

**CIS/Programming**

Associate in Applied Science

**Computer Information Systems**

Advisor: Dr. Carol Buse Email: acbuse@actx.edu

---

The CIS curriculum provides several program concentrations that prepare an individual for today's business computer industry opportunities. This program prepares an individual for entry-level position in the area of Computer Programming.

---

**MAJOR CODE: COSC.AAS (Programming)**

COURSE NUMBERS		COURSE NAMES		HOURS	
<b>GENERAL EDUCATION REQUIREMENTS</b>					<b>15</b>
<b>Communication – 3 Hours</b>					
ENGL 1301:	Composition I		3		
<b>Social/Behavioral Sciences – 3 Hours</b>					
BCIS 1305:	Business Computer Applications		3		
<b>Institutional Requirement – 3 Hours</b>					
	Speech*		3		
<b>Language, Philosophy &amp; Culture/Creative Arts – 3 Hours</b>					
Language, Philosophy and Culture** or Creative Arts***				3	
<b>Mathematics/Natural Sciences – 3 Hours</b>					
MATH 1324:	Math for Business & Social Sciences		3		
	or				
MATH 1314:	College Algebra		3		
<b>MAJOR COURSE REQUIREMENTS</b>					<b>30</b>
ITSC 2335:	Application Software Problem Solving		3		
COSC 1315:	Introduction to Computer Programming		3		
COSC 1320:	C Programming		3		
CPMT 1351:	IT Essentials: PC Hardware and Software		3		
INEW 2334:	Advanced Web Programming		3		
ITSC 1307:	Unix Operating System I		3		
ITSE 1311:	Beginning Web Page Programming		3		
ITSE 2309:	Database Programming		3		
ITSE 2347:	Advanced Database Programming		3		
ITSY 1342:	Information Technology Security		3		
<b>MAJOR ELECTIVE REQUIREMENTS</b>					<b>3</b>
CIS Elective:	CIS Elective		3		
<b>MAJOR OPTIONS</b>					<b>12</b>
COSC 1336:	Programming Fundamentals I		3		
COSC 1337:	Programming Fundamentals II		3		
COSC 2336:	Programming Fundamentals III		3		
ITSE 1391:	Special Topics in Computer Programming		3		
<b>TOTAL HOURS</b>				<b>60</b>	

\*Speech credit must come from Amarillo College approved list found at:

[http://catalog.actx.edu/preview\\_program.php?catoid=13&poid=2446](http://catalog.actx.edu/preview_program.php?catoid=13&poid=2446)

\*\* Language, Philosophy &amp; Culture credit must come from Amarillo College approved list found at:

[http://catalog.actx.edu/preview\\_program.php?catoid=13&poid=2254](http://catalog.actx.edu/preview_program.php?catoid=13&poid=2254)

\*\*\* Creative Arts credit must come from Amarillo College approved list found at:

[http://catalog.actx.edu/preview\\_program.php?catoid=13&poid=2245](http://catalog.actx.edu/preview_program.php?catoid=13&poid=2245)