

AAS - Software Development							CIP: 11.0201				
60 credit hours							Duration: 80 weeks				
FIRST YEAR											
First Semester			Prerequisite(s)				Lec	Lab	Ext	Cont	Credit
ITSE	1311	Beginning Web Programming					2	2	0	64	3
ITSE	1346	Database Theory and Design					2	2	0	64	3
ITSE	1359	Introduction to Scripting Languages - Python ¹					2	2	0	64	3
PHIL	2303	Introduction to Formal Logic (See Humanities options)					3	0	0	48	3
Total Hours							9	6	0	240	12
Second Semester							Lec	Lab	Ext	Cont	Credit
COSC	1436	Programming Fundamentals I					4	0	0	64	4
IMED	1341	Interface Design	ITSE1311 or consent of Associate Dean/Director				2	2	0	64	3
ITSC	1315	IT Project Management					2	2	0	64	3
ITSE	2309	Database Programming - SQL					2	2	0	64	3
Total Hours							10	6	0	256	13
Third Semester (Summer)							Lec	Lab	Ext	Cont	Credit
ENGL	1301	Composition I					3	1	0	64	3
MATH	1342	Elementary Statistical Methods (See Mathematics options)					3	1	0	64	3
Total Hours							6	2	0	128	6
SECOND YEAR											
First Semester							Lec	Lab	Ext	Cont	Credit
COSC	1437	Programming Fundamentals II	COSC 1420, COSC 1436, or consent of Associate Dean/Director				4	0	0	64	4
ECON	2302	Principles of Microeconomics (See Social / Behavioral Sciences options)					3	0	0	48	3
ITSE	1350	Systems Analysis & Design	COSC 1436, ITSE 1330, or ITSE 1359				2	2	0	64	3
SPCH	1321	Business & Professional Communication (See Speech options)					3	0	0	48	3
Select One Focus Option:											
Option 1: Web Development Option											
ITSE	2302	Intermediate Web Programming ²	ITSE 1311 or consent of Associate Dean/Director				2	2	0	64	3
Option 2: General Option											
ITSE	2375	Introduction to Data Science and Artificial Intelligence ³	ITSE 1359				2	2	0	64	3
							14	4	0	288	16
Second Semester							Lec	Lab	Ext	Cont	Credit
COSC	2436	Programming Fundamentals III	COSC 1437 or consent of Associate Dean/Director				4	0	0	64	4
ITSE	2374	Software Development Project (Capstone) ⁴	COSC 1437, IMED 1341 & ITSE 2309				2	2	0	64	3
Select One Focus Option (must be same focus option chosen above):											

Option 1: Web Development Option									
INEW	2334	Advanced Web Programming ²	ITSE 2302 or consent of Associate Dean/Director	2	2	0	64	3	
ITSE	2371	Front End Web Frameworks ²	ITSE 2302 or consent of Associate Dean/Director	2	2	0	64	3	
Option 2: General Option									
ITSE	2376	Secure Software Development ³	COSC 1437	2	2	0	64	3	
		ELECTIVE *		2	2	0	64	3	
Total Hours				10	6	0	256	13	
GRAND TOTAL				49	24	0	1168	60	

1. May substitute ITSC 1342

2. Web Development Option - students must take ITSE 2302, INEW 2334 and ITSE 2371

3. General Option - studentss must choose ITSE 2375, ITSE 2376, and an elective.

4. May substitute ITSE 2380

**Elective (3 credit hours): ARTC 1325, ARTC 2371, BMGT 2303, COSC 2325, MATH 1342 (if not taken previously), MATH (any 2000-level), or any ITSE course not already in anward*