ENVIRONMENTAL ENGINEERING IN CIVIL ENGINEERING, PHD

for the degree of Doctor of Philosophy in Environmental Engineering in Civil Engineering

head of department: Benito J Marinas (marinas@illinois.edu)
director of graduate studies: Jeffery R Roesler (jroesler@illinois.edu)
overview of admissions & requirements: https://cee.illinois.edu/admissions/graduate/
overview of grad college admissions & requirements: https://grad.illinois.edu/admissions/apply
department website: https://cee.illinois.edu/ and https://cee.illinois.edu/environmental
program website: https://cee.illinois.edu/academics/graduate-programs/phd-degree-and-curriculum
department faculty: https://cee.illinois.edu/directory/faculty
college website: https://grainger.illinois.edu/
contact: Joan Christian (jchristn@illinois.edu)
address: 1108 Newmark Civil Engineering Lab, 205 N Mathews Ave, Urbana, IL 61801
phone: (217) 265-4496
email: civil@illinois.edu

The Department of Civil and Environmental Engineering, consistently ranked as having one of the best graduate programs in the country, offers graduate work leading to master’s and doctoral degrees. These are in a variety of specialized areas through departmental programs which are described on this page.

Opportunity exists for specializing in computational science and engineering via the Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering) optional graduate concentration.

Admission Requirements

The Department of Civil & Environmental Engineering accepts applications for admission to the graduate program for both fall and spring semesters.

Admission to the Graduate College with full status in environmental engineering in civil engineering is granted to graduates of accredited institutions whose requirements for the master’s degree are substantially equivalent to those of the University of Illinois, provided the applicant’s preparation is appropriate for advanced study in his or her chosen major field and his or her cumulative grade point average is at least 3.00 (A = 4.00). The Graduate Record Examination (GRE) (http://www.ets.org/portal/site/ets/menuitem.fab2360b1645a1de9b3a0779f1751509/?vgnextoid=b195e3b56f4f010VgnVCM10000022f95190RCRD) is required. For additional information, see the departmental Web site (http://cee.illinois.edu/programs/Grad/GradApps).

All applicants whose native language is not English are required to submit TOEFL (http://www.toefl.org) or International English Language Testing System (IELTS) (http://www.ielts.org) scores as evidence of English proficiency. Minimum admission requirements (https://

Information listed in this catalog is current as of 03/2020
Environmental Engineering in Civil Engineering, MS (http://catalog.illinois.edu/graduate/engineering/environmental-engineering-civil-engineering-ms)

optional concentrations:
- Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering)
- Civil Engineering, MS (http://catalog.illinois.edu/graduate/engineering/civil-engineering-ms)
  optional concentrations:
  - Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering)
- Civil Engineering, PhD (http://catalog.illinois.edu/graduate/engineering/civil-engineering-phd)
  optional concentrations:
  - Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering)

concentrations:
- Railway Engineering (http://catalog.illinois.edu/graduate/engineering/engineering-meng/railway)

available for:
- Engineering, MENG (http://catalog.illinois.edu/graduate/engineering/engineering-meng)

joint programs:
- Civil Engineering, MS & Architecture, MARCH (http://catalog.illinois.edu/graduate/engineering_faa/joint-degree/architecture-march-civil-engineering-ms), (Construction Management or Structures)
- Civil Engineering, MS & Urban Planning, MS (http://catalog.illinois.edu/graduate/faa/joint-degree/urban-planning-mup)

Opportunity also exists for specializing in energy and sustainability engineering via the

Energy and Sustainability Engineering (EaSE) Graduate Certificate Option (http://ease.illinois.edu)

for the degree of Doctor of Philosophy in Environmental Engineering in Civil Engineering

The degree of Doctor of Philosophy, primarily a research degree, requires from three to four years of graduate study beyond the master’s degree. The major area of specialization encompasses courses and research that are closely related, but the courses need not be offered by a single major department. Candidates must demonstrate a capacity for independent research by preparing an original thesis on a topic within the major field of study, must meet the qualifying requirements or examination in the area of specialization, and must pass both preliminary and final examinations.

For additional details and requirements refer to the department’s Graduate Handbook (http://cee.illinois.edu/online-graduate-handbook) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

Entering with an approved Master’s Degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 599</td>
<td>Thesis Research (min-max applied toward degree)</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Elective courses (subject to Other Requirements and Conditions below)</td>
<td>32</td>
</tr>
</tbody>
</table>

Total Hours 64

Other Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Requirements and Conditions</td>
<td>may overlap</td>
</tr>
<tr>
<td>A maximum of 8 hours of CEE 597 (or other independent study) may be applied toward the elective course work requirement; approval required.</td>
<td></td>
</tr>
<tr>
<td>There is no department-wide foreign language requirement. However, the faculties of some areas of specialization may require foreign language proficiency if essential to the conduct of research in that area.</td>
<td></td>
</tr>
<tr>
<td>64 graduate hours must be completed in residence.</td>
<td></td>
</tr>
<tr>
<td>A Masters degree is required for admission to the Ph.D. program.</td>
<td></td>
</tr>
<tr>
<td>Ph.D. exam and dissertation requirements:</td>
<td></td>
</tr>
<tr>
<td>Qualifying exam</td>
<td></td>
</tr>
<tr>
<td>Preliminary exam</td>
<td></td>
</tr>
<tr>
<td>Final exam or dissertation defense</td>
<td></td>
</tr>
<tr>
<td>Dissertation deposit</td>
<td></td>
</tr>
<tr>
<td>The minimum program GPA is 2.75.</td>
<td></td>
</tr>
</tbody>
</table>

Entering with an approved Baccalaureate Degree:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 599</td>
<td>Thesis Research</td>
<td>32-40</td>
</tr>
<tr>
<td></td>
<td>Elective Courses (subject to other requirements and conditions below)</td>
<td>56-64</td>
</tr>
</tbody>
</table>

Total Hours 96

Other Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Requirements and Conditions</td>
<td>may overlap</td>
</tr>
</tbody>
</table>

Information listed in this catalog is current as of 03/2020
A maximum of 8 hours of CEE 597 (or other independent study) may be applied toward the elective course work requirement; approval required.

There is no department-wide foreign language requirement. However, the faculties of some areas of specialization may require foreign language proficiency if essential to the conduct of research in that area.

64 graduate hours must be completed in residence.

24 credit hours must be in major field. 24 credit hours of elective coursework must be at the 500-level, with at least 12 hours in major field.

Ph.D. exam and dissertation requirements:

Qualifying exam

Preliminary exam

Final exam or dissertation defense

Dissertation deposit

The minimum program GPA is 2.75.

1 Qualifying Exam Information (http://cee.illinois.edu/academics/graduate-programs/phd-degree-and-curriculum)