

CHEMICAL ENGINEERING GRADUATE MAJOR (MENG, MS, PHD)

Graduate Areas of Concentration

Chemical engineering

The School of Chemical, Biological and Environmental Engineering offers graduate programs leading to the Master of Engineering, Master of Science, and Doctor of Philosophy degrees. All programs are tailored to individual student needs and professional goals. A diversity of faculty interests, broadened and reinforced by cooperation between the school and other engineering departments and schools and research centers on campus, makes tailored individual programs possible. The school originates and encourages programs ranging from those that are classically chemical engineering to those that are distinctly interdisciplinary.

For more information, contact the Graduate Programs Coordinator, School of Chemical, Biological and Environmental Engineering, Oregon State University, Corvallis, OR 97331-2904, 541-737-0479 or email cbee-gradinfo@enr.orst.edu

Major Code: 3030

MEng Degree

Code	Title	Credits
Required Core		
CBEE 507	SEMINAR (1 credit per term, 3 credits required)	3
CHE 514	FLUID FLOW	4
CHE 520	MASS TRANSFER I	4
CHE 525	CHEMICAL ENGINEERING ANALYSIS	4
CHE 537	CHEMICAL ENGINEERING THERMODYNAMICS I	4
CHE 540	CHEMICAL REACTORS I	4
Engineering Electives		
Graduate level courses offered through the College of Engineering		10
Electives		
Courses approved by graduate program advisor on Graduate Program of Study		12
Total Credits		45

MS Degree

Code	Title	Credits
Required Core		
CBEE 507	SEMINAR (1 credit per term, 3 credits required)	3
CHE 514	FLUID FLOW	4
CHE 520	MASS TRANSFER I	4
CHE 525	CHEMICAL ENGINEERING ANALYSIS	4
CHE 537	CHEMICAL ENGINEERING THERMODYNAMICS I	4
CHE 540	CHEMICAL REACTORS I	4
Electives		
Courses approved by student's MS Committee on Graduate Program of Study		minimum 13
Thesis		
CH 503	THESIS	9
Total Hours		45

PhD Degree

Code	Title	Credits
Required Core ¹		
CBEE 507	SEMINAR (1 credit per term, 3 credits required)	1
CHE 514	FLUID FLOW	4
CHE 520	MASS TRANSFER I	4
CHE 525	CHEMICAL ENGINEERING ANALYSIS	4
CHE 537	CHEMICAL ENGINEERING THERMODYNAMICS I	4
CHE 540	CHEMICAL REACTORS I	4
Minor Course Work/Electives		
Courses approved by student's PhD Committee on Graduate Program of Study		minimum 13
Thesis		
CHE 603	THESIS	36-72
Total Hours		108

Prerequisite and Corequisite Coursework for Non-engineering Undergraduates

MEng or MS students without undergraduate degrees in chemical engineering or a related engineering discipline, or PhD students without undergraduate degrees or graduate degrees in chemical engineering or a related engineering discipline, must take the following courses in addition to the CHE core:

Code	Title	Credits
CHE 312	CHEMICAL ENGINEERING THERMODYNAMICS	3
CHE 331	TRANSPORT PHENOMENA I	4
CHE 332	TRANSPORT PHENOMENA II	3
CHE 443	CHEMICAL REACTION ENGINEERING	4

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In addition to Graduate School mandated preliminary and final exams, PhD students in chemical engineering must successfully complete a qualifying exam, the details and timing of which can be found in the chemical engineering graduate student handbook

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