<table>
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<th>Course Code</th>
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| ICE 100 | INTRODUCTION TO THE PROFESSION | 4.5 | CHE 202, CHE 239, ICE 301. 
| ICE 104 | INTRODUCTION TO COMPUTER PROGRAMMING FOR ENGINEERS | 3 | CHE 202, CHE 239. 
| ICE 202 | MATERIAL AND ENERGY BALANCES | 4.5 | CHE 113, CHE 202, ICE 301. 
| ICE 239 | MATHEMATICAL AND COMPUTATIONAL METHODS | 4.5 | CHE 202, CHE 239. 
| ICE 296 | INTRODUCTION TO IPRO | 1.5 | CHE 202, CHE 239. 
| ICE 301 | FLUID MECHANICS AND HEAT-TRANSFER OPERATIONS | 4.5 | CHE 202, ICE 252. 
| ICE 302 | MASS-TRANSFER OPERATIONS | 4.5 | CHE 301. 
| ICE 311 | FOUNDATIONS OF BIOLOGICAL SCIENCE FOR ENGINEERING | 4.5 | CHE 202, CHE 239. 
| ICE 317 | CHEMICAL ENGINEERING LABORATORY | 3 | CHE 202, ICE 252. 
| ICE 320 | TRANSPORTATION PHENOMENA | 4.5 | CHE 202, ICE 252. 
| ICE 322 | CHEMICAL ENGINEERING LABORATORY | 3 | CHE 202, ICE 252. 
| ICE 324 | CHEMICAL REACTION ENGINEERING | 4.5 | CHE 202, ICE 252. 
| ICE 326 | PROCESS MODELING AND SYSTEM THEORY | 4.5 | CHE 202, ICE 252. 
| ICE 328 | PROCESS CONTROL | 4.5 | CHE 202, ICE 252. 
| ICE 330 | NUMERICAL AND DATA ANALYSIS | 4.5 | CHE 202, ICE 252. 

IIT Chemical Engineering (ICE)
ICE 332 | CHEMICAL PROCESS THERMODYNAMICS | 3 quarter hours
(Undergraduate)
Second law analysis of cooling, separation, combustion, and other chemical processes. Chemical reaction equilibrium and processing applications. ICE 351 recommended.

ICE 334 | CHEMICAL PROCESS DESIGN | 4.5 quarter hours
(Undergraduate)
Introduction to design techniques and economic aspects of chemical processes. The technical and economic aspects of equipment selection and design, alternative methods of operation. (Taught at Illinois Institute of Technology as CHE 494) ICE 302, ICE 351 and ICE 326 recommended.

ICE 336 | STATISTICAL TOOLS FOR ENGINEERS | 4.5 quarter hours
(Undergraduate)
Descriptive statistics and graphs, probability distributions, random sampling, independence, significance tests, design of experiments, regression, time series analysis, statistical process control, and introduction to multivariate analysis (Taught at IIT as CHE 426).

ICE 338 | PROCESS DESIGN II | 4.5 quarter hours
(Undergraduate)
Group project in process design. Integration of technical, safety, environmental, economic, and societal issues in process development and design. Final part of the IPRO project package. Project teams consist of chemical engineering students and students from other disciplines and professions. Students from other academic units should register for designated section of IPRO 497 (three credits) and their contribution to the project tasks will be defined accordingly. (Taught at the Illinois Institute of Technology as CHE 496.) ICE 324, ICE 328 and ICE 334 are required prerequisites.

ICE 351 | CHEMICAL ENGINEERING THERMODYNAMICS | 4.5 quarter hours
(Undergraduate)
Laws of thermodynamics and their application to chemical engineering operations. (Taught at IIT as CHE 351) ICE 343 recommended.

ICE 352 | THERMODYNAMICS II | 4.5 quarter hours
(Undergraduate)
Second law analysis of cooling, separation, combustion, and other chemical processes. Chemical reaction equilibrium and processing applications (Taught at IIT as CHE 451).

ICE 383 | ELECTRIC AND ELECTRONIC CIRCUITS | 4.5 quarter hours
(Undergraduate)

ICE 397 | INTERPROFESSIONAL PROJECT | 4.5 quarter hours
(Undergraduate)
Interprofessional projects allow students to learn teamwork, leadership and project management skills, while working in multidisciplinary teams on projects involving technical, ethical, environmental, economic, public policy and legal issues. IPRO project teams are typically comprised of 6-10 students from sophomore through graduate level from all disciplines that can broadly contribute to a project effort. While every effort will be made to accommodate students’ first choices, it may be necessary to balance students across all projects that will be scheduled for the semester or to consolidate students into fewer projects to meet minimum team requirements. Specific rules about selection of IPRO projects may apply in certain degree programs. Some projects may carry Humanities or Social Sciences credit. Students must consult the lead faculty member for the project and their faculty advisor before registering for a project. (Taught at Illinois Institute of Technology as IPRO 397)