



COMPUTER ENGINEERING PROGRAM (2021 - 2022)

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| Fall of First Year (17 credits) | | | Spring of First Year (17 credits) | | |
| MATH 1210 | Calculus I | 5 | MATH 1220 | Calculus II | 5 |
| ECE 1000 | Intro. to Electrical and Computer Engineering | 3 | PHYS 2210 | Physics for Scientists and Engineers I | 4 |
| CS 1400 | Fundamentals of Programming | 3 | PHYS 2215 | Physics for Scientists and Engineers I Lab | 1 |
| ENGL 1010 | Introduction to Writing | 3 | ECE 2700 | Digital Design I | 3 |
| Am. Inst. | Choose from GE approved American Institution list | 3 | ECE 2705 | Digital Design I Lab | 1 |
| | | | ENGL 2010 | Intermediate Writing | 3 |
| Fall of Second Year (15 credits) | | | Spring of Second Year (15 credits) | | |
| PHYS 2220 | Physics for Scientists and Engineers II | 4 | CHEM 1210 | Principles of Chemistry | 4 |
| PHYS 2225 | Physics for Scientists and Engineers II Lab | 1 | CHEM 1215 | Principles of Chemistry Lab | 1 |
| ECE 2250 | Circuit Theory | 3 | ECE 3740 | Digital Design II | 3 |
| ECE 2255 | Circuit Theory Lab | 1 | ECE 3760 | Electronic Systems | 3 |
| ECE 3750 | Engineering Analysis | 3 | ECE 3765 | Electronic Systems Lab | 1 |
| CS 1410 | Object-Oriented Programming | 3 | CS 2420 | Introduction to Algorithms and Data Structures | 3 |
| Fall of Third Year (15 credits) | | | Spring of Third Year (17 credits) | | |
| ECE 3710 | Applied Engineering Probability & Statistics | 3 | ECE 3780 | Communication Systems and Circuits | 3 |
| ECE 3730 | Embedded Systems I | 3 | ECE 3785 | Communication Systems and Circuits Lab | 1 |
| ECE 3770 | Signals and Systems | 3 | ECE 4730 | Embedded Systems II | 3 |
| CS 2300 | Discrete Structures | 3 | ECE 4750 | Digital Signal Processing | 3 |
| CS 2370 | C++ Programming | 3 | ECE 4755 | Digital Signal Processing Lab | 1 |
| | | | Biology | Choose from the GE approved Biology List | 3 |
| | | | COMM 1020 | Public Speaking | 3 |
| Fall of Fourth Year (15 credits) | | | Spring of Fourth Year (15 credits) | | |
| ECE 4760 | VLSI Design | 3 | ECE 4950 | Electrical and Computer Engineering Capstone II | 3 |
| ECE 4765 | VLSI Design Lab | 1 | CE Elective | Choose from the CE approved Electives | 3 |
| ECE 4700 | Computer Architecture for Engineering Applications | 3 | CS 3060 | Operating Systems Theory | 3 |
| ECE 4900 | Electrical and Computer Engineering Capstone I | 3 | COMM 2110 | Interpersonal Communications | 3 |
| Health | HLTH 1100 or PES 1097 | 2 | PHIL 205G | Ethics and Values | 3 |
| Fine Arts | Choose from the GE approved Fine Arts List | 3 | | | |