

Mathematics and Physical Science- Chemistry/Physics Option

(Note: Program requirements for this degree are offered on NOC Tonkawa campus only.)

PROGRAM REQUIREMENTS	Credit Hours
GENERAL EDUCATION	37
ENGLISH COMPOSITION	
ENGL 1113 English Composition I	3
ENGL 1213 English Composition II	3
HISTORY AND GOVERNMENT	
HIST 1483 American History to 1877 (or)	
HIST 1493 Am. History Since 1877	3
POLI 1113 American Government	3
HUMANITIES	
Electives	6
One 3-hour course to be chosen from those listed with International Dimension and 3 hours of humanities electives.	
MATHEMATICS	
MATH 1513 College Algebra	3
SCIENCE	
One Biological Science with Lab	4
CHEM 1314 Chemistry I	4
COMPUTER SCIENCE	
BSAD 1113 Digital/Financial Literacy	3
(or other approved computer course)	
ORIENTATION	
ORNT 1101 Freshman Orientation	1
GENERAL EDUCATION ELECTIVES	4
(3 of 4 hours for these electives are designated for MATH 1613 Plane Trigonometry; 1 hour can be combined with requirement for recommended electives below, or selected from courses in Language Arts, Natural Science, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences.)	
PROGRAM REQUIREMENTS	18
**CHEM 1414 General Chemistry II	4
**PHYS 2014 Engineering Physics I	4
**MATH 2145 Calculus I	5
**MATH 2155 Calculus II	5
RECOMMENDED PROGRAM ELECTIVES ...	5
**MATH 2613 Differential Equations	3
**PHYS 2114 Engineering Physics II	4
**PRDV 2321 Professional Development ...	1
BISI 1214 Environmental Science	4
TOTAL CREDIT HOURS	60

SUGGESTED COURSE SEQUENCE	Credit Hours
FIRST SEMESTER	17
ENGL 1113 English Composition I	3
CHEM 1314 General Chemistry I	4
ORNT 1101 Freshman Orientation	1
Humanities Electives	3
MATH 1513 College Algebra (Pre-Calculus) ..	3
MATH 1613 Plane Trig.	3
SECOND SEMESTER	15
ENGL 1213 English Composition II	3
HIST 1483 American History to 1877 (or)	
HIST 1493 American History Since 1877	3
CHEM 1414 General Chemistry II	4
MATH 2145 Calculus I	5
THIRD SEMESTER	15
Humanities Elective	3
BSAD 1113 Digital/Financial Literacy	3
MATH 2155 Calculus II	5
PHYS 2014 Engineering Physics I	4
FOURTH SEMESTER	13
POLI 1113 American Government	3
BISI 1114 General Biology (or)	
BISI 1414 General Zoology	4
*Program/Gen Ed Electives	6

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

*Hours from recommended program electives and general education electives in Science may be combined for final 6 hours required to graduate.

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

The Chemistry/Physics degree option prepares students to transfer to a four-year university to pursue a bachelor's degree. The program is an excellent starting place for students considering careers in research, medicine, or academia. Students transferring should consult the catalog from the institution to which they are planning to transfer to carefully select courses that will meet requirements to complete their bachelor's degree.

Career Opportunities
 Entry-Level Scientist
 High School Science Teacher
 Meteorologist
 Geologist
 Laboratory Chemist

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 ACT 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 at <http://www.noc.edu/act> for placement guidelines.