**University of Idaho**

# *CHEMICAL ENGINEERING 5-YEAR CURRICULUM*

## 2010-2011

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|---|---|---|
| Chem 111 Prin of Chem*.....4 | **First Year** | Chem 112 General Chem*.....5 |
| Math 170 Anal Geom & Calc I.....4 | | Math 175 Anal Geom & Calc II.....4 |
| Eng 102 Essay Writing.....3 | | Phys 211 Engr Phys I#.....3 |
| Hum/SS Elective…….....3-4 | | Hum/SS Elective…...……..…3-4 |
| **……..14-15** | | **.....14-15** |
| Chem 277 Organic Chem.....3 | **Second Year** | Chem 372 Organic Chem II.....3 |
| Chem 278 Organic Chem Lab.....1 | | Chem 374 Organic Chem II Lab.....1 |
| Phys 212 Engr Physics II#.....3 | | Engr 210*..……..……..……3 |
| ChE 110 Intro to Chem Engr ……1 | | Math 310 Ord Diff Equations*.....3 |
| Math 275 Anal Geom & Calc III*.....3 | | ChE 223 Matl & Energy Bal*.....3 |
| ChE 123 Computation in ChE ..……2 | | |
| **.....13** | | **.....13** |
| Chem 305 Phys Chem.....3 | | |
| Chem 307 Phys Chem Lab.....1 | **Third Year** | Engr 240 Intro to Elec Engr.....3 |
| Math Elective…….....3 | | Chem/Bioscience Elective……....4 |
| Engr 335 Fluid Mechanics*.....3 | | Econ Elective …….....3 |
| CS Elective …….....3 | | Engr 320 Thermo & Ht Trans*.....3 |
| **.....13** | | **.....13** |
| ChE 340 Trans & Rate Proc I.....4 | | ChE 341 Trans & Rate Proc II.....4 |
| Hum or SS Elective.....3 | **Fourth Year** | ChE 423 Reactor Kinetics & Des……..3 |
| ChE 326 Chem Engr Thermo.....3 | | Communication Elective…….2 |
| Technical Elective.....3 | | ChE 330 Separation Proc.....3 |
| **.....13** | | **.....12** |
| ChE 444 Process Anal.....3 | **Fifth Year** | ChE 445 Process Control.....3 |
| ChE 453 Chem Proc Anal & Design.....3 | | ChE 454 Chem Proc Anal & Design.....3 |
| ChE 491 Seminar.....1 | | Technical Elective.....….....3 |
| ChE 433 Trans & Rate Proc Lab.....1 | | Hum or SS Elective.....3 |
| ChE Elective.....3 | | ChE 434 Trans & Rate Proc Lab…..…1 |
| Elective (unspecified)**……..1 | | **……13** |
| **……...……12** | | |

Specified credits: 99; Humanity-Social Sciences credits: 15; Communication Elective (from core): 2 credits; Other unspecified (Math -3; Engr -3; ChE -3; Technical -3): 12 credits.

Classes marked with an asterisk (*) must ALL be completed with a grade of "C" or better in each one before registration is permitted in upper division engineering classes. Humanities and social electives (including Econ elective) must satisfy the university's general education core.

***# Physics labs are not required; enroll in 3 credit section (typically section 51 or 52) which do not include the lab.***
***** Need one credit to be a full-time student (can take -*-any-*- course to fulfill this credit).***

***REVISED 07/26/10***