

# B.S. IN COMPUTER SCIENCE

Code	Title	Credits
Major in Computer Science (B.S.)		
Choose one of the following sequences:		6-7
COS 100	Introduction to Programming	
COS 105	Object-oriented Design and Programming	
or		
COS 205	Scientific Computing	
one additional Computer Science course		
COS 212	Data Structures	4
COS 216	Algorithms and Advanced Data Structures	3
COS 235	Computer Systems	4
COS 320	Computer Graphics Programming	3
COS 335	Computer Security	3
COS 341	Computability and Complexity	3
COS 351	High-Performance Computing	3
COS 371	Organization of Programming Languages	3
COS 450	Humans and Computers	3
COS 477	Software Engineering	3
Electives from 300-level or above COS courses (excluding COS 420), including MAT 376, PHY 352/PHY 353, or ENR 352/ENR 353: <sup>1</sup>		9
MAT 124M	Calculus 1 <sup>2</sup>	4
MAT 125	Calculus 2	4
MAT 211	Linear Algebra	3
MAT 241	Discrete Mathematics	3
MAT 330	Probability and Statistics	3
Code	Title	Credits
Major		64-65
General Education		44-45
Electives		13
Total Credits		122

<sup>1</sup> MAT 223 or MAT 224 and PHY 296/PHY 297 are prerequisites for PHY 352/PHY 353 and ENR 352/ENR 353.

<sup>2</sup> Students may test into this course via successful completion of the Math and Computer Science department placement exam or by completing MAT 123M and the Math and Computer Science department placement exam requirements.

Courses whose number is followed by a letter fulfill a General Education requirement.

Students may not declare a B.A. in Computer Science and a B.S. in Computer Science.

Students may not declare a B.S. in Computer Science and a Minor in Computer Science.

Students may not declare a B.A. in Computer Science with Software Project Management and a B.S. in Computer Science.