

**Agricultural Sciences**

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1114 General Biology .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences.	
It is advised that if a student takes a <u>three</u> credit hour course to apply to this requirement, the fourth credit hour may be counted from the overage hours taken from the Recommended Program Electives below.	

PROGRAM REQUIREMENTS.....	21
AGRI 1114 Agricultural Economics .....	4
AGRI 1124 Animal Sciences.....	4
AGRI 1224 Intro to Plant & Soil Science .....	4
BISI 2024 Entomology.....	4
AGRI 2123 Livestock Feeding .....	3
AGRI 2222 Live Animal Evaluation .....	2
Substitutions may be made with prior approval.	

RECOMMENDED PROGRAM ELECTIVES 2-3	
ACCT 2103 Accounting I-Financial .....	3
ACCT 2203 Accounting II-Managerial .....	3
BISI 1314 General Botany .....	4
BISI 1414 General Zoology .....	4
SPCH 1713 Intro to Oral Communication....	3
MATH 2023 Elementary Statistics .....	3

TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra .....	3
AGRI 1124 Animal Sciences .....	4
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
AGRI 1224 Intro to Plant & Soil Science .....	4
AGRI 2222 Live Animal Evaluation .....	2
BISI 1114 General Biology .....	4
THIRD SEMESTER .....	14
POLI 1113 American Government .....	3
Humanities Elective .....	3
AGRI 1114 Agricultural Economics .....	4
BISI 2024 Entomology .....	4
FOURTH SEMESTER.....	16
General Education Elective .....	3-4
Humanities Elective .....	3
CHEM 1314 General Chemistry I .....	4
AGRI 2123 Livestock Feeding .....	3
Recommended Program Elective .....	2-3

This is a suggested sequence timeline only. A student may require more than four semesters to complete this Associate in Science 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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

This Associate in Science degree program in Agricultural Sciences consists of 62 hours designed to provide the student with the first two years of general requirements.

The program is designed for seamless transfer to the Bachelor in Science degree in Agriculture Business or Agriculture Ecology at Northwestern Oklahoma State University and includes courses generally completed in the first two years of a baccalaureate degree program.

Students should consult the catalog of the college or university to which they plan to transfer and carefully select courses which will meet requirements for both Associate's and Bachelor's degree programs.

The agricultural sciences program prepares students interested in pre-veterinary medicine, animal production, plant production, agribusiness, food science, and education in any of these areas for transfer to four-year institutions. The foundations of scientific- and business-based agricultural practices are explored. People interested in careers in agriculture need to have experience in science, business, and communications.

**Career Opportunities**

- Ag Economics
- Agribusiness
- Animal Production
- Pre-Veterinary Medicine

**Arts and Sciences**

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1493 Math Applications(or)	
MATH 1513 College Algebra .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	

PROGRAM REQUIREMENTS..... 23  
 This degree program must be completed with the assistance of the graduation adviser to suit the individual student's needs. The credit hour requirements must be selected from the following academic divisions: Agricultural Sciences; Business; Fine Arts; Health, Physical Education, and Recreation; Language Arts; Nursing; Science, Math, and Engineering; and Social Sciences.

TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
<b>TOTAL CREDIT HOURS.....</b>	<b>62</b>

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
Program Requirement Courses .....	6
SECOND SEMESTER .....	15
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
MATH 1493 Math Applications(or)	
MATH 1513 College Algebra .....	3
Program Requirement Courses .....	6
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
Science Elective (Biological or Physical) .....	4
Humanities Elective .....	3
Program Requirement Course .....	6
FOURTH SEMESTER.....	16
General Education Elective .....	4
Humanities Elective .....	3
Science Elective (Biological or Physical) .....	4
Program Requirement Courses .....	5

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

This suggested curriculum includes degree requirements and courses that are usually completed in the first two years of a four-year curriculum. Students should consult the university or college of choice and its catalog curriculum as they make plans on where to transfer. Care should be taken to select the courses that will meet all requirements for both the Associate and Baccalaureate degree programs.

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

### Arts and Sciences - Astronomy Option

## 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1493 Math Applications(or)	
MATH 1513 College Algebra .....	3
SCIENCE	
One Biological Science with Lab .....	4
ASTR 1514 General Astronomy (or)	
ASTR 1504 Observational Astronomy ..	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	12
ASTR 1523 Planetary Science.....	3
ASTR 1533 Search for Life in the Universe	3
ASTR 2513 Observatory Methods.....	3
ASTR 2563 Galaxies and Cosmology .....	3
RECOMMENDED ELECTIVES.....	11
ESCI 1214 Earth Science .....	4
GEOL 1114 Physical Geology .....	4
PHSY 1114 Physics I .....	4
PHSY 1214 Physics II .....	4
MATH 1613 Plane Trigonometry.....	3
CHEM 1314 Chemistry I.....	4
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

## SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	14
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
ASTR 1514 General Astronomy (or)	
ASTR 1504 Observational Astronomy .....	4
ASTR 1523 Planetary Science .....	3
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
MATH 1493 Math Applications(or)	
MATH 1513 College Algebra .....	3
ASTR 1533 Search for Life in the Universe.....	3
Program Recommended Elective .....	4
THIRD SEMESTER .....	15
POLI 1113 American Government .....	3
Humanities Elective .....	3
ASTR 2513 Observatory Methods .....	3
Program Recommended Elective .....	4
HPEA Activity Electives .....	2
FOURTH SEMESTER.....	17-18
General Education Elective .....	4
Humanities Elective .....	3
One Biological Science with Lab .....	4
ASTR 2563 Galaxies and Cosmology .....	3
Program Recommended Elective .....	3-4

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

The degree of Arts and Science – Astronomy Option is designed primarily for students who do not intend to major in science but would like to develop a background in astronomy during their undergraduate experience. The suggested curriculum in Astronomy includes degree requirements and courses that are usually completed in the first two years of a four-year curriculum.

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Business Administration**

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra* .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES .....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS .....	21
ACCT 2103 Accounting I-Financial .....	3
ACCT 2203 Accounting II-Managerial .....	3
BSAD 1103 Introduction to Business .....	3
CS 2123 Business Tech & Applications .....	3
ECON 2113 Macroeconomic Principles .....	3
ECON 2123 Microeconomic Principles .....	3
MATH 2023 Elementary Statistics .....	3
RECOMMENDED PROGRAM ELECTIVES ...	2-3
BMGT 2240 Business Internship .....	3
MATH 2103 Elementary Calculus .....	3
SPCH 1713 Intro to Oral Communications ..	3
TOTAL CREDIT HOURS .....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS .....	62

\* Students scoring 26 or above on the math subsection of the ACT do not have to take MATH 1513 College Algebra and may take MATH 2023 Elementary Statistics or MATH 2103 Elementary Calculus.

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra .....	3
BSAD 1103 Introduction to Business .....	3
SECOND SEMESTER .....	15
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
Recommended Program elective .....	3
CS 2123 Business Tech. & Applications .....	3
General Education Elective .....	3
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
Science Elective (Biological or Physical) .....	4
Humanities Elective .....	3
ACCT 2103 Accounting I-Financial .....	3
ECON 2123 Microeconomic Principles .....	3
FOURTH SEMESTER .....	16
Humanities Elective .....	3
Science Elective (Biological or Physical) .....	4
ACCT 2203 Accounting II-Managerial .....	3
ECON 2113 Macroeconomic Principles .....	3
MATH 2023 Elementary Statistics .....	3

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

The Associate in Science degree in Business Administration consists of 62 credit hours designed to provide the student with the first two years of general requirements for transfer to a four-year institution. The suggested curriculum is outlined to the left. Alternate courses and electives should be selected carefully only after the student and the major faculty graduation adviser have consulted the catalog of the selected transfer college.

The Business Division is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Outstanding Business students are invited to join Kappa Beta Delta, the business honor society recognized by ACBSP.

**Career Opportunities**

- Accounting
- Business Administrator
- Finance
- Management

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Business Administration - International Business Option**

**PROGRAM REQUIREMENT**

	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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra* .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Foreign Language Course .....	4-5
(This foreign language course may also be applied to the foreign language requirement listed below.)	
PROGRAM REQUIREMENT .....	15
ACCT 2103 Accounting I-Financial .....	3
ACCT 2203 Accounting II-Managerial .....	3
CS 2123 Business Tech & Applications .....	3
ECON 2113 Macroeconomic Principles .....	3
ECON 2123 Microeconomic Principles .....	3
REQUIREMENT IN FOREIGN LANGUAGE .....	15
This foreign language course requirement is to be determined by the student and graduation adviser. (Four hours of the coursework within this foreign language requirement may also be applied to the required four hours of General Education Electives listed above.)	
TOTAL CREDIT HOURS.....	63
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	65

\* Students scoring 26 or above on the math subsection of the ACT do not have to take MATH 1513 College Algebra and may take MATH 2023 Elementary Statistics or MATH 2103 Elementary Calculus.

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	16-17
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra .....	3
Foreign Language Elective* .....	4-5
SECOND SEMESTER .....	16-17
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
ACCT 2103 Accounting I-Financial .....	3
CS 2123 Business Tech & Applications .....	3
Foreign Language Elective* .....	4-5
THIRD SEMESTER .....	17-18
Science Elective (Biological or Physical) .....	4
Humanities Elective .....	3
ACCT 2203 Accounting II-Managerial .....	3
ECON 2113 Macroeconomic Principles .....	3
Foreign Language Elective* .....	4-5
FOURTH SEMESTER.....	13-17
Humanities Elective .....	3
Science Elective (Biological or Physical) .....	4
ECON 2123 Microeconomic Principles .....	3
POLI 1113 American Government .....	3
Foreign Language Elective* .....	0-4

\* Concerning the foreign language requirement for this degree program, a student has the option of completing four courses of four credit hours each totaling 16 hours, or three courses of five credit hours each totaling 15 hours.

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

The Associate in Science degree program in Business Administration with an International Option prepares students to transfer to a four-year university to pursue the Bachelor's degree in Foreign Language or Business Administration. The degree recipient will also be able to pursue a career/degree path in International Business.

The Business Division is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Outstanding Business students are invited to join Kappa Beta Delta, the business honor society recognized by ACBSP.

**Career Opportunities**

- Accounting
- Business Administrator
- Finance
- Management
- International Business

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Business Administration - Management Information Systems (MIS) Option**

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra* .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
The completion of the 27 hours of Program Requirements below enables a student to fulfill this four hour General Education Elective requirement.	
PROGRAM REQUIREMENTS.....	27
ACCT 2103 Accounting I-Financial .....	3
ACCT 2203 Accounting II-Managerial.....	3
CS 1013 Visual Basic Programming .....	3
CS 2123 Bus. Tech. & Applications .....	3
CS 2303 Java Programming.....	3
ECON 2113 Macroeconomic Principles .....	3
ECON 2123 Microeconomic Principles.....	3
MATH 2023 Elementary Statistics.....	3
MATH 2103 Elementary Calculus (or)	
MATH 2145 Calculus I.....	3-5
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

\*Students scoring 26 or above on the math subsection of the ACT do not have to take MATH 1513 College Algebra and may take MATH 2023 Elementary Statistics or MATH 2103 Elementary Calculus.

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra .....	3
Humanities Elective .....	3
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
MATH Calculus elective .....	3
CS 2123 Bus. Tech. & Applications .....	3
Science Elective (Biological or Physical) .....	4
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
Science Elective (Biological or Physical) .....	4
ACCT 2103 Accounting I-Financial .....	3
CS 1013 Visual Basic Programming .....	3
ECON 2123 Microeconomic Principles .....	3
FOURTH SEMESTER.....	15
Humanities Elective .....	3
CS 2303 Java Programming .....	3
MATH 2023 Elementary Statistics .....	3
ACCT 2203 Accounting II-Managerial .....	3
ECON 2113 Macroeconomic Principles .....	3

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

The Associate in Science degree in Business Administration with a Management Information Systems Option consists of 62 credit hours designed to provide the student with the first two years of general requirements for transfer to a four-year institution. Alternate courses and electives should be selected carefully only after the student and the graduation adviser have consulted the catalog of the selected transfer college.

The Business Division is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Outstanding Business students are invited to join Kappa Beta Delta, the business honor society recognized by ACBSP.

**Career Opportunities**

- Business Information Systems Analyst
- Information Systems Specialist

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Computer Science, Pre-Professional**

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra (or higher)	
MATH 1613 Plane Trigonometry .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
SPCH 1713 Intro to Oral Communication ....	3
The remaining one credit hour needed to fulfill this requirement may be counted from the Recommended Program Electives below.	

PROGRAM REQUIREMENTS.....	18-20
ACCT 2103 Accounting I-Financial .....	3
CS 1013 Visual Basic Programming .....	3
ECON 2123 Microeconomic Principles (or)	
ECON 2113 Macroeconomic Principles ...	3
MATH 2103 Elementary Calculus (or)	
MATH 2145 Calculus I (or)	
MATH 2023 Elementary Statistics .....	3-5
CS 2313 Programming with C++ .....	3
CS 2303 Java Programming.....	3

RECOMMENDED PROGRAM ELECTIVES.5-6	
ACCT 2203 Accounting II-Managerial .....	3
CS 2123 Bus. Tech. & Applications .....	3
ECON 2123 Microeconomic Principles (or)	
ECON 2113 Macroeconomic Principles ...	3
MATH 2023 Elementary Statistics .....	3
MATH 2155 Calculus II .....	5

TOTAL CREDIT HOURS..... 60

PHYS EDUCATION ACTIVITY COURSES .... 2

TOTAL CREDIT HOURS..... 62

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
MATH 1513 College Algebra (or)	
MATH 1613 Plane Trigonometry .....	3
CS 1013 Visual Basic .....	3

SECOND SEMESTER .....	11-17
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
MATH 2103 Elementary Calculus (or)	
MATH 2145 Calculus I (or)	
MATH 2023 Elementary Statistics .....	3-5
ECON 2123 Microeconomic Principles .....	3
Programming Language Requirement .....	3

THIRD SEMESTER .....	15
POLI 1113 American Government .....	3
Science Elective (Biological or Physical) .....	4
Humanities Elective .....	3
HPEA Activity Electives .....	2
ACCT 2103 Accounting I-Financial .....	3

FOURTH SEMESTER.....	16
Humanities Elective .....	3
Science Elective (Biological or Physical) .....	4
CS 2303 Java Programming.....	3
Recommended Program Electives.....	6

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

The Associate in Science degree in Computer Science is designed to provide the basic requirements for the first two years of the Bachelor's degree in the area of computer science or information systems.

The Business Division is accredited by the Association of Collegiate Business Schools and Programs (ACBSP). Outstanding Business students are invited to join Kappa Beta Delta, the business honor society recognized by ACBSP.

**Career Opportunities**

- Programmer
- Systems Analyst

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Engineering, Pre-Professional

### 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
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 .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
GEOG 2253 World Regional Geography .....	3
(Fulfills an international dimension requirement)	
The remaining one credit hour needed to fulfill	
this requirement may be counted from the	
Recommended Program Electives below.	
PROGRAM REQUIREMENTS.....	20
ENGR 2111 Engineering Mechanics I.....	1
ENGR 2113 Statics .....	3
MATH 1613 Plane Trigonometry** .....	3
MATH 2145 Calculus I .....	5
MATH 2155 Calculus II .....	5
PHYS 2014 Engineering Physics I .....	4
PHYS 2114 Engineering Physics II .....	4
RECOMMENDED PROGRAM ELECTIVES.3-4	
CHEM 1414 General Chemistry II .....	4
CS 2313 Programming with C++ .....	3
ENGR 2121 Engineering Mechanics II .....	1
ENGR 2123 Dynamics .....	3
MATH 2613 Differential Equations .....	3
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

\* 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.

### SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra (Pre-Calculus) ..	3
MATH 1613 Plane Trig (Pre-Calculus) .....	3
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
MATH 2145 Calculus I .....	5
PHYS 2014 Engineering Physics I .....	4
CHEM 1314 General Chemistry I .....	4
THIRD SEMESTER .....	16
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ..	3
ENGR 2111 Engineering Mechanics I .....	1
ENGR 2113 Statics .....	3
MATH 2155 Calculus II .....	5
PHYS 2114 Engineering Physics II .....	4
FOURTH SEMESTER.....	15
POLI 1113 American Government .....	3
General Education Electives .....	4
Program Requirement Elective.....	3
Humanities Elective .....	3
Humanities Elective .....	3

Students need to consult with the engineering school of interest for Chemistry and Biology requirements.

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

The Associate in Science degree in Pre-Engineering is designed to transfer into all disciplines of engineering. It is important to secure a catalog from the engineering school for transfer so you may select the courses to meet the requirements needed to obtain the Bachelor's degree you choose.

The program features small class size and individual attention for this challenging degree.

### Career Opportunities

Architect/Designer  
 Chemical Engineer  
 Civil Engineer  
 Electrical Engineer  
 Mechanical Engineer  
 Metallurgical Engineer  
 Petroleum Engineer

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Mathematics

### 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	16
MATH 1613 Plane Trigonometry.....	3
MATH 2145 Calculus I .....	5
MATH 2155 Calculus II .....	5
MATH 2613 Differential Equations .....	3
RECOMMENDED PROGRAM ELECTIVES ...	7
Select courses from: Computer Science, Physics and Statistics. Other courses may be substituted with approval.	
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

\* 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.

### SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra (Pre-Calculus) ..	3
MATH 1613 Plane Trig. (Pre-Calculus) .....	3
SECOND SEMESTER .....	15
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ..	3
MATH 2145 Calculus I .....	5
Science Elective (Biological or Physical) ..	4
THIRD SEMESTER .....	15
POLI 1113 American Government .....	3
Science Elective (Biological or Physical) ..	4
Humanities Elective .....	3
MATH 2155 Calculus II .....	5
FOURTH SEMESTER.....	17
MATH 2613 Differential Equations .....	3
Humanities Elective .....	3
Program Electives .....	7
General Education Electives .....	4

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

The Associate in Science degree in Mathematics 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

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 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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Medicine, Pre-Professional

### 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1114 General Biology .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	20
BISI 2124 Microbiology .....	4
BISI 2214 Human Anatomy & Physiology...	4
CHEM 1414 General Chemistry II .....	4
PHYS 1114 General Physics I .....	4
PHYS 1214 General Physics II .....	4
Substitutions may be made with prior approval.	
RECOMMENDED PROGRAM ELECTIVES...	3
GEOG 2253 World Regional Geography ...	3
SOC1 1113 General Sociology .....	3
SPCH 1713 Intro to Oral Communication ...	3
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

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

### SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
CHEM 1314 General Chemistry I .....	4
MATH 1513 College Algebra .....	3
SECOND SEMESTER .....	14
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
BISI 1114 General Biology .....	4
CHEM 1414 General Chemistry II .....	4
THIRD SEMESTER .....	14
POLI 1113 American Government .....	3
Humanities Elective .....	3
BISI 2214 Human Anatomy & Physiology .....	4
PHYS 1114 General Physics I .....	4
FOURTH SEMESTER.....	18
Humanities Elective .....	3
General Education Electives .....	4
BISI 2124 Microbiology .....	4
PHYS 1214 General Physics II .....	4
Recommended Program Electives .....	3

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

The Associate in Science degree in Medicine is designed for the student whose goal is to be a medical doctor. Students wishing to go into a different medical field such as physical therapy should consult a graduation adviser in pre-medicine about specific requirements.

Students 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

Chiropractor  
Dental Hygiene  
Doctor  
Funeral Science  
Med-Tech  
Nutrition  
Occupational Therapist  
Optometry  
Osteopathic Medical  
Research  
Physical Therapist  
Radiology  
Respiratory Therapy  
Wellness

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

### Nursing, Pre-Baccalaureate, Pre-Professional

## 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1114 General Biology .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	14
BISI 2104 Human Anatomy .....	4
BISI 2124 Microbiology.....	4
PSYC 1113 General Psychology .....	3
SOCI 1113 Principles of Sociology .....	3
Substitutions may be made with prior approval.	
RECOMMENDED PROGRAM ELECTIVES ...	9
NUTR 2123 Intro to Human Nutrition .....	3
LIT 2413 Intro to Literature .....	3
PHIL 2213 Ethics .....	3
MATH 2023 Elementary Statistics .....	3
BISI 2204 Human Physiology .....	4
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

## SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
CHEM 1314 General Chemistry I .....	4
MATH 1513 College Algebra .....	3
SECOND SEMESTER .....	16
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
BISI 1114 General Biology .....	4
PSYC 1113 General Psychology .....	3
Recommended Program Elective .....	3
THIRD SEMESTER .....	16
POLI 1113 American Government .....	3
Humanities Elective .....	3
BISI 2124 Microbiology .....	4
SOCI 1113 Principles of Sociology .....	3
Recommended Program Elective .....	3
FOURTH SEMESTER.....	14
Humanities Elective .....	3
Elective .....	4
BISI 2104 Human Anatomy .....	4
Recommended Program Elective .....	3

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

This Associate in Science degree program prepares students to transfer to a four-year university to pursue the Bachelor's degree in Nursing.

Graduates of this program may not be able to transfer directly to a junior year Bachelor's program in Nursing. Students 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

Nursing

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

### Pharmacy, Pre-Professional

## 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1114 General Biology .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	19
BISI 1414 General Zoology .....	4
BISI 2124 Microbiology .....	4
CHEM 1414 General Chemistry II.....	4
MATH 1613 Plane Trigonometry .....	3
PHYS 1114 General Physics I.....	4
Substitutions may be made with prior approval.	
RECOMMENDED PROGRAM ELECTIVES... ..	4
ECON 2113 Macroeconomic Principles .....	3
HPET 2212 First Aid .....	2
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

## SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
CHEM 1314 General Chemistry I .....	4
MATH 1513 College Algebra .....	3
SECOND SEMESTER .....	17
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
BISI 1114 General Biology .....	4
CHEM 1414 General Chemistry II .....	4
MATH 1613 Plane Trigonometry .....	3
THIRD SEMESTER .....	14
POLI 1113 American Government .....	3
Humanities Elective .....	3
BISI 1414 General Zoology .....	4
PHYS 1114 General Physics I .....	4
FOURTH SEMESTER.....	15
General Education Elective .....	4
Humanities Elective .....	3
BISI 2124 Microbiology .....	4
Recommended Program Electives .....	4

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

This Associate in Science degree program prepares students to transfer to a four-year university to pursue the Bachelor's degree in Pharmacy.

Students 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

Pharmaceutical Research  
Pharmacy

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

## Health, Physical Education, and Recreation

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives.....	6
MATHEMATICS	
MATH 1493 Math Applications(or)	
MATH 1513 College Algebra .....	3
SCIENCE	
One Biological Science with Lab .....	4
One Physical Science with Lab .....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	20
HPET 1113 Nutrition .....	3
HPET 1132 Sports Officiating I (or)	
HPET 1142 Sports Officiating II .....	2
HPET 2053 Introduction to Coaching .....	3
HPET 1223 Health Ed. and Wellness .....	3
HPET 1950 Physical Ed. Field Exp .....	1
HPET 1953 Introduction to HPE&R.....	3
HPET 2212 First Aid .....	2
HPET 2633 Care and Prevention of Athletic Injuries .....	3
Substitutions may be made with prior approval.	
RECOMMENDED PROGRAM ELECTIVES...	3
BISI 2214 Human Anatomy and Physiology 4	
BISI 2104 Human Anatomy .....	4
PSYC 1113 General Psychology .....	3
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPET 1132 Sports Officiating I (or)	
HPET 1142 Sports Officiating II .....	2
HPET 1952 Introduction to HPE&R .....	2
HPET 2212 First Aid .....	2
HPEA Activity Electives .....	2
SECOND SEMESTER .....	15
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
MATH 1493 Math Applications(or)	
MATH 1513 College Algebra .....	3
HPET 1223 Health Ed. and Wellness .....	3
HPET 1113 Nutrition .....	3
THIRD SEMESTER .....	17
General Education Electives .....	3
POLI 1113 American Government .....	3
Science Elective (Biological or Physical) .....	4
Humanities Elective .....	3
HPET 1950 Physical Ed. Field Experience ....	1
HPET 2053 Introduction to Coaching .....	3
FOURTH SEMESTER.....	15
General Education Electives .....	1
Science Elective (Biological or Physical) .....	4
Humanities Elective .....	3
HPET 2633 Care & Prevention of Ath Injuries .	3
Recommended Program Elective .....	4

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

The Associate in Science degree in Health, Physical Education, and Recreation 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 carefully select courses that will meet requirements to complete their Bachelor's degree.

**Career Opportunities**

- Coach
- Personal Trainer
- Physical Education Instructor

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

**Health, Physical Education, and Recreation - Athletic Training Option**

**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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives.....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1114 General Biology .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	23
BISI 1414 General Zoology .....	4
BISI 2104 Human Anatomy .....	4
HPET 1113 Nutrition .....	3
HPET 1223 Health Ed. and Wellness.....	3
HPET 2212 First Aid .....	2
HPET 2382 Athletic Training-Practicum I ...	2
HPET 2482 Athletic Training-Practicum II ..	2
HPET 2633 Care and Prevention of Athletic Injuries .....	3
The first year will involve 75 to 85 hours of observation. The second year will involve 500 hours of clinical work.	
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

**SUGGESTED COURSE SEQUENCE**

	Credit Hours
FIRST SEMESTER .....	14
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPET 2212 First Aid .....	2
MATH 1513 College Algebra .....	3
HPEA Activity Electives .....	2
SECOND SEMESTER .....	17
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ....	3
BISI 1114 General Biology .....	4
CHEM 1314 General Chemistry I .....	4
HPET 2633 Care & Prevention of Ath Injuries	3
THIRD SEMESTER .....	15
POLI 1113 American Government .....	3
Humanities Elective .....	3
BISI 2104 Human Anatomy .....	4
HPET 1113 Nutrition .....	3
HPET 2382 Athletic Training-Practicum I .....	2
FOURTH SEMESTER.....	16
General Education Electives .....	4
Humanities Elective .....	3
BISI 1414 General Zoology .....	4
HPET 1223 Health Ed. and Wellness .....	3
HPET 2482 Athletic Training-Practicum II .....	2

This is a suggested sequence timeline only. A student may require more than four semesters to complete this Associate in Science 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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

The Associate in Science degree in Athletic Training is designed to prepare students adequately for the athletic training programs offered at four-year institutions.

Under the supervision of a licensed physician, the athletic trainer serves an important role in the health care system of recognizing, preventing, evaluating, managing, and rehabilitating sports injuries.

Athletic Training is recognized by the American Medical Association as an allied health care profession. Specifically, the Athletic Trainer specializes in five practice areas: Prevention of athletic injuries; Recognition, evaluation and immediate care of athletic injuries; Rehabilitation and reconditioning of athletic injuries; Health care administration; Education and counseling.

Students who desire to become candidates in Athletic Training are required to make a formal application to the Athletic Training department for admission to the program. This application must be submitted on or before April 15<sup>th</sup> and formal approval is required. GPA and ACT composite scores are weighed heavily as acceptance is highly competitive.

**Career Opportunities**

- Athletic Trainer
- Physical Therapist
- Strength & Conditioning

## Science - Biology/Zoology

### 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1314 General Botany .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
Select courses from: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral or Social Sciences	
PROGRAM REQUIREMENTS.....	16
BISI 1414 General Zoology .....	4
CHEM 1414 General Chemistry II.....	4
PHYS 1114 General Physics I .....	4
PHYS 1214 General Physics II .....	4
Substitutions may be made with prior approval.	
RECOMMENDED PROGRAM ELECTIVES ...	7
BISI 1214 Environmental Science .....	4
BISI 2124 Microbiology .....	4
BISI 2024 Entomology .....	4
BISI 2324 Comp Vertebrate Anatomy .....	4
BISI 2403 Intro to Wildlife Conservation .....	3
MATH 1613 Plane Trigonometry .....	3
MATH 2023 Elementary Statistics .....	3
TOTAL CREDIT HOURS.....	60
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	62

### SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	16
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
CHEM 1314 General Chemistry I .....	4
MATH 1513 College Algebra .....	3
SECOND SEMESTER .....	14
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 .....	3
BISI 1314 General Botany .....	4
CHEM 1414 General Chemistry II .....	4
THIRD SEMESTER .....	17
POLI 1113 American Government .....	3
Humanities Elective .....	3
BISI 1414 General Zoology .....	4
PHYS 1114 General Physics I .....	4
General Education Electives .....	3
FOURTH SEMESTER.....	15
General Education Electives .....	1
Humanities Elective .....	3
PHYS 1214 General Physics II .....	4
Recommended Program Electives .....	7

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

The Associate in Science degree program in Biology/Zoology prepares students to transfer to a four-year university to pursue a Bachelor's degree or entry into the field of life science.

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

Animal/Plant Production  
Dental Assistant  
Farming  
Horticulture  
Laboratory Assistant  
Sales  
Veterinarian Assistant  
Wildlife Production

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 seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science

### Science - Chemistry/Physics

## 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 1865 (or)	
HIST 1493 Am. History Since 1865 .....	3
POLI 1113 American Government .....	3
HUMANITIES	
Electives .....	6
MATHEMATICS	
MATH 1513 College Algebra .....	3
SCIENCE	
BISI 1114 General Biology (or)	
BISI 1414 General Zoology .....	4
CHEM 1314 General Chemistry I.....	4
COMPUTER SCIENCE	
CS 1113 Computer Concepts .....	3
ORIENTATION	
ORNT 1101 Freshman Orientation .....	1
GENERAL EDUCATION ELECTIVES.....	4
MATH 1613 Plane Trig. (Pre-Calculus) ...	3
Select courses from: Language Arts,	
Natural Sciences, Foreign Languages,	
Fine Arts, Humanities, Mathematics,	
Behavioral or Social Sciences	
PROGRAM REQUIREMENTS .....	22
CHEM 1414 General Chemistry II .....	4
PHYS 2014 Engineering Physics I .....	4
PHYS 2114 Engineering Physics II .....	4
MATH 2145 Calculus I .....	5
MATH 2155 Calculus II .....	5
RECOMMENDED PROGRAM ELECTIVES ...	3
MATH 2613 Differential Equations .....	3
TOTAL CREDIT HOURS.....	62
PHYS EDUCATION ACTIVITY COURSES ....	2
TOTAL CREDIT HOURS.....	64

## SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER .....	15
ENGL 1113 English Composition I .....	3
CS 1113 Computer Concepts .....	3
ORNT 1101 Freshman Orientation .....	1
HPEA Activity Electives .....	2
MATH 1513 College Algebra (Pre-Calculus) ..	3
MATH 1613 Plane Trig. (Pre-Calculus) .....	3
SECOND SEMESTER .....	15
ENGL 1213 English Composition II .....	3
HIST 1483 American History to 1865 (or)	
HIST 1493 American History Since 1865 ...	3
CHEM 1314 General Chemistry I .....	4
MATH 2145 Calculus I .....	5
THIRD SEMESTER .....	16
Humanities Elective .....	3
CHEM 1414 General Chemistry II .....	4
MATH 2155 Calculus II .....	5
PHYS 2014 Engineering Physics I.....	4
FOURTH SEMESTER.....	18
POLI 1113 American Government .....	3
MATH 2613 Differential Equations .....	3
Humanities Elective .....	3
BISI 1114 General Biology (or)	
BISI 1414 General Zoology .....	4
PHYS 2114 Engineering Physics II.....	4
General Education Electives .....	1

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

The Associate in Science degree program in Chemistry/Physics 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 COMPASS test scores. These tests are administered in the Testing Center at NOC. Based upon the scores, some or all of the following seven (7) 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 Basic Reading
- READ 1113 College Reading
- BSCI 0123 Intro to Basic Science