

## Course Requirements

### *Required Courses:*

Engr I1100	Engineering Analysis	3 credits
ChE I3300	Advanced Reaction Engineering	3 credits

### **One** of these two courses:

ChE I2800	Advanced Chemical Thermodynamics	3 credits
ChE I3200	Statistical Mechanics	3 credits

### **Two** of these three courses

Engr I0800	Foundations of Fluid Mechanics	3 credits
ChE I9100	Mass Transfer	3 credits
ME I3700	Convection Heat Transfer	3 credits

### *Elective Courses:*

#### One of these two:

ChE 57000	Seminar	1 credit
ChE 58990	Doctoral Dissertation Research	2 credits

For current electives see the graduate student bulletin. The following electives have been offered through the ChE Department. Please, check the current schedule for information as to which courses are offered in which semester.

ChE I3000	Chemical Process Simulation
ChE I5200	Powder Science and Technology
ChE I5500	Interfacial Phenomena
ChE I5700	Advanced Materials Engineering
ChE I5800	Molecular Simulation
ChE I5900	Nanotechnology
ChE I6100	Advanced Topics in Polymer Science
ChE I8600	Equilibrium Stage Separations
ChE I8800	Bioseparations
ChE I9000	Bioprocess Engineering
ChE G4000	Modeling in Chemical Engineering
ChE G1500	Rheology
ChE G1600	Energy Engineering Systems
ChE G1700	Polymer Processing
ChE G5500	Soft Materials Laboratory