

## Suggested Course Sequence

B.S. Computer Science (for students entering in Fall 2007 or later)

PLEASE NOTE: Considerable flexibility exists for moving courses between spring and fall semesters, except when a course is only offered in spring or fall (noted in some Specialization Courses). When altering course sequences, give careful consideration to prerequisites. Consult the long term schedule for information on the expected availability of advanced electives.

FIRST SEMESTER		SECOND SEMESTER	
Intro to Object Oriented Progr. (RS)*	4	Obj. Oriented Prog. & Data Abstractn	4
College Composition I	3	College Composition II	3
Pre-Calculus (if needed otherwise Calculus I)	4	Calculus I (Calc. II if Calc. I was taken)	4
Discrete Structures	3	General Education course (ACE bank)	3
General Education course ++	3	General Education course (HHL bank) Rowan Seminar (RS) course if not already taken	3
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>17</b>
THIRD SEMESTER		FOURTH SEMESTER	
Foundations of Computer Science	3	Design & Analysis of Algorithms	3
Data Structures and Algorithms	4	Linear Algebra	3
Calculus II (Linear Algebra, if Calc. II was taken)	4	Lab Science Choice **	4
Computer Lab Techniques +++	3	Public Speaking	3
		Computer Organization	3
<b>TOTAL</b>	<b>14</b>	<b>TOTAL</b>	<b>16</b>
FIFTH SEMESTER		SIXTH SEMESTER	
Programming Languages	3	Principles of Digital Computers and Digital Computer Laboratory	4
Operating Systems	3	CS restricted elective	3
Computers and Society (Writing Intensive (WI)) <sup>+</sup>	3	Software Engineering I	3
Lab Sequence 1 **	4	Lab Sequence 2 **	4
Probability and Statistical Inference for Computing Systems (if not taken, or General Ed. (HHL LIT) course)	3	General Education course (HHL Literature (LIT) course if not already taken)	3
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>17</b>
SEVENTH SEMESTER		EIGHTH SEMESTER	
Computer Science Senior Project	3	CS Restricted elective	3
CS restricted elective	3	General Education course++	3
CS restricted elective	3	Free Elective	3
General Education course (SBS Bank) (Multicultural/Global Studies (M/G) course)	3	Free Elective (if needed to complete 120 credit hours requirement)	3
Free Elective	3		
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>Up to 12</b>
<p>* Computer Literacy/Rowan Seminar: All students must either pass the University's Computer Competency Exam or pass Computer Literacy, by the end of their freshman year. Similarly all students must enroll in a Rowan Seminar course (marked RS in course catalog) in their freshman year</p>			
<p>** Lab Sequence courses must be Biology I and II (BIOL.100-101), Chemistry I and II (CHEM.100-101), or Physics I and II with Calculus (PHYS.200-201). The Lab Science choice is another course chosen from these courses.</p>			
<p>+ Rowan's Writing Intensive requirement is satisfied by the Writing Intensive version of Computers and Society</p>			
<p>++ Must be a General Education Course from the ACE, HHL, or SBS banks</p>			
<p>+++ Comp. Lab Techniques is not required, but strongly recommended. Counts as one "free elective"</p>			