PROGRAM REQUIREMENTS

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 General Chemistry I ........ 4
COMPUTER SCIENCE
CS 1113 Computer Concepts (or)
BSAD 1113 Digital/Financial Literacy .......... 3
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 .......... 17
**MATH 2145 Calculus I ................. 5
**MATH 2155 Calculus II ................. 5
**MATH 2613 Differential Equations .......... 3
**PHYS 2014 Engineering Physics I (or)
PHYS 1114 General Physics I .......... 4
RECOMMENDED PROGRAM ELECTIVES ...... 6
Select courses from: Computer Science,
Physics and Statistics. Other courses may
be substituted with approval.

TOTAL CREDIT HOURS ......................... 60
PHYS EDUCATION ACTIVITY COURSES ...... 2

SUGGESTED COURSE SEQUENCE

FIRST SEMESTER ............................................. 17
ENGL 1113 English Composition I .......... 3
CS 1113 Computer Concepts (or)
BSAD 1113 Digital/Financial Literacy .......... 3
ORNT 1101 Freshman Orientation .......... 1
BISI 1114 General Biology ....................... 4
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
MATH 2145 Calculus I ......................... 5
CHEM 1314 General Chemistry I ............... 4

THIRD SEMESTER ................................. 15
POLI 1113 American Government .......... 3
PHYS 2014 Engineering Physics I (or)
PHYS 1114 General Physics I ............... 4
Humanities Elective ......................... 3
MATH 2155 Calculus II ....................... 5

FOURTH SEMESTER ................................. 15
MATH 2613 Differential Equations .......... 3
Humanities Elective ......................... 3
Program Electives ................. 7
HPEA Activity Electives .......... 2

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

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

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 ACT test scores or by
COMPASS test scores. These tests
are administered in the Testing Center
at NOC. Based upon the scores, some
or all of the following six (6) courses
may need to be taken:
- MATH 0003 Pre-Algebra
- MATH 0023 Concepts of Algebra
- MATH 0123 Intermediate
Algebra
- ENGL 0123 Basic Composition
- READ 0123 Critical Content
Reading and Scientific Reasoning

Students scoring 26 or above on the math
subsection of the ACT do not have to take
MATH 1513 College Algebra.
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 and 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.