

## **Chemical Engineering**

- <u>Ch E 101: Introduction to Chemical Engineering</u>
- <u>Ch E 103: Introduction to Chemical Engineering I</u>
- <u>Ch E 104: Introduction to Chemical Engineering II</u>
- <u>Ch E 251: Programming for Chemical Engineering</u>
- <u>Ch E 307: Chemical Process Principles I</u>
  <u>Ch E 302: Chemical Process Principles II</u>
- <u>Ch E 308: Chemical Process Principles II</u>
- <u>Ch E 309: Intro to Chemical Engineering Design</u>
- Ch E 313: Modeling and Simulation I
- Ch E 314: Modeling and Simulation II
- <u>Ch E 317: Process Fluid Dynamics and Heat Transfer</u>
- Ch E 330: Chemical Eng. R & D Experience
- <u>Ch E 345: Engineering Economy</u>
- <u>Ch E 407: Chemical Engineering Projects I</u>
- <u>Ch E 408: Chemical Engineering Projects II</u>
- <u>Ch E 411: Chemical Engineering Seminar</u>
- <u>Ch E 412: Process Control and Safety</u>
- <u>Ch E 413: Chemical Process Safety</u>
- <u>Ch E 417: Separation Processes</u>
- <u>Ch E 421: Chemical Engineering Thermodynamics</u>
- Ch E 423: Chemical Reactor Analysis and Design
- <u>Ch E 431: ChE Mass and Energy Balance Lab</u>
- <u>Ch E 432: ChE Unit Operations Lab</u>
- <u>Ch E 433: ChE Design Lab</u>
- <u>Ch E 445: Chemical Engineering Lab I</u>
- Ch E 446: Chemical Engineering Lab II
- <u>Ch E 449: Process Design</u>
- <u>Ch E 450: Process Optimization</u>
- <u>Ch E 451: Plant Design I</u>
- <u>Ch E 452: Plant Design II</u>
- Ch E 460: Product Design I:Development, Evaluation
- Ch E 461: Product Design II: Product Realization
- Ch E 511: Process Dynamics and Control
- <u>Ch E 513: Special Topics in Chemical Engineering</u>
- <u>Ch E 515: Research Seminar</u>
- Ch E 520: Biochemical Engineering
- Ch E 521: Drug and Gene Delivery
- Ch E 522: Immunoengineering
- Ch E 523: Molecular and Cellular Biophysics
- <u>Ch E 524: Microscopy for Engineers</u>
- Ch E 528: Polymer Processing
- Ch E 530: Coal Utilization and Pollutants Control
- Ch E 535: Experimental Methods in Engineering
- Ch E 540: Coating Materials Process & Applications
- Ch E 541: Appl of Chemical Instrumentation I
- Ch E 542: Appl of Chemical Instrumentation II
- Ch E 543: Introduction to Polymer Science
- <u>Ch E 545: Colloid and Surface Science</u>
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- <u>Ch E 547: Sufactant Science and Applications</u>
- <u>Ch E 550: Membrane Science and Engineering</u>
- <u>Ch E 560: Advanced Transport Phenomena I</u>
- <u>Ch E 561: Advanced Transport Phenomena II</u>
- <u>Ch E 593: Graduate Projects in Chemical Engr</u>
- <u>Ch E 660: Advanced Transport Phenomena I</u>
- Ch E 661: Advanced Transport Phenomena II
- Engr 540: Environmental Organic Transport Phenomen
- Engr 542: Molecular Modeling of Nano Materials
- Engr 544: Synth and Fab of Nano Materials
- Engr 544. Synth and Fab of Nano Male
- Engr 545: Polymer Nanocomposites

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- Engr 630: Unit Process & Oper in Env Eng I
- Engr 633: Process Dynamics and Control I
- Engr 663: Advanced Rate and Equilibrium Processes
- Engr 665: Thermodynamics of Chemical Systems
- Engr 667: Mass Transfer I
- Engr 669: Chemical Reaction and Reactor Analysis I
- Engr 670: Chemical Reaction & Reactor Analysis II
- M E 555: Heating Ventilation and Air-Conditioning

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