Cleveland State University
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Fenn College of Engineering

Master of Science in Chemical Engineering

INTRODUCTION

The Chemical Engineering program prepares students for careers in design, operation, research, or management. While graduates of this program traditionally find employment in the chemical and biomedical industries, chemical engineering graduates are also being employed in the areas of general manufacturing, bioengineering, energy management, microelectronics, and environmental engineering.

PROGRAM DESCRIPTION

The graduate program in chemical engineering provides advanced training in core areas and allows the student to take courses on an advanced level in specific areas of interest. This program is designed to meet the needs of both part-time and full-time students. It provides an opportunity for students to hold full-time employment and further their education on a part-time basis. Full-time students can complete the program in two years. The program meets the needs of students planning to continue their studies at the doctoral level as well as students terminating their formal studies at the Masters level.

Undergraduate students can also participate of an Accelerated Program leading to both, a bachelors and masters degree in Chemical Engineering. This program enables students to earn his/her undergraduate degree in four (4) years and a Masters degree in five (five) years of full-time enrollment.

RESEARCH and OTHER AREARS of DISTINCTION

Excellent facilities are available in support of student and faculty research. The department has a number of new instruments and research units. In addition, each research laboratory has appropriate instrumentation specific to the projects. Large-scale computational problems can be solved, via remote login, at national centers for supercomputer applications or with in-house resources. The support equipment in the department, along with faculty activity, provides outstanding research opportunities for graduate students. Students specializing in biomedical engineering can perform their research at the world-class research laboratories of the Cleveland Clinic Foundation.

DEGREE REQUIREMENTS

The graduate program consists of a minimum of 30 credit-hours, distributed as follows:

- Core courses (12 credits):
- Graduate Electives (9 credits)
- Thesis or Masters Project options (9 credits)

The Program offers tracks in (traditional) Chemical Process Design and in Biomedical Engineering.

The Master's Project option is designed to provide the student with a broader education in chemical engineering, as well as to expose the student to modern research techniques in the discipline. This option is intended for part-time students.

Applicants whose undergraduate backgrounds are in fields other than Chemical or Biomedical Engineering are required to enroll in a sequence of complementary courses referred to as the Preparatory Program.

For admission information contact:
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(216) 687-5599
www.csuohio.edu/gradcollege/

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