

## Courses Offered >>

### Planned Course Offerings

Course	Fall	Spring	Summer
ECH 3023C Material and Energy Balances	X	X	
ECH 3242L Chem Eng Lab1	X		
ECH 4265C Mass Transfer Operations		X	X
ECH 4243L Chem Eng Lab2		X	
ECH 4415C Reaction Engineering	X		
ECH 4264 Transport Phenomena	X	X	
ECH 4123 Chem Eng Thermo	X	X	
ECH 4845 Numerical Methods	X	X	
EMA 4003 Intro to Materials Sci	X		
BME 4046 Engineering of Bio Syst		X	
ECH 3702 Instrument Systems		X	

ECH 4323C Process Dynamics and Control		X	
ECH 4605 Prod and Proc Syst Engg	X		
ECH 4615 Prod and Proc Design		X	

### Prerequisites for Chemical Engineering Courses

(Note: Co-req means other course must be taken at same time.

Co-Pre-req means other course must either be taken before or at same time)

Course	Prerequisite
ECH 3023C Material & Energy Balances	PHY 2049 Physics 2, CHM 2046 Chem 2, MAC 2283 Calc 3. EGN 3343 Thermo is Co-Pre-requisite
ECH 3242L Lab1	ECH 3023C M & E Balances, EGN 3443 Statistics, ENC 3246 Communications for Engineers
ECH 4265C Mass Transfer Operations	ECH 4123 Chem Eng Thermo, ECH 4264 Transport Phenomena, ECH 4845 Numerical Methods
ECH 4243L Lab2	ECH 4265C Mass Transfer Operations, ECH 3242L Lab1
ECH 4415C Reaction Engineering	ECH 4265C Mass Transfer Operations, CHM 2210 Organic Chemistry I
ECH 4264 Transport Phenomena	ECH 3023C M & E Balances, EGN 3343 Thermo, MAP 2302 Diff eqns or EGN 3433 Mod and Anal of Engg Sys
ECH 4123 Chemical Engg Thermo	ECH 3023C M & E Balances (Co-Pre-Req), EGN 3343 Thermo, MAP 2302 Diff eqns or EGN 3433 Mod & Anal of Engg Sys
ECH 4845 Numerical Methods	ECH 3023C M & E Balances, EGN 3343 Thermo, MAP 2302 Diff eqns or EGN 3433 Mod and Anal of Engg Sys
EMA 4003 Introduction to Materials	ECH 4123 Chem Eng Thermo

BME 4406 Engg of Biological Systems	CHM 2210 Organic Chem I (majors) or CI (non-majors)
ECH 3702 Instrument Systems	ECH 3023C M & E Balances, EGN 3343 Thermo, MAP 2302 Diff eqns or EGN 3433 Mod and Anal of Engg Sys
ECH 4323C Process Dynamics & Control	ECH 4265C Mass Transfer Operations, ECH 3702 Instrument Systems
ECH 4605 Product & Process Engg	ECH 4265C Mass Transfer Operations, ECH 4845 Num. Methods, ECH 4264 Transport Phenomena, or CI
ECH 4615 Product & Process Design	ECH 4415C Reaction Engineering, ECH 4605 Product and Process Engineering

