General Coursework in a Computer Engineering Degree

Computer engineering majors complete several courses to fulfill various categories while pursuing a bachelor’s degree. In addition to general education courses, students also must successfully complete electrical engineering, computer engineering, general computer and mathematical, and computer engineering elective courses.[\n]

[extend]In many programs, the core computer engineering curriculum includes calculus, engineering analysis, and physics. Electrical engineering courses include electronic circuits, signals and systems, electrical engineering design, and logic design. Computer engineering courses often include computer architecture, digital system design, microcomputer systems, and C++. Other computer-based coursework could include probability, random processes, and computer programming with engineering. The range of electives varies greatly by program and institution, but common courses include operating systems, Unix, network security, and software engineering.[\n][/extend]