

2026–2027

Computer Information Systems (A.A.S.) - Software Development

Year 1

Course ID	Course	Cr	FALL	Pre/Co-Req
			Terms	
First 8-weeks				
EDUC 1100	First Year Seminar - Learning Framework	1	F1, F2, S1, S2	none
BCIS 1305	Business Computer Applications (MS Office)	3	F1, F2, S1, S2, SU	none
Second 8-weeks				
ITSC 1307	UNIX Operating System I (LPI)	3	F1, F2, S1, S2, SU	none
ITSE 2309	Database Programming (ERD, Access, SQL)	3	F2, S2	BCIS 1305
16-weeks				
ITSE 1311	Beginning Web Programming (HTML, JavaScript)	3	F, S, SU	none
ITSE 1329	Programming Logic & Design (Python)	3	F, S	none
Total 16				

CIS—Software Foundations Certificate

SPRING				
Course ID	Course	Cr	Terms	Pre/Co-Req
First 8-weeks				
ITSC 2335	Application Software Problem Solving (Excel)	3	F1, F2, S1, S2, SU	BCIS 1305
Second 8-weeks				
ITSC 1391	Special Topics in Computer & Information Sciences, General	3	F2, S2	none
16-weeks				
COSC 1336	Programming Fundamentals I (Java)	3	F, S, SU	none
CPMT 1351	IT Essentials: PC Hardware/Software (A+)	3	F, S, SU	none
ITSE 1302	Computer Programming (Python)	3	F, S	ITSE 1329
Total		15		

Year 2

Course ID	Course	Cr	FALL	Pre/Co-Req
			Terms	
First 8-weeks				
	General Education (See Catalog)	3	F1, F2, S1, S2, SU	none
Second 8-weeks				
INEW 2330	Comprehensive Software Project: Planning & Design	3	F2, S2	ITSE 1302
16-weeks				
ITSE 2321	Object–Oriented Programming (C#)	3	F, S	ITSE 1302
INEW 2334	Advanced Web Programming (PHP, MySQL)	3	F, S	ITSE 1302 & ITSE 1311
COSC 1337	Programming Fundamentals II (Java)	3	F, S, SU	COSC 1336
Total 15				

*CIS-Applied Systems & Design Certificate
CIS-Web Development Foundations Certificate*

		SPRING		
Course ID	Course	Cr	Terms	Pre/Co-Req
First 8-weeks				
	General Education (See Catalog)	3	F1, F2, S1, S2, SU	none
	General Education (See Catalog)	3	F1, F2, S1, S2, SU	none
Second 8-weeks				
	General Education (See Catalog)	3	F1, F2, S1, S2, SU	none
	General Education (See Catalog)	3	F1, F2, S1, S2, SU	none
16-weeks				
COSC 2336	Programming Fundamentals III (C++)	3	F, S	COSC 1337
Total 15				

*AAS Computer Information Systems Degree
Software Development Certificate*

F—FALL

S—SPRING

SU—SUMMER

1—1ST 8—WEEKS

2—2ND 8—WEEKS



Karen Boatman
CIS Department Chair & Assistant Professor
keboatman@actx.edu



Holly Hicks
Business & CIS Program Advisor
advisingdepartment@actx.edu

