B.S. Computer Science: Web and Mobile Concentration 127 Credits

Course Prefix	Course Title	Credits	Prerequisites
*Remedial Courses			
MATH003	Intermediate Algebra	**3	None
ENG050	Grammar and Composition	**3	None
***Additional Math Courses			
MATH116	Pre-Calculus	***4	Placement Test or MATH003
First Academic Year (Fall, Spring, and Summer)			
ENG100	English Composition	3	Placement Test or ENG050
MATH143	Calculus 1	4	Placement Test or MATH116
CS100	Introduction to Scripting: Python	3	None
CS115	Web Programming: HTML5, CSS, and JavaScript	3	None
General Education Course	Please see General Education	3	As Required
MATH144	Calculus 2	3	MATH143
SCI145	College Physics 1	4	MATH143
CS110	C Programming	4	MATH115 or MATH116
SWE125	Introduction to Mobile Programming: iOS	3	None
General Education Course	Please see General Education	3	As Required
Second Academic Year (Fall, Spring, and Summer)			
ENG220	Technical Writing	3	ENG100
MATH245	Calculus 3	3	MATH144
CS212	Java Programming	4	CS110
CS295	Data Structures and Algorithms	4	CS110 or CS285
SWE120	Flash Programming: ActionScript	3	None
ENG250	Speech and Oral Communication	3	ENG100
MATH295	Discrete Mathematics	3	MATH144
CS221	Linux Programming Environment	3	CS110
CS285	C++ Programming: Object Oriented Programming	4	CS100, CS110, or CS212
General Education Course	Please see General Education	3	As Required

* Remedial classes are required when a placement test is not passed.
** Remedial class credits are not counted towards earning a degree.

Course Prefix	Course Title	Credits	Prerequisites
Third Academic Year (Fall, Spring, and Summer)			
MATH320	Geometry and Transformation	3	MATH144
SCI245	College Physics 2	4	SCI145
SWE351	Computer Architecture	3	CS295
SWE352	Embedded Software Systems	3	CS110 and MATH143
General Education Course	Please see General Education	3	As Required
CS340	Software Engineering Methods and Project 1	3	CS285
SWE375 or SWE376	Mobile Programming for iOS or Mobile Programming for Android	3	CS212 or CS285
CS445	Advanced C++ Programming	3	CS285
General Education Course	Please see General Education	3	As Required
General Education Course	Please see General Education	3	As Required
Fourth Academic Year (Fall, Spring, and Summer)			
BUS270	Project Management	3	ENG100
SWE475	Mobile Programming Graphics	3	SWE375 or SWE376
SWE484	Senior Project 1: Planning	3	Senior Level
Elective or INT401	Advisor approved course or Internship 1	3	As Required
General Education Course	Please see General Education	3	As Required
CS320	Operating Systems Concepts	3	CS221 and CS295
SWE485	Senior Project 2: Execution	3	SWE484
Elective or INT401	Any Advisor approved course or Internship 1	3	As required
General Education Course	Please see General Education	3	As Required
General Education Course	Please see General Education	3	As Required

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