

B.S. IN SOFTWARE ENGINEERING

Code	Title	Credits
Major in Software Engineering (B.S.)		
COS 111	Introduction to Programming	4
COS 211	Data Structures	4
COS 235	Computer Systems	4
COS 277	Software Development Fundamentals	4
COS 299	Careers in Mathematics and Computer Science Seminar	0
COS 313	Database Systems	2
COS 335	Computer Security	3
COS 371	Organization of Programming Languages	4
COS 386	Data Communications and Computer Networks	3
COS 420	Software Process	3
COS 450	Humans and Computers	2
COS 477	Machine Learning and Artificial Intelligence (AI) for Business	3
MAT 124M	Calculus 1 ¹	4
MAT 211	Linear Algebra	4
MAT 242	Introduction to Proofs	2
MAT 248	Mathematics of Computer Science	4
BUS 334	Principles of Project Management	2
ENR 160	Introduction to Engineering	2
ENR 465	Engineering Design Seminar	1
ENR 490	Engineering Design Project	3
Electives from 300-level or above COS courses or BUS 336 or MAT 376		9
Code	Title	Credits
Major		67
General Education *		44-52
Electives		3-11
Total Credits		122

¹ Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.

* Courses whose number is followed by a letter fulfill a General Education requirement. Students may not declare a B.S. in Software Engineering and a Minor in Computer Science. Students may not declare a B.S. in Software Engineering and a Minor in Engineering.