

## **Chemical Engineering**

<u>Overview</u>

Academics & Admissions

**Programs** 

Courses

Faculty

## Courses

- Engr 321: Thermodynamics
- Engr 322: Transport Phenomena
- Engr 450: Product Design and Development
- <u>Ch E 101: Introduction to Chemical Engineering</u>
- <u>Ch E 251: Programming for Chemical Engineering</u>
- <u>Ch E 307: Chemical Process Principles I</u>
- <u>Ch E 308: Chemical Process Principles II</u>
- <u>Ch E 316: Chemical Engineering Fluid Mechanics</u>
- Ch E 317: Process Fluid Dynamics and Heat Transfer
- Ch E 318: Chem Engineering Heat and Mass Transfer
- Ch E 330: Chemical Eng. R & D Experience
- Ch E 345: Engineering Economy
- Ch E 407: Chemical Engineering Projects I
- Ch E 408: Chemical Engineering Projects II
- Ch E 411: Chemical Engineering Seminar
- Ch E 412: Process Control and Safety
- Ch E 413: Chemical Process Safety
- <u>Ch E 417: Separation Processes</u>
- Ch E 421: Chemical Engineering Thermodynamics
- Ch E 421: Chemical Englineering Thermodynamics
  Ch E 422: Chemical Register Analysis and Design
- <u>Ch E 423: Chemical Reactor Analysis and Design</u>
  <u>Ch E 431: ChE Mass and Energy Balance Lab</u>
- Ch E 431: ChE Mass and Energy Balance
  Ch E 422: ChE Unit Operations Lab
- Ch E 432: ChE Unit Operations Lab
- <u>Ch E 433: ChE Design Lab</u>
- <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: Product and Process Development</u>
- <u>Ch E 470: Principles of Lean Six Sigma</u>
- Ch E 511: Process Dynamics and Control
- Ch E 513: Special Topics in Chemical Engineering
- Ch E 515: Research Seminar
- Ch E 520: Biochemical Engineering
- Ch E 521: Drug and Gene Delivery
- <u>Ch E 522: Immunoengineering</u>
- Ch E 523: Molecular and Cellular Biophysics
- Ch E 524: Microscopy for Engineers
- Ch E 528: Polymer Processing
- Ch E 535: Experimental Methods in Engineering
- Ch E 540: Coating Materials Process & Applications
- Ch E 543: Introduction to Polymer Science
- Ch E 545: Colloid and Surface Science
- Ch E 547: Sufactant Science and Applications
- Ch E 550: Membrane Science and Engineering
- Ch E 560: Advanced Transport Phenomena I
- Ch E 561: Advanced Transport Phenomena II
- Ch E 593: Graduate Projects in Chemical Engr
- Ch E 660: Advanced Transport Phenomena I
- Ch E 661: Advanced Transport Phenomena II
- Engr 540: Environmental Organic Transport Phenomen
- Engr 542: Molecular Modeling of Nano Materials

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Engr 544: Synth and Fab of Nano Materials

Engr 545: Polymer Nanocomposites

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