

B.S. Computer Science: Software Development Concentration 127 Credits

<i>Course Prefix</i>	<i>Course Title</i>	<i>Credits</i>	<i>Prerequisites</i>
<i>*Remedial Courses</i>			
MATH003	Intermediate Algebra	**3	None
ENG050	Grammar and Composition	**3	None
<i>***Additional Math Courses</i>			
MATH116	Pre-Calculus	***4	Placement Test or MATH003
<i>First Academic Year (Fall, Spring, and Summer)</i>			
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	3	MATH115 or MATH116
SWE125	Introduction to Mobile Programming: iOS	3	None
General Education Course	Please see General Education	3	As Required
<i>Second Academic Year (Fall, Spring, and Summer)</i>			
ENG220	Technical Writing	3	ENG100
MATH245	Calculus 3	3	MATH144
CS212	Java Programming	4	CS110
CS295	Data Structures and Algorithms	4	CS110 or CS285
Elective	Advisor Approved Course	3	As Required
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
CS445	Advanced C++ Programming	3	CS285
Elective	Advisor Approved Course	3	As Required
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
CS442	Software Engineering Methods and Project 2	3	CS340
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 Internship 1	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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