

CHEMICAL ENGINEERING - MASTER OF SCIENCE IN CHEMICAL ENGINEERING

The program of study leading to the MS consists of 32 credits which includes:

- required CHME core graduate courses (14 credits);
- CHME elective courses numbered 455-589 (3 credits);
- other graduate elective courses (9 credits); and
- thesis as CHME 599 Master's Thesis (6 credits).

Prefix	Title	Credits
Required Core Courses		
CHME 501	Graduate Thermodynamics for Chemical Engineers	3
CHME 506	Graduate Transport Phenomena(s) (Spring semester course)	3
CHME 516	Graduate Numerical Methods in Chemical Engineering	3
CHME 542	Graduate Reactor Analysis and Design (s) (Spring semester course)	3
CHME 594	Professional Communication in Chemical Engineering	2
Electives		
CHME electives (select from CHME 455-CHME 589)		3
Electives ¹		9
Master's Thesis		
CHME 599	Master's Thesis (minimum 6 credit hours before the thesis defense)	6
Total Credits		32

¹ Elective courses are intended to supplement the research work of each graduate student. These courses must be numbered 450 or above and must be approved by the thesis advisor.

First Year		
Fall		Credits
CHME 501	Graduate Thermodynamics for Chemical Engineers	3
CHME 516	Graduate Numerical Methods in Chemical Engineering	3
CHME Elective		3
Credits		9
Spring		
CHME 506	Graduate Transport Phenomena(s)	3
CHME 542	Graduate Reactor Analysis and Design (s)	3
CHME 594	Professional Communication in Chemical Engineering	2
CHME 599	Master's Thesis	1
Credits		9
Second Year		
Fall		Credits
CHME 599	Master's Thesis	3
Grad Electives		6
Credits		9

Spring		
CHME 599	Master's Thesis	2
Grad Elective		3
Credits		5
Total Credits		32