

# SCHOOL OF SCIENCE AND ENGINEERING

## PROGRAM OF STUDY IN COMPUTER SCIENCE

### FRESHMAN YEAR

<i>First Semester</i>			<i>SCH</i>	<i>Second Semester</i>			<i>SCH</i>
ENG 131	Analysis & Argumentation	3		ENG 132	Information, Literacy & Research	3	
MATH 143	Calculus I	4		MATH 144	Calculus II	4	
*CSC 132	Intro to Computing & Prog Con	3		*CSC 135	Introduction to Programming	3	
*CSC 139	Web Development	3		*CSC 133	Digital Logic	3	
HIST 130	African American History	3			Global and Intercultural	3	
STEM 111	The College Experience I	1		STEM 112	The College Experience II	1	
					Health and Wellness	2	
<b>Total</b>			<b>17</b>	<b>Total</b>			<b>19</b>

### SOPHOMORE YEAR

<i>First Semester</i>			<i>SCH</i>	<i>Second Semester</i>			<i>SCH</i>
*CSC 136	Algorithm Design I	3		MATH 230	Linear Algebra	3	
MATH 336	Discrete Mathematics	4		*CSC 138	Algorithm Design II	3	
ENG 237	Oral Communication	3		*CSC 234	Theory of Computations	3	
*CSC 231	Assembly Language	3		*CSC 235	Fundamentals of App Dev	3	
*CSC 232	Foundations of App Dev	3		FR/SP/AR 233	Intermediate Foreign Language	3	
STEM 221	Professional Pathways Dev.	2			Global and Intercultural	3	
<b>Total</b>			<b>18</b>	<b>Total</b>			<b>18</b>

### JUNIOR YEAR

<i>First Semester</i>			<i>SCH</i>	<i>Second Semester</i>			<i>SCH</i>
PHYS 233	Prin of Physics I	3		PHYS 234	Principles of Physics II	3	
PHYS 213L	Prin of Physics I Lab	1		PHYS 214L	Principles of Physics II Lab	1	
*CSC 237	Java Programming	3		*CSC 238	Intro to Computer Security	3	
*CSC 333	Data Structures	3		MATH 236	Probability and Statistics	3	
MATH 237	Differential Equations	3		*CSC 334	Algorithms Design & Analysis	3	
*CSC 336	Advanced Concepts in App Dev	3		*CSC 338	Intro to Artificial Intelligence	3	
*CSC 337	Computer Org and Arch	3		<b>Total</b>			<b>16</b>
<b>Total</b>			<b>19</b>	<b>Total</b>			<b>16</b>

### SENIOR YEAR

<i>First Semester</i>			<i>SCH</i>	<i>Second Semester</i>			<i>SCH</i>
*CSC 435	Software Engineering	3		*CSC 436	Operating Systems	3	
*CSC 431	Programming Languages	3		*CSC 434	Database Management	3	
*CSC 339	Data Comm. & Networking	3		*CSC 437	Senior Capstone	3	
*CSC 430	Senior Research & Prof. Exp.	3		*CSC	CSC Elective	3	
<b>Total</b>			<b>12</b>	<b>Total</b>			<b>12</b>

Total SCH 130

SCH in Major\* 75

\*Major courses require a "C" or better.