Graduate Program Overview

The Department of Chemical and Biomolecular Engineering at the University of Houston continues to be one of the most productive graduate programs in the U.S. in terms of graduating doctorates. The recent data published by ACS in C&E News reveals that UH is ranked 18th in total number of graduates (12th during 2004/05) and 15th based on the number of PhDs graduated per full time faculty member (0.75). For a compiled list click here. (References: ACS News; Chemical Engineering Faculty Director, S. Joe Qin and J. Steven Swinnea, editors, AIChe, Wiley-Interscience, 2005-2006.)

The University of Houston offers several masters level programs in the chemical engineering discipline tailored for the working professional. Your interest may be to gain advanced training in process engineering, or to carry out research in advanced materials, bioengineering or, catalysis, or to take a smaller group of specialized courses to give you a competitive edge. Whatever your interest, the University of Houston’s Department of Chemical & Biomolecular Engineering has it for you. Many of the courses are taught in the later afternoon or evening and research projects can be conducted in the evening and weekends.

Download Program Information

Master’s Programs

- Master of Chemical Engineering (Non-Thesis)
  - A Master of Chemical Engineering (MChE) degree is offered as a non-thesis program for the working professional. Thirty credit hours (10 courses) of required and elective course are needed to complete the program which is geared for persons who plan careers in plant operations, design and management in the chemical process industry.
Master of Science

- This course based program is offered full-time or part-time, and intended for students with a Bachelor of Science in Chemical Engineering (or equivalent). This program focuses on advanced engineering fundamentals. Students with a B.S. degree in Chemical Engineering or related field must obtain 30 credit hours (10 courses) of core and elective courses to obtain a course-based M.S. degree. No financial aid is offered for M.S. students.

Doctor of Philosophy

In addition to continued study of a broad range of engineering fundamentals, candidates for the doctoral degree enjoy intensive exposure to a specific field of engineering research. Individual research is the major focal point for these students, who are expected to expand the frontiers of knowledge in their area of endeavor. Moreover, candidates learn and experience the general philosophy, methods, and concepts of research and scholarly inquiry, so that they may contribute after graduation to substantive issues completely unrelated to their doctoral research. Acceptance into the full-time Ph.D. program is generally accompanied by departmental financial support.

More info

© The University of Houston Cullen College of Engineering, Department of Chemical and Biomolecular Engineering