Computer Science, Pre- Professional
Associate in Science Degree
Division of Engineering, Physical Science and PTEC

Life changing.

This degree is offered on NOC Enid and NOC Tonkawa campuses.

Program Requirements 61 Total Credit Hours

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	American History to 1877	3 hours
or	HIST	1493	American 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 I)				
Science Courses				
	Two Sciences with labs			8 hours
Computer Science Courses				
	BADM	1113	Digital/Financial Literacy	3 hours
or	CMSC	1113	Computer Concepts	
or	Other approved computer course			
Orientation Course				
	ORNT	1101	Freshman Orientation	1 hour
*General Education Elective Courses				3-4 hrs

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.

Program Requirement Courses				19 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:				6 hours
CMSC 1013 Visual Basic, CMSC 2203 Python, CMSC 2303 Java, CMSC 2313 Programming with C++				

Recommended Program Elective Courses				5-6 hrs
(Add 1-hr of Gen. Ed Elective hrs to above to take 2-courses)				
	ACCT	2103	Accounting I - Financial	3 hours
or	ACCT	2203	Accounting II - Managerial	
	CMSC	2123	Business Tech & Application	3 hours
	MATH	2023	Elementary Statistics	3 hours
*	DATA	1113	Intro To Data Analytics	3 hours
*	DATA	1123	Applied Data Analytics	3 hours
*	DATA	2113	Database Mgmt. & Design	3 hours
*	DATA	2123	Data Visualization	3 hours

*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 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

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This suggested curriculum includes degree requirements and courses that are usually completed in the first two years of a four-year curriculum. Consult with the university or college of your choice and its catalog curriculum as you make plans on where to transfer. Be careful to select the courses that will meet all requirements for both the Associate and Baccalaureate degree programs.

Year One

Fall Semester			Spring Semester		
ENGL	1113	English Composition I	ENGL	1213	English Composition II
MATH	1613	Plane Trigonometry	*MATH	2144	Calculus I
ORNT	1101	Freshman Orientation		3 hours	Computer Programming Language
POLI	1113	American Government		4 hours	Science Elective
CMSC	1113	Computer Concepts		(PHYS 2014 Engineering Physics I, recommended)	
	3 hours	General Ed/Program Elective			
	(may be used for MATH 1513 if needed for placement)				
Total: 16 credit hours			Total 14 credit hours		

Year Two

Fall Semester			Spring Semester		
	4 hours	Science Elective	HIST	1483	American History to 1877
*MATH	2154	Calculus II	or		
ACCT	2103	Accounting I - Financial	HIST	1493	American History Since 1877
or	Other Gen Ed/ Program Elective)			3 hours	International Humanities Elective
	3 hours	Computer Programming Language	*MATH	2164	Calculus III
PHIL	2213	Ethics		3 hours	Program/Gen Ed Elective
or			PRDV	2321	Professional Development
PHIL	2223	Business Ethics			
Total 17 credit hours			Total 14 credit hours		

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

NOC evaluates students for placement into supplemental/college-level courses or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined by A.C.T. test scores, corresponding A.C.T. challenge tests, holistic placement, or other college approved placement tests. These tests are administered in the Testing Center at NOC. Based upon the scores, students may be required to take one or more supplemental courses for English, Math, Social Science or Nursing. See the NOC testing web page by clicking on the following link: http://www.noc.edu/act for placement guidelines.