Computer Engineering, B.S. Course Sequence

Below is a typical course sequence for the Computer Engineering bachelor's degree program. Schedules will vary by student, depending on areas of interest.

* + Semester 1
    - Calculus with Analytic Geometry I
    - Chemical Principles I
    - Experimental Chemistry I
    - Rhetoric and Composition
    - Introduction to Programming Techniques
    - First-Year Seminar
  + Semester 2
    - Calculus with Analytic Geometry II
    - General Physics: Mechanics
    - Intermediate Programming
    - Introduction to Microeconomics
    - Arts course
  + Semester 3
    - Ordinary Differential Equations
    - Introduction to Digital Systems
    - Digital Design Laboratory
    - Matrices

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| * + - General Physics: Electricity and Magnetism |

* + - Effective Speech
    - Health and Physical Activity

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| * + Semester 4 |

* + - Circuits and Devices
    - Discrete Mathematics for Computer Science
    - Calculus and Vector Analysis
    - Effective Writing: Technical Writing
    - General Physics: Wave Motion and Quantum Physics
  + Semester 5
    - Data Structure and Algorithms
    - Advanced Digital Design
    - Electronic Circuit Design
    - Microprocessors
    - Statistical Analysis
  + Semester 6
    - Signals and Systems: Continuous and Discrete-Time
    - VLSI Digital Design

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| * + - Embedded Systems Design |

* + - Introduction to Computer Architecture
    - Humanities course

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| * + Semester 7 |

* + - Computer Engineering Design
    - Communications Network
    - Operating Systems
    - Technical Elective
    - Social and Behavioral Science course
  + Semester 8
    - Computer Engineering Project
    - Technical Elective
    - Technical Elective
    - Arts course
    - Humanities course
    - Health and Physical Activity