

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		SUGGESTED COURSE SEQUENCE	
GENERAL EDUCATION COURSES	Credit Hours 37 TOTAL HOURS	FIRST SEMESTER	16 TOTAL HOURS
ENGLISH COMPOSITION COURSES		ENGL 1113 English Composition I	3 hours
ENGL 1113 English Composition I	3 hours	MATH 1513 College Algebra (OR)	
ENGL 1213 English Composition II	3 hours	MATH 1613 Plane Trigonometry	3 hours
HISTORY AND GOVERNMENT COURSES		ORNT 1101 Freshman Orientation	1 hour
HIST 1483 American History to 1877		CS 2203 Python Programming	3 hours
(OR) HIST 1493 American History Since 1877	3 hours	POLI 1113 American Government	3 hours
POLI 1113 American Government	3 hours	Computer Science Elective	3 hours
HUMANITIES COURSES		SECOND SEMESTER	13-15 TOTAL HOURS
PHIL 2213 Ethics (OR)		ENGL 1213 English Composition II	3 hours
PHIL 2223 Business Ethics	3 hours	MATH 2103 Elementary Calculus (OR) MATH 2145 Calculus I (OR)	
One course to be chosen from those listed with the International Dimension.	3 hours	MATH 2023 Elementary Statistics	3-5 hours
MATHEMATICS COURSES		CS 2303 Java Programming	3 hours
MATH 1513 College Algebra (OR)		Science Elective	4 hours
MATH 1613 Plane Trigonometry	3 hours	THIRD SEMESTER	16 TOTAL HOURS
<i>(Note: Plane Trigonometry is strongly recommended because it must be taken as a pre-requisite before taking Calculus I.)</i>		Science Elective (Biological or Physical)	4 hours
SCIENCE COURSES		CS 2313 Programming with C++	3 hours
Two Sciences with Lab	8 hours	ACCT 2103 Accounting I-Financial	3 hours
COMPUTER SCIENCE COURSES		ECON 2123 Macroeconomics (or Microeconomic Principles)	3 hours
CS 1113 Computer Concepts (OR)		Program/Gen Ed Elective	3 hours
BSAD 1113 Digital/Financial Literacy (or other approved computer course)	3 hours	FOURTH SEMESTER	16 TOTAL HOURS
ORIENTATION COURSES		CS 1013 Visual Basic Programming	3 hours
ORNT 1101 Freshman Orientation	1 hour	HIST 1483 American History to 1877 (OR) HIST 1493 American History Since 1877	3 hours
GENERAL EDUCATION ELECTIVE COURSES	4 hours	PHIL 2213 Ethics (OR)	
1 hour can be combined with requirement for recommended electives below, or selected from courses in: Language Arts, Natural Sciences, Foreign Languages, Fine Arts, Humanities, Mathematics, Behavioral Science, or Social Sciences.		PHIL 2223 Business Ethics	3 hours
PROGRAM REQUIREMENT COURSES	22-24 TOTAL HOURS	International Humanities Elective	3 hours
ACCT 2103 Accounting I-Financial	3 hours	*Program/Gen Ed Electives	3 hours
**CS 1013 Visual Basic Programming	3 hours	PRDV 2321 Professional Development	1 hour
**CS 2203 Python Programming	3 hours		
**CS 2303 Java Programming	3 hours		
**CS 2313 Programming with C++	3 hours		
ECON 2113 Macroeconomic Principles (OR)			
ECON 2123 Microeconomic Principles	3 hours		
MATH 2023 Elementary Statistics (OR)	3-5 hours		
**MATH 2103 Elementary Calculus (OR)			
**MATH 2145 Calculus I			
PRDV 2321 Professional Development	1 hour		
<i>Programing Language substitutions may be made with prior approval.</i>			
RECOMMENDED PROGRAM ELECTIVE COURSES	3 TOTAL HOURS		
ACCT 2203 Accounting II-Managerial	3 hours		
CS 2123 Business Tech & Applications	3 hours		
ECON 2113 Macroeconomic Principles (OR)	3 hours		
ECON 2123 Microeconomic Principles			
MATH 2023 Elementary Statistics	3 hours		
**MATH 2155 Calculus II	5 hours		
TOTAL CREDIT HOURS	61-63		

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 of 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 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: ACT | Northern Oklahoma College (<http://www.noc.edu/act>) for placement guidelines.