These program courses are typically offered only once a year. See course descriptions for fall or spring designations and plan accordingly. |                             |                             |                    |          |

\* CHEM 1315 and CHEM 1414 can be substituted for CHEM 1515.

Tonkawa -CHEM 1515 offered Fall only

Enid - CHEM 1515 offered Spring only

The Mathematics degree option 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.

**Career Opportunities:** Meteorology, Math Education, Mathematician, Scientist

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                       | HIST                  | 1483 | American History to 1877            |
| **MATH                 | 1613 | Plane Trigonometry                         | or                    |      |                                     |
| *CHEM                  | 1515 | Chemistry for Engineers                    | HIST                  | 1493 | American History Since 1877         |
| **MATH                 | 1513 | Algebra for STEM -If ACT score requires it | *MATH                 | 2144 | Calculus I                          |
|                        |      | or Additional Program Elective             | BADM                  | 1113 | Digital/Financial Literacy          |
|                        |      |  | PHYS                  | 2014 | Engineering Physics I (Spring only) |
|                        |      |  | PRDV                  | 2321 | Professional Development            |
|                        |      |  |                       |      |                                     |
|                        |      |  |                       |      |                                     |
| Total: 15 credit hours |      |  | Total 18 credit hours |      |                                     |

### Year Two

| Fall Semester         |         |                        | Spring Semester       |         |                                 |
|-----------------------|---------|------------------------|-----------------------|---------|---------------------------------|
| POLI                  | 1113    | American Government    | *MATH                 | 2164    | Calculus III                    |
| PHYS                  | 2114    | Engineering Physics II |                       | 3 hours | Humanities Elective             |
|                       | 3 hours | Humanities Elective    |                       | 6 hours | Gen Education/Program Electives |
| *MATH                 | 2154    | Calculus II            |                       |         |                                 |
|                       |         |                        |                       |         |                                 |
| Total 14 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.

\*\*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.

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.