

Associate in Science Degree
Northern Oklahoma College
Division of Business

Bachelor of Science Degree
Northwestern Oklahoma State University
School of Arts and Sciences

Computer Science, Pre-Professional

Computer Science: Information System Option

The Associate in Science degree program in Computer Science consists of 60 hours designed to provide the student with the first two years of general education and program requirements for transfer seamlessly to the Bachelor of Science degree in Computer Science at Northwestern Oklahoma State University.

Transfer students who have completed an Associate in Science degree in Computer Science from Northern Oklahoma College will have met the NWOSU General Education Requirements.

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 American History since 1865 -----	3 _____
POLI 1113 American National Government -----	3 _____
HUMANITIES	
PHIL 2213 Ethics (or) -----	3 _____
PHIL 2223 Business Ethics and	
one course to be chosen from those listed with	
International Dimension -----	3 _____
MATHEMATICS	
MATH 1513 College Algebra or higher -----	3 _____
SCIENCE	
Two sciences with lab -----	8 _____
COMPUTER SCIENCE	
CS 1113 Computer Concepts -----	3 _____
ORIENTATION	
ORNT 1101 Freshman Orientation -----	1 _____
GENERAL EDUCATION ELECTIVES	
SPCH 1713 Intro to Oral Communication -----	3 _____
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 Business 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

PROGRAM REQUIREMENTS

Credit Hours

MAJOR REQUIREMENTS -----	45
CMSC 2003 Programming Concepts -----	3 _____
CMSC 2103 Computer Programming I -----	3 _____
CMSC 3003 Data Management Systems -----	3 _____
CMSC 3093 Telecommunications -----	3 _____
Choose 2 of 4: -----	6 _____
CMSC 3033 Object-Orientated Programming in Java	
CMSC 3043 Intro to COBOL	
CMSC 3053 Visual Basic Programming	
CMSC 3063 Python Programming	
CMSC 3203 Computer Programming II -----	3 _____
CMSC 3313 Human Interface Design -----	3 _____
CMSC 4013 Systems Analysis & Design -----	3 _____
*ACCT2123 Financial Accounting -----	3 _____
*ACCT 2133 Managerial Accounting -----	3 _____
ACCT 3153 Cost Accounting I -----	3 _____
Advanced Electives in Computer Science -----	9 _____

*Students who complete these courses at NOC are not required to repeat them at NWOSU.