Colorado Community College Transfer Student Advising Guide AY 2014-2015

**Electrical Engineering, B.S.**

**Electrical and Computer Engineering, B.S.**

Departmental Web Address: [ecee.colorado.edu](http://ecee.colorado.edu)

**Transfer Credit and Contact Information:**

- Visit the Office of Admissions to see how your transfer courses will be accepted at CU-Boulder [http://www.colorado.edu/admissions/undergraduate/apply/transfer/transfercredit](http://www.colorado.edu/admissions/undergraduate/apply/transfer/transfercredit)
- The College of Engineering and Applied Science transfer student webpage is a good course and contact resource [http://www.colorado.edu/engineering/admissions/transfer/co-community-colleges](http://www.colorado.edu/engineering/admissions/transfer/co-community-colleges)

**College of Engineering and Applied Science Admissions Criteria:**

- For guaranteed admission, transfer applicants from a Colorado Community College should have a minimum cumulative GPA of 3.30, with at least 24 credit hours completed.
- Grades earned in individual mathematics, science, engineering, and language arts courses must all be "B" or higher.
- Students must have completed at least two semesters of college-level calculus, AND two semesters of calculus-based physics and/or college-level chemistry, to be considered for admission.
- Students who do not meet the above requirements, but whose credentials are close, should see the competitive transfer criteria listed at: [www.colorado.edu/admissions/undergraduate/apply/transfer/admissioncriteria](http://www.colorado.edu/admissions/undergraduate/apply/transfer/admissioncriteria)
- For more details, see the Office of Admissions web site for transfer students at [www.colorado.edu/admissions/undergraduate/apply/transfer](http://www.colorado.edu/admissions/undergraduate/apply/transfer)

**Program Overview:**

Computer engineers (or computer hardware engineers) research, design, develop, test, and oversee the manufacture and installation of computer hardware, including computer chips, circuit boards, computer systems, and related equipment such as keyboards, routers, and printers. This field should not be confused with computer software engineers, who design and develop the software systems that control computers.

The work of computer hardware engineers is similar to that of electronics engineers in that they may design and test circuits and other electronic components; however, computer hardware engineers do that work only as it relates to computers and computer-related equipment. They work on the interface between different pieces of hardware and strive to provide new capabilities to existing and new systems or products.

The work of a computer engineer is grounded in the hardware -- from circuits to architecture -- but also focuses on operating systems and software. Computer engineers must understand logic design, microprocessor system design, computer architecture, computer interfacing, and continually focus on system requirements and design.

**Special Curriculum Notes:**

- All pre-requisite courses require a grade of C- or higher
- Curriculum requirements and information can be found online in the Help! Guide at [ecee.colorado.edu](http://ecee.colorado.edu)
- Students will complete one area of Electrical Engineering concentration within the major (see Tracks pages in the online Help! Guide)
- Both the Electrical Engineering and the Electrical and Computer Engineering BS degrees are accredited by ABET.