B.S. IN COMPUTER ENGINEERING

Major in Computer 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 335 Computer Security 3 COS 386 Data Communications and Computer Networks 3 COS 450 Humans and Computers 2 ENR 160 Introduction to Engineering 2 ENR 306 Digital Logic and Design 4 & ENR 307 and Digital Logic and Design 4 & ENR 316 Analog Circuitry and Design 4 & ENR 317 and Analog Circuitry & Design Lab ENR 321 Statistical Methods in Engineering 2 ENR 336 Signals and Systems 4 ENR/PHY 352 Computer Methods in Physics and Engineering 3 ENR/PHY 353 Computer Methods in Physics and Engineering Lab 1 ENR 436 Microprocessors 4 & ENR 437 and Microprocessors Lab ENR 490 Engineering Design Project 3 MAT 124M Calculus 1 1 MAT 125 Calculus 2
COS 211 Data Structures 4 COS 235 Computer Systems 4 COS 277 Software Development Fundamentals 4 COS 277 Software Development Fundamentals 4 COS 335 Computer Security 3 COS 386 Data Communications and Computer Networks 3 COS 450 Humans and Computers 2 ENR 160 Introduction to Engineering 2 ENR 306 Digital Logic and Design 4 & ENR 307 and Digital Logic and Design Lab ENR 316 Analog Circuitry and Design 4 & ENR 317 and Analog Circuitry & Design Lab ENR 321 Statistical Methods in Engineering 2 ENR 336 Signals and Systems 4 ENR/PHY 352 Computer Methods in Physics and Engineering 3 ENR/PHY 353 Computer Methods in Physics and Engineering Lab 1 ENR 436 Microprocessors 4 & ENR 437 and Microprocessors Lab ENR 465 Engineering Design Seminar 1 ENR 490 Engineering Design Project 3 MAT 124M Calculus 1 1
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MAT 124M Calculus 1 ¹ 4
MAT 223 Multivariable Calculus 4
MAT 224 Differential Equations with Linear Algebra 4
MAT 242 Introduction to Proofs 2
MAT 248 Mathematics of Computer Science 4
PHY 292 General Physics I 4 & PHY 292D and General Physics I Lab
PHY 296 General Physics II 4
& PHY 297 and General Physics II Lab
PHY 302 Electronics 4 & PHY 303 and Electronics Lab
Choose one of the following courses: 0-1
COS 299 Careers in Mathematics and Computer Science Seminar
ENR 260 Careers in Engineering and Physics Seminar
Code Title Credits
Major 86-87
General Education * 40-48
Total Credits 127-134

B.S. in Computer Engineering 2

- 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 Computer Engineering and a Minor in Computer Science.

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