

# MAJOR IN COMPUTER SCIENCE

(63 credits)

Code	Title	Credits
<b>Required Computer Science Courses (40 Credits)</b>		
CPS210	Computer Science I: Foundations <sup>1</sup>	4
CPS310	Computer Science II: Data Structures	4
CPS315	Computer Science III	4
CPS330	Assembly Language and Computer Architecture	4
CPS340	Operating Systems	4
CPS352	Object Oriented Programming	3
CPS353	Software Engineering	3
CPS415	Discrete and Continuous Computer Algorithms	3
CPS425	Language Processing	4
Capstone: Select one of the following to pair with CPS485:		3
CPS440	Database Principles	
CPS470	Computer Communication Networks	
CPS493	Computer Science Selected Topic (by advisement)	
<b>and</b>		
CPS485	Projects	4
<b>Required Mathematics Courses (11 Credits)</b>		
MAT251	Calculus I	4
MAT252	Calculus II	4
MAT320	Discrete Mathematics for Computing	3
<b>Required Science Courses (8 Credits)</b>		
Select one of the following groups:		8
Chemistry:		
CHE201	General Chemistry I	
CHE211	General Chemistry I Lab	
CHE202	General Chemistry II	
CHE212	General Chemistry II Lab	
Physics:		
PHY201	General Physics 1	
PHY211	Physics 1 Laboratory	
PHY202	General Physics 2	
PHY212	General Physics 2 Lab	
Biology:		
BIO201	General Biology I	
BIO211	Gen Bio 1 Lab	
BIO202	General Biology II	
BIO212	Gen Bio 2 Lab	
Geology:		
GLG201	Physical Geology	
GLG211	Physical Geology Laboratory	
One 4-credit Geology course with Physical Geology as a prerequisite		
<b>Required Engineering Courses (4 Credits)</b>		
EGC220	Digital Logic Fundamentals	3

EGC221	Digital Logic Lab	1
<b>Total Credits</b>		<b>63</b>

<sup>1</sup> A grade of B- or better in CPS210 Computer Science I: Foundations is required to progress to CPS310 Computer Science II: Data Structures .