

SOFTWARE DEVELOPMENT TECHNOLOGY - AAS (2316)

Division: Mathematics, Engineering Technologies and Computer Sciences (METCS) Division

Code	Title	Credits
General Education Requirements (20 Credits)		
<i>Written & Oral Communication (6)</i>		
ENG 101	College Composition I	3
ENG 102	College Composition II	3
or ENG 105	Technical Writing	
<i>Quantitative/Scientific Knowledge, Skills & Reasoning (8)</i>		
MTH 100	Intro. to College Mathematics	4
Select one of the following:		4
BIO 101, BIO 102, BIO 103, BIO 104, BIO 116, BIO 121, BIO 122, BIO 211, BIO 220, BIO 237,		
CHM 101, CHM 102, CHM 103, CHM 104,		
MTH 113, MTH 119, MTH 120, MTH 121, MTH 122, MTH 127,		
PHY 101, PHY 102, PHY 103, PHY 104, PHY 113, PHY 114		
<i>Society & Human Behavior (3)</i>		
Select one of the following:		3
ANT 101, ANT 105, ECO 101, ECO 102, POL 104, PSY 101, PSY 102, PSY 219, SOC 101, SOC 108, SOC 219		
<i>Humanistic Perspective (3)</i>		
Select any English Literature Course		3
or Select one of the following courses:		
ART 100, ART 101, ART 102, ART 200, CIN 101, CIN 103, DRA 100, FRN 101, FRN 102, MUS 100, MUS 109, MUS 110, MUS 117, PHI 101, REL 105, SPN 101, SPN 102		
or Select any History (HST) course		
Major Requirements (33 Credits)		
CSC 104	Network Fundamentals	3
CSC 137	Intro. to Programming in Java	3
CSC 151	Intro Develop Web Applications	3
CSC 231	Database Design	4
CSC 232	Advanced Database Management	4
CSC 237	Enterprise Java Programming	4
CSC 251	Web Application Development	4
CSC 253	Intro. System & Cloud Admin.	4
CSC 255	Mobile Application Development	4
Additional Course Requirements (7 Credits)		
Select one of the following:		4
CSC 113, CSC 114, CSC 116		
Select one of the following:		3
CSC 250, CSC 260, Approved Technical Course		
Total Credits		60

Notes:

1. For an explanation of why General Education courses are included in this Program, please refer to the Section on General Education for an explanation of its Purpose and Requirements.

2. This plan assumes the student is eligible to enroll in College Level Courses (designated as 100 +, e.g., ENG 101 College Composition I, HST 101 World Civilization I, MTH 100 Intro. to College Mathematics). Placement results will determine College Level Readiness in English and Mathematics.

Upon completion of this program, graduates will be able to:

- Design, develop, and implement a major software-based project;
- Test software systems with specification, performance, maintenance, and quality requirements;
- Apply software engineering theory, principles, tools, and processes, as well as theory and principles of computer science and mathematics, to the development and maintenance of complex software development systems;
- Evaluate impact of potential solutions to software engineering problems in a global society, using knowledge of contemporary issues and emerging software engineering trends, models, tools, and techniques;
- Create interactive Web applications; and
- Design and develop mobile applications for the Android platform.