

ELECTRICAL ENGINEERING, MS

Introduction

The master of science in electrical engineering at CU Denver is geared toward electrical engineers who are interested in advancing their careers or move into leadership positions. There is no specific curriculum for the master of science degree except for a breadth requirement, which is a combination of electrical engineering courses chosen by the student.

Areas of concentration

Graduate programs in electrical engineering offer the following areas of concentration:

- Communications and signal processing
- Controls and signal processing
- Microelectronics and VLSI
- Fields, waves and optics
- Computer engineering and embedded system design
- Energy and power systems

Program Requirements

To fulfill the requirements for the master of science in electrical engineering, the Electrical Engineering Department requires that, within a seven-year period, the candidate completes an approved program in one of two options:

1. A **thesis option** consisting of at least 30 semester hours, including 6 credit hours of MS thesis, or
2. A **course-only option** consisting of at least 30 semester hours.

It is also required the candidate maintain a grade point average of 3.0 or higher. In compliance with the Graduate Education Policies and Procedures, the *minimum* grade required for a unit to count toward the required semester hours is B minus (2.7).

The student must take at least four 3-hour graduate courses (12 credit hours) in the primary area of concentration, and at least two 3-hour graduate courses (6 credit hours) in the secondary area. All of these courses must be taken through the CU Denver Department of Electrical Engineering. The remaining courses may be taken from any area of concentration. A student may also take one 3-credit independent study course with a graduate faculty member of the CU Denver electrical engineering department.

At least 21 graduate credit hours must be taken from the CU Denver Department of Electrical Engineering. At the discretion of the graduate committee, a maximum of nine graduate credits may be transferred from other programs. A request to take a course(s) out side of the department must be approved by the advisor and then approved by a vote from the graduate committee.

Contact the Department of Electrical Engineering (electrical@ucdenver.edu) for more information.