

CIVIL & ENVIRONMENTAL ENGINEERING GRADUATE DEGREE REQUIREMENTS – EFFECTIVE FALL 2016

Residency Requirements

Master's Degree: You must be registered in residence for at least three quarters

Doctoral Degree: You must be registered in residence for at least six quarters

Ph.D. Degree Requirements

A. Course Requirements

1. Clear any deficiencies identified at the time of admission to the graduate program.
2. Select 1 or 2 minors and prepare Preliminary Program of Study in consultation with Major Advisor and submit for review to GPC by end of 1 quarter of study.
3. Complete 1 unit of ECI-290.
4. Complete 54 units of approved coursework beyond undergraduate degree.
5. After passing the Qualifying Exam, be enrolled full time (12 units) every quarter and maintain an overall GPA of 3.25 or higher.

B. Qualifying Examination

1. Select **five** members of Qualifying Exam committee in consultation with Major Advisor: *up to four* members from within the department and *at least 1 member* outside the department. Chair of Qualifying Exam cannot be the student's Major Professor.
2. A student must have a UCD cumulative graduate GPA of at least 3.25 to take the Ph.D. Qualifying Exam.
3. Take and pass qualifying exam within two attempts.
4. Petition for advancement to candidacy for the degree of Doctor of Philosophy upon completion of Qualifying Exam.

C. The Doctoral Dissertation

1. Complete and submit dissertation to members of PhD committee.
2. Upon approval by entire committee, submit dissertation to Grad Studies.
3. Deliver an exit seminar.

Masters Degree Requirements

(Complete Program Checklist in consultation with your Faculty Adviser. Submit Preliminary Checklist before 10th day of instruction in your first quarter of study)

A. Course Requirements

1. Clear any deficiencies identified at the time of admission to the graduate program.
2. Complete 1 unit of ECI-290.
3. Complete approved coursework beyond undergraduate degree as follows:
MS – Plan I: 28 units (of which 23 or more units are graduate level engineering courses).
MS – Plan II: 32 units (of which 27 or more units are graduate level engineering courses). --Students (Plan I&II) may count only one upper division undergraduate course excluding the prerequisite courses for students without an engineering degree. Exceptions to this policy will be permitted only by the approval of the student's Major Professor.
4. Maintain an overall GPA of 3.0 or higher.

B. The MS Thesis or Project

1. MS – Plan I students will submit a written thesis which must be approved by all **three** members of the thesis committee.
2. MS – Plan II students will complete a supervised independent project which must be presented to an examination committee of **three** faculty members.

Note: It is the student's responsibility to read and adhere to the CEE Guidance Manual for Graduate Students and their Advisors available at:

<http://cee.engr.ucdavis.edu/graduate-resources/>

OTHER RELEVANT INFORMATION

1. Pre-requisite courses for students without an Engineering degree

Students without a BS in Engineering who are admitted to the CEE graduate program are required to complete the following courses or equivalents.

Select four courses from the following six categories:

- Elementary Fluid Mechanics: ENG 103
- Mechanics of Materials : ENG 104
- Thermodynamics: ENG 105 or Chem 110C or Chem 107A or Chem 107B
- Engineering Hydraulics: ECI 141
- Computer Methods in Civil and Environmental Engineering: ECI 115/ 189E
- Probabilistic Systems Analysis: ECI 114

Including at least two of the following three classes:

- Elementary Fluid Mechanics: ENG 103
- Mechanics of Materials : ENG 104
- Thermodynamics: ENG 105 (*Note: Chem 107A, 107B & 110C will not count towards this requirement*)

Select at least an additional 6 upper division engineering course units (minimum of 2 courses) approved by the student's *Major Professor* or Graduate Advisor.

2. Transferring Courses from another Institution or Program

Master's Degree: The normal limit for transfer credit is six units from another institution, or 12 concurrent units, or up to half of the unit requirement if the courses were taken at another UC campus in graduate status, providing the units were not used to satisfy requirements for another degree.

Doctoral Degree: No formal petition is required to transfer graduate courses for students with a master's degree. In consultation with their major professor, students will list appropriate course work on the Program of Study (available from the CEE department webpage) for GPC approval.

3. Changes to Graduate Program Requirements

You are responsible for fulfilling the requirements of your degree program as they are when you enter the program. Changes in program requirements normally should not affect students already in the program. You should be able to complete a degree under conditions in effect at the time of your admission or reentry.

4. Standards of Scholarship

For courses to count toward satisfaction of degree or credential requirements, the student must earn an "A", "B", "C" or "satisfactory". Upper division or graduate level courses completed with a C- grade or lower do not count towards fulfilling a student's unit requirement for the master's degree or doctoral Program of Study, but they do count in computing the GPA. Please note that a "satisfactory" is only accepted for courses with no letter-grading option. Students must maintain a minimum cumulative and quarterly grade point average of 3.0 in all upper division (100 series) and graduate courses (200 series). Additionally, doctoral students must have a UCD cumulative graduate GPA of at least 3.25 to take the Qualifying Exam and advance to candidacy. Lower division courses are excluded in calculating the graduate GPA. They also do not count toward graduate fulfilling the Program of Study.

5. Required Forms to File

All relevant forms are listed in the CEE Guidance Manual for Graduate Students and their Advisers and department website: <http://cee.engr.ucdavis.edu/graduate-resources/> Submit all completed forms to the Graduate Coordinator and she will obtain the Graduate Adviser's signature for you before submitting to the appropriate campus parties for approval. Do not take forms directly to the Graduate Adviser to ask for signatures.