



Environmental Engineering

UNIVERSITY OF COLORADO **BOULDER**

EVEN Graduate
Program
Rules

Environmental Engineering Program

607 UCB, SEEC S261

Boulder, CO 80303

<http://www.colorado.edu/even>

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Introduction

M.S. and Ph.D. graduate degrees in environmental engineering can be earned through the Environmental Engineering (EVEN) Program. The Program rules governing these degrees are derived from the *Graduate School Rules* of the University of Colorado Boulder, available at <http://www.colorado.edu/GraduateSchool/policies>.

In particular, Article II of the Graduate School Rules, entitled Graduate Education, describes the general policies for all graduate degrees offered on the Boulder campus and represent the minimum requirements for departmental programs.

This document describes the variations from, and additional requirements to, the general Graduate School Rules for all graduate degrees offered through EVEN. It is organized for easy reference to the Graduate School Rules, using the same section structure from Article II, and identifies only the difference between the EVEN Program and Graduate School requirements.

Graduate students in EVEN are expected to understand and comply with the rules of both the Graduate School and the Program. While the Program faculty and staff are available to advise students in meeting these requirements, it is ultimately the responsibility of the student to ensure compliance with these rules.

Section 1: Degree Programs

No variations or additional requirements.

Section 2: Admissions

The following variations and additions apply to EVEN:

For admission to the M.S. or Ph.D. program in Environmental Engineering, applicants will normally be required to hold a baccalaureate or master's degree in engineering, natural science, or mathematics from a college or university of recognized standing. Students without a B.S. or M.S. degree in Chemical, Civil, Environmental, Mechanical or a similar engineering field will be considered on an individual basis, but must have completed or successfully complete courses in:

- calculus, linear algebra, and differential equations (4 semesters)
- probability and statistics (1 semester)
- calculus-based physics (2 semesters)
- general chemistry (2 semesters, CU-Boulder CHEN 1211/CHEM 1221 equivalent)
- fluid mechanics (1 semester)
- fundamentals of environmental engineering (1 semester, CVEN 3414 equivalent)
- a college-level basic or earth science (e.g., biology or geology) (1 semester)

One semester of statics is recommended as it is in civil and mechanical engineering as a prerequisite for fluid mechanics for students lacking an undergraduate engineering degree who wish to pursue licensure after obtaining a graduate degree. However, the requirements for licensure can vary by state.

In addition, students must have at least a 3.00 undergraduate grade point average, or have completed 9 semester hours of relevant graduate course work with at least a 3.25 grade point average. Students must also show promise of ability to pursue advanced study and research, as judged by their scholastic record, four letters of reference, and a personal statement of academic and research interests. For applicants whose undergraduate language of instruction was not English, a TOEFL, IELTS, or Duolingo score must be submitted. This requirement will be waived if the applicant has completed at least one year of full-time study at a U.S. institution (or at an institution in a country where English is the native language) at the time you apply, and within two years from your desired admission term. This can be confirmed by your transcripts. Non-native English speakers only should provide certification of adequate spoken and written English. Preferred scores for each English proficiency exam are:

- TOEFL 90 (only internet-based tests are accepted)
- IELTS 7.0
- Duolingo 115

The above requirements meet or exceed the minimum criteria set by the graduate school and CEAS.

Acceptance to the engineering for developing communities (EDC) emphasis area is limited and applicants must receive specific permission from the EVEN program to either be accepted to, or transfer into, the EDC emphasis area.

Section 3: Transfer Credits

No variations or additional requirements.

Section 4: Course Requirements

The following variations and additions apply to EVEN:

Specific courses are required for each of the M.S. and Ph.D. emphasis areas. They are described on the [EVEN website](#). Elective courses will be determined in consultation with the student's faculty advisor.

For a M.S. degree. The Graduate School allows a maximum of 6 semester hours of 3000/4000 level courses to be applied to the degree. However, for the EVEN M.S. degree, a maximum of 3 semester hours of course work may be completed at the 4000 level upon approval of the faculty advisor. All other course work must be at the 5000 level or higher.

For a Ph.D. degree. M.S. graduates from our EVEN program may transfer up to thirty

semester hours of relevant graduate-level courses, pending program approval. However, all doctoral students must have completed the Environmental Engineering core courses (6 hours), and a quantitative analysis class (3 hours, satisfied by CVEN 5537, CVEN 5454, MCEN 5020 or a similar graduate-level class). See the EVEN website for details.

Section 5: Grades and Quality of Work

The following variations and additions apply to EVEN:

- Courses in which grades of C (2.0) or C+ (2.3) are received are only accepted for Master's degrees with the approval of the advisor.
- Courses taken to remove academic deficiencies may not be taken for pass/fail.

Section 6: Examinations

The following variations and additions apply to EVEN PhD degree students:

- The Chair of the comprehensive examination, dissertation defense committee or advisory committee must be a faculty member of the EVEN program and have a regular or tenured Graduate Faculty appointment. A non-EVEN faculty member maybe appointed as a Co-Chair, if the Chair meets the above requirements. More than one-half of the membership must be University of Colorado-Boulder Graduate Faculty.
- Each doctoral student shall take a Preliminary Examination as determined by the EVEN faculty, normally not later than 12 months from the time the student is first enrolled in the Doctoral Program. The student must pass this examination in order to continue in the Doctoral Program.
- The Comprehensive Examination shall consist of a written and an oral examination. At the Comprehensive Examination, the student shall present a plan for the dissertation research to the Advisory Committee for approval. Failure to pass the Comprehensive Examination may be remedied by repeating the examination after an interval of not less than four months.

Section 7: Foreign Language Requirement

No variations or additional requirements.

Section 8: Full-time Status and Minimum Registration Requirements

No variations or additional requirements.

Section 9: Admission to Candidacy

No variations or additional requirements.

Section 10: Thesis/Dissertation Requirements

No variations or additional requirements.

Section 11: Time Limits for Completion of Degrees

No variations or additional requirements.