DOCTOR OF PHILOSOPHY (PHD) DEGREE IN THE FIELD OF CHEMICAL ENGINEERING

Program Learning Outcomes for the PhD Degree in the field of Chemical Engineering

Upon completing the PhD degree program in the field of Chemical Engineering, students will be able to:

1. Demonstrate a solid foundation in the fundamentals of chemical engineering in four areas: applied mathematics, kinetics and reaction engineering, thermodynamics, and transport phenomena.
2. Apply advanced knowledge from several major areas of modern chemical engineering.
3. Conduct independent research by working on research projects, individually and in interdisciplinary groups.
4. Demonstrate professional written and oral communication skills.

Requirements for the MS Degree in Chemical Engineering

The MS degree is a thesis masters 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 program in Chemical Engineering must:

- Obtain permission by the department to apply for the program. Accepted candidates will be advised of degree requirements.
- Complete at least 18 approved advanced course credit hours with high standing.
- Submit an original research thesis.
- Defend the thesis in a public oral examination.
- Complete a teaching requirement.

Summary

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<th>Credit Hours</th>
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<td>Total Credit Hours for the MS Degree in the field of Chemical Engineering</td>
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Requirements for the PhD Degree in Chemical Engineering

For general university requirements, please see Doctoral Degrees (ga.rice.edu/graduate-students/academic-policies-procedures/regulations-procedures-doctoral-degrees). Students pursuing the PhD degree program in Chemical Engineering must:

- Pass qualifying examinations demonstrating a general understanding of reaction engineering, thermodynamics, transport phenomena, and applied mathematics.
- Prepare and present a thesis proposal.
- Complete a publishable thesis representing research that is an original and significant contribution to the field of chemical and biomolecular engineering.
- Pass a public oral examination in defense of the thesis.
- Fulfill a residency requirement.
- Complete a teaching requirement.

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Policies for the PhD Degree in the field of Chemical Engineering

Department of Chemical and Biomolecular Engineering Graduate Program Handbook

The General Announcements (GA) is the official Rice curriculum. As an additional resource for students, the department of Chemical and Biomolecular Engineering publishes a graduate program handbook, which can be found here:


Additional Information

For additional information, please see the Chemical and Biomolecular Engineering website: https://chbe.rice.edu/

Opportunities for the PhD Degree in the field of Chemical Engineering

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