

Chemical Engineering - Master of Engineering

The Master of Engineering in Chemical Engineering offers a course-intensive program and culminating experience (internship, industrial practicum, or a non-thesis project). The mission of the program is to prepare graduates with the versatile skills and mindset to meet the needs of a demanding and dynamic career in the chemical industry and environmental agencies. Students have the opportunity to gain experience in areas ranging from biochemical and biomolecular engineering to environmental engineering, renewable energy, paper science and engineering, thermodynamics modeling, and finite-element simulation, among others.

Program Requirements

The total credits needed for the program is 30.

Code	Title	Credit Hours
Required Courses		
Select the following:		
CPB 611	Transport Phenomena in Engineering	3
CPB 612	Engineering Analysis	3
Chemical Engineering Course - select one of the following:		3-4
CPB 512	Chemical Engineering Thermodynamics	
CPB 514	Mass Transfer and Unit Operations	
CPB 515	Chemical Kinetics and Reactor Design	
Elective Courses		14 - 18
Any 500 or 600 level courses in CPB, CSE, ECE, or MME.		
Culminating Experience ¹		3-6
Select one of the following:		
CPB 640	Internship	
CPB 704	Non-Thesis Project	
CPB 710	Industrial Practicum	
Total Credit Hours		30

¹ Students must register for 3-6 credit hours of CPB 640, CPB 704, or CPB 710, which will serve as their culminating experience. The student will write a summary report and make a formal presentation, which should be evaluated and approved by a committee of a minimum of two (2) members with Miami University graduate level A or B standing.

Note: Applicants must have completed an undergraduate degree to enroll in this program, and no BS/MS double counting of courses is allowed.