

B.S. Software Engineering: 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 Term</i>			
ENG100	English Composition	3	Placement Test or ENG050
MATH143	Calculus 1	4	Placement Test or MATH116
SWE102	Introduction to Scripting: Python for Programmers	3	None
SWE115	Web Programming: HTML5	3	None
General Education Course	Please see General Education	3	As Required
<i>Second Term</i>			
MATH144	Calculus 2	3	MATH143
SCI145	College Physics 1	4	MATH143
SWE110	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>Third Term</i>			
ENG220	Technical Writing	3	ENG100
MATH245	Calculus 3	3	MATH143
SWE212	Java Programming	4	SWE110
SWE310	Data Structures and Algorithms	4	SWE110 or SWE285
Elective	Advisor Approved Course	3	As Required
<i>Fourth Term</i>			
ENG250	Speech and Oral Communication	3	As Required
MATH310	Discrete Mathematics	3	MATH144
SWE221	Linux Programming Environment	3	SWE110
SWE285	C++ Programming: Object Oriented Programming	4	SWE102, SWE110, or SWE212
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.*

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Fifth Term			
MATH320	Geometry and Transformation	3	MATH144
SCI245	College Physics 2	4	SCI145
SWE351	Computer Architecture	3	SWE310
SWE352	Embedded Software Systems	3	SWE110 and MATH143
General Education Course	Please see General Education	3	As Required
Sixth Term			
SWE340	Software Engineering Methods and Project 1	3	SWE285
SWE445	Advanced C++ Programming	3	SWE285
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
Seventh Term			
DMM270	Project Management	3	None
SWE442	Software Engineering Methods and Project 2	3	SWE340
SWE484	Senior Project 1: Planning	3	Senior Level
Elective or INT401	Any Advisor approved course or Internship 1	3	As Required
General Education Course	Please see General Education	3	As Required
Eighth Term			
SWE320	Operating Systems Concepts	3	SWE221 and SWE310
SWE485	Senior Project 2: Execution	3	SWE484
INT401 Internship 1 or Elective	Internship 1 or Any 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

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