COMPUTER SCIENCE, PRE-PROFESSIONAL

(Note: Program requirements for this degree are offered on NOC Enid and NOC Tonkawa campus only.
At the beginning of each course listing, the four letter abbreviation indicates the department and the four digits indicate the course code used for enrollment. The total course hour value follows each.)

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

PHIL 2213 Ethics	3 hours
(or) PHIL 2223 Business Ethics	
One course to be chosen from those listed with the International Dimension.	3 hours

Mathematics Courses

MATH 1513 Algebra for STEM	3 hours
(or) MATH 1613 Plane Trigonometry	

(Note: Plane Trigonometry is strongly recommended because it must be taken as a pre-requisite before taking Calculus 1.)

Science Courses

Two Sciences with Lab	8 hours

Computer Science Courses

CS 1113 Computer Concepts	3 hours
(or) BSAD 1113 Digital/Financial Literacy	
(or other approved computer course)	

Orientation Courses

ORNT 1101 Freshman Orientation	1 hour
***General Education Elective Courses**	4 hours

Program Requirement Courses - 19 Total 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
(6) hours of programming language chosen from the following or other pre-approved substitutions: CS 1013 Visual Basic, CS 2203 Python, CS 2303 Java, CS 2313 Programming with C++	6 hours

Recommended Program Elective Courses - 5 Total Hours (Add to Gen Ed hours above to take two courses)

ACCT 2103 Accounting I-Financial	3 hours
(or) ACCT 2203 Accounting II-Managerial	
CS 2123 Business Tech & Applications	3 hours
MATH 2023 Elementary Statistics	3 hours

Total Credit Hours 61 hours

Suggested Course Sequence:

First Semester 16 Total Credit Hours

ENGL 1113 English Composition I	3 hours
MATH 1613 Plane Trigonometry (fast-track if needed for placement)	3 hours
ORNT 1101 Freshman Orientation	1 hour
POLI 1113 American Government	3 hours
CS 1113 Computer Concepts	3 hours
General Education/Program Elective (may be used for MATH 1513 if needed for placement)	3 hours

Second Semester 14 Total Credit Hours

ENGL 1213 English Composition II	3 hours
MATH 2144 Calculus I	4 hours
Computer Programming Language	3 hours
Science Elective	4 hours

Third Semester 17 Total Credit Hours

Science Elective	4 hours
MATH 2154 Calculus II	4 hours
ACCT 2103 Accounting I-Financial (or other Gen Ed/Program elective)	3 hours
Computer Programming Language	3 hours
PHIL 2213 Ethics (or) PHIL 2223 Business Ethics	3 hours

Fourth Semester 14 Total Credit Hours

HIST 1483 Amer. History to 1877 (or) HIST 1493 Amer. History Since 1877	3 hours
International Humanities Elective	3 hours
MATH 2164 Calculus III	4 hours
*Program/Gen Ed Electives	3 hours
PRDV 2321 Professional Development	1 hour

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

*Taking math class from recommended program electives can reduce hours here to graduate with 61 credits, or gen ed can be selected from courses in: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral Science, or Social Sciences.

**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 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 suggested curriculum is outlined to the left. Alternate courses and electives should be selected carefully only after the student and the major faculty academic advisor have consulted the catalog of the selected transfer college.

The Business Division and this degree program are accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

Outstanding Business students are invited to join Kappa Beta Delta, the business honor society recognized by ACBSP.

Career Opportunities

Programer
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 A.C.T. 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 by clicking on the following link: http://www.noc.edu/act for placement guidelines.