Bachelor of Science in Software Engineering

Computer Science, Engineering and Mathematics
University of South Carolina Aiken

First Year

1st Semester (16 hrs)

Course	Title	hrs
MATH A141	Calculus I	4
CSCI A125	Introduction to Computer Science	3
ENGL A101	Critical Reading & Comp.	3
GEN ED	HIST A101 or A102	3
MATH A174	Discrete Mathematics	3

2nd Semester (17 hrs)

Course	Title	hrs
MATH A142	Calculus II	4
ENGL A102	Rhetoric & Composition	3
CSCI A145	Algorithmic Design I	4
CSCI A185*	Computer Applications	3
GEN ED	Social and Behavioral Science	3

Second Year

1st Semester (16 hrs)

Course	Title	hrs
CSCI A146	Algorithmic Design II	4
MATH A344	Linear Algebra for CS & Engr	3
CSCI A255	Intro to Information Security	3
College Req.	Fine Arts Elective	3
GEN ED	COMM A201/A241	3

2nd Semester (15 hrs)

Course	Title	hrs
CSCI A220	Data Structures & Algorithms	3
CSCI A340	Mobile Application Development	3
CSCI A360*	Software Engineering	3
ELEC	Free Elective	3
TECH ELEC	Technical Elective	3

Third Year

1st Semester (16 hrs)

Course	Title	hrs
CSCI A460^	Human-Computer Interaction	3
CSCI A225^	Web Development	3
CSCI A465^	Software Project Management	3
GEN ED	Humanities	3
College Req.	Free Elective	4

2nd Semester (15 hrs)

Course	Title	hrs
CSCI A462*	Software Testing & Quality	3
CSCI A320*	Object-Oriented Programming	3
CSCI A415*	Computer Network	3
GEN ED	Humanities	3
GEN ED API	POLI A201, HIST A201/A202	3

Fourth Year

1st Semester (13 hrs)

Course	Title	hrs
CSCI A520^	Database System Design	3
CSCI A591^	Capstone Seminar I	3
CSCI A525^	Secure Software Engineering	3
GEN ED	Natural Science with Lab	4

2nd Semester (13 hrs)

Course	Title	hrs
CSCI A592*	Senior Capstone II	3
TECH ELEC	Technical Elective	3
College Req.	Natural Science with Lab	4
ELEC	Free Elective	3

^Fall only   *Spring only   +Varies   Course frequency notes are subject change and do not include courses managed by other departments