

**Requirements for the Associate in Science Degree**  
**Computer Information Systems – Software Development**  
**Division of Business**

Eastern Oklahoma State College

Student Name:	Date:
Academic Advisor:	
Minimum Total Hours .....	65-67
Minimum Grade Point Average.....	2.00

<b>General Education Requirements..... 41</b>		
<b>Orientation ..... 1</b>	Semester	Course Substitution
OLS 1111 Orientation		
<b>Behavioral and Social Sciences ..... 9</b>	Semester	Course Substitution
POLSC 1113 American Federal Government		
<i>Take <b>One</b> of the following courses:</i>		
HIST 1483 American History to 1877		
HIST 1493 American History since 1877		
<i>Take <b>One</b> of the following courses:</i>		
PSY 1113 Introduction to Psychology		
SOC 1113 Introduction to Sociology		
ECON 2113 Introduction to Macroeconomics		
ECON 2123 Intro to Microeconomics		
<b>Mathematics ..... 3</b>	Semester	Course Substitution
<i>Take <b>One</b> of the following courses:</i>		
MATH 1503 Survey of Mathematics		
MATH 1513 College Algebra		
MATH 2233 Elementary Algebra		
<b>Natural Sciences..... 7-9</b>	Semester	Course Substitution
<i>Life Science: Take <b>One</b> of the following courses:</i>		
BIOL 1114 General Biology		
BOT 1114 General Botany		
BIOL 2103 Environmental Science I		
ZOO 1114 General Zoology		
<i>Physical Science: Take <b>One</b> of the following courses:</i>		
CHEM 1315 General College Chemistry I		
CHEM 1415 General College Chemistry II		
PHYSC 1114 Physical Science		
PHYSC 1124 Elementary Astronomy		
PHYSC 1214 Earth Science		

PHY 1114 General Physics I		
<b>Communications ..... 12</b>	Semester	Course Substitution
ENGL 1113 Freshman Composition I		
ENGL 1213 Freshman Composition II		
CIS 1113 Computer Applications		
<i>Take <b>One</b> of the following courses:</i>		
SPCH 1113 Fundamentals of Speech		
SPCH 2233 Business and Professional Speaking		
<b>Humanities ..... 6</b>	Semester	Course Substitution
<i>Take <b>One</b> of the following courses:</i> HUMAN 1133, HUMAN 1143, HUMAN 1153, HUMAN 1163, HUMAN 2103, HUMAN 2113, HUMAN 2213, HUMAN 2223, HUMAN 2233, HUMAN 2243, HUMAN 2513, HUMAN 2993		
<i><b>And Take One Additional Course</b> from the following courses or from the list above:</i> HIST 2413, HIST 2423, ENGL 2413, ENGL 2433, ENGL 2443, ENGL 2543, ENGL 2653, ENGL 2773, ENGL 2883, RELED 2103, RELED 2203		
<b>General Education Elective .....1-3</b> <i>**If needed to complete minimum General Education requirements.</i>	Semester	Course Substitution
<i>Select from the following courses:</i>		
HIST 1103 History of Oklahoma		
HIST 2723 History of the American Indian		
MCOMM 1113 Introduction to Mass Communications		
HPER 1113 Health Concepts		
HPER 2102 First Aid		
HPER 1102 School and Community Health		
Other PSY courses (PSY 1113 is pre-requisite)		
Other SOC courses (SOC 1113 is pre-requisite)		
Other MATH courses (MATH 1513 is pre-requisite)		
Any Foreign Language or American Sign Language course		

<b>Program Requirements ..... 24</b>		
<b>Common Core .....12</b>	Semester	Course Substitution
CIS 1223 Computer Logic & Algorithms		
CIS 2223 Programming in C++		
CIS 2233 Adv Programming in C++		
CIS 2323 Programming in JAVA		
<b>Software Dev Major Field.....14</b>	Semester	Course Substitution
MATH 1613 Trigonometry		
MATH 2235 Calculus I		
MATH 2013 Introduction to Discrete Mathematics		
CIS 1233 Introduction to UNIX		