MASTER OF SCIENCE (MS) DEGREE IN THE FIELD OF ENVIRONMENTAL ENGINEERING

Program Learning Outcomes for the MS Degree in the field of Environmental Engineering

Upon completing the MS degree in the field of Environmental Engineering, students will be able to:

1. Demonstrate a solid foundation in civil and environmental engineering at the graduate level.
2. Acquire advanced knowledge of the principles of civil and environmental engineering and apply them to advanced technical problems.
3. Conduct an independent research program.
4. Demonstrate professional written and oral communication skills.

Requirements for the MS Degree in the field of Environmental Engineering

The MS degree is a thesis master's degree. For general university requirements, please see Thesis Master’s Degrees (ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-thesis-masters-degrees). Students pursuing the MS degree in the field of Environmental Engineering must:

- Complete a minimum of 30 credit hours of graduate-level study (coursework at the 500-level or above) to satisfy degree requirements.
- Complete a minimum of 24 credit hours at Rice University from approved graduate-level courses and 6 credit hours of thesis research.
  - For students studying environmental engineering, this must include 1 course each in environmental chemistry, water treatment, hydrology, and air quality.
- Select a thesis committee according to department requirements and conduct original research in consultation with the committee.
- Present and defend in oral examination an approved research thesis.

Students take the oral exam only after the committee determines the thesis to be in a written format acceptable for public defense. Normally, students take two academic years and the intervening summer to complete the degree.

Students intending to extend their studies into the PhD degree program should note that the department does not grant an automatic (candidacy) MS degree to candidates who have not written a satisfactory master’s thesis.

Summary

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<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<td>Total Credit Hours Required for the MS Degree in the field of Environmental Engineering</td>
<td>30</td>
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conduct research in other countries in modern foreign languages and area studies for periods of 6 to 12 months.

- **DOE Computational Science Graduate Fellowship**: The Department of Energy Computational Science Graduate Fellowship (DOE CSGF) program provides outstanding benefits and opportunities to students pursuing doctoral degrees in fields of study that utilize high performance computing to solve complex problems in science and engineering.

- **DOD National Defense Science and Engineering Graduate Fellowship (NDSEG)**: it is a highly competitive portable fellowship that is awarded to US citizens and nationals who intend to pursue a doctoral degree in one of fifteen supported disciplines.

- **Pathways to Science**: it is a project of the Institute for Broadening Participation. The organization places emphasis on connecting underrepresented groups with STEM programs, funding, mentoring, and resources. Fellowships for masters and doctoral students are available, as is funding for travel and summer institutes.

**Student Clubs**

- **Civil and Environmental Department Graduate Student Association**: The main purpose of the club is to 1) foster better professional and personal relationships among students and between students and faculty members 2) provide a forum for concerns, both professional and personal, about graduate student life and 3) foster professional growth through mentoring, recruitment, and affiliate/internship relationships.

- **Earthquake Engineering Research Institute**: [http://eeri.rice.edu](http://eeri.rice.edu).
  The objective of this student chapter is to encourage, facilitate, and promote learning and interest among students in the field of earthquake engineering through interaction with professionals and experts and through interdisciplinary involvement.

**Additional Information**

For additional information, please see the Civil and Environmental Engineering website: [https://ceve.rice.edu/](https://ceve.rice.edu/)