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 environmental engineering at the graduate level.
2. Apply principles of environmental engineering and related knowledge to advanced technical problems.
3. Conduct independent research.
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 The MS degree is a thesis master's degree. For general university requirements, please see The General Announcements (GA) is the official Rice curriculum. As an additional resource for students, the department of Civil and Environmental Engineering publishes a graduate program handbook, which can be found here: https://gradhandbooks.rice.edu/2020_21/Civil_Environmental_Engineering_Graduate_Handbook.pdf. The MS degree is a thesis master's degree. For general university requirements, please see The General Announcements (GA) is the official Rice curriculum. As an additional resource for students, the department of Civil and Environmental Engineering publishes a graduate program handbook, which can be found here: https://gradhandbooks.rice.edu/2020_21/Civil_Environmental_Engineering_Graduate_Handbook.pdf.

Summary

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Total Credit Hours Required for the MS Degree in the field of Environmental Engineering

Policies for the MS Degree in the field of Environmental Engineering

Department of Civil and Environmental Engineering Graduate Program Handbook

Admission

Applicants pursuing graduate education in environmental engineering or hydrology should have a BS or BA degree in related areas of science and engineering and preparation in mathematics, science, and engineering or related courses. A BS degree in engineering or a degree in natural science is preferred.

Transfer Credit

For Rice University's policy regarding transfer credit, see Transfer Credit (https://ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-all-degrees/#transfer). Some departments and programs have additional restrictions on transfer credit. Students are encouraged to meet with their academic program's advisor when considering transfer credit possibilities.

Departmental Transfer Credit Guidelines

Students pursuing the MS degree in the field of Civil or Environmental Engineering should be aware of the following departmental transfer credit guidelines:

- No more than 2 courses (6 credit hours) of transfer credit from U.S. or international universities of similar standing as Rice may apply towards the degree.

Additional Information

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

Opportunities for the MS Degree in the field of Environmental Engineering

Fellowships and Opportunities

- NASA Internships: multiple opportunities are available for undergraduate and graduate students for spring and fall semesters, as well as year-long appointments.
- NRC Research Associateship Program: the National Academies of Sciences, Engineering, and Medicine offer paid postdoctoral, senior, and graduate fellowships.
• NASA Fellowships and other opportunities: NASA offers several internships, fellowships, and scholarships for both undergraduate and graduate students.

• NSF Graduate Research Fellowship Program (NSF-GRFP): provides fellowships to individuals selected early in their graduate careers based on their demonstrated potential for significant achievements in science and engineering.

• Fullbright-Hays Doctoral Dissertation Research Abroad Program (DDRA): provides grants to fund individual doctoral students to 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.

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.

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