

Chemical and Biological Engineering

2005-2007 Catalog

125.5 Total Credits

First Year

Semester 1

- 4 Chem 177 (Chemistry I)
- 1 Chem 177L (Chemistry Lab)
- 3 Engl 104 (English Comp I)
- R Engr 101 (Engineering Orientation)
- 3 Engr 160 (Engr Problem Solving)
- 0.5 Lib 160 (Library)
- 4 Math 165 (Calculus I)

15.5 Total Credits

Semester 2

- 3 Chem 178 (Chemistry II)
- 1 Chem 178L (Chemistry Lab)
- 3 Engl 105 (English Comp II)
- 4 Math 166 (Calculus II)
- 5 Phys 221 (General Physics I)

16.0 Total Credits

Sophomore Year

Semester 3

- 3 ChE 210 (Mat. & Energy Balances)
- 3 Chem 331 (Organic Chemistry)
- 4 Math 265 (Calculus III)
- 5 Phys 222 (Physics II)

15.0 Total Credits

Semester 4

- 3 ChE 356 (Transport Phenomena I)
- 3 Chem 332 (Organic Chemistry)
- 3 Chem 325 (Chemical Thermo)
- 4 Math 267 (Differential Equations)
- 3 SSH Elective

16.0 Total Credits

Junior Year

Semester 5

- 3 BBMB 301 (Biochemistry)
- 1 ChE 302 (Seminar)
- 3 ChE 310 (Numerical Methods)
- 3 ChE 357 (Transport Phenomena II)
- 3 ChE 381 (Chemical Engr Thermo)
- 3 Statistics Elective

16.0 Total Credits

Semester 6

- 3 ChE 358 (Separations)
- 2 ChE 325 (Chemical Engr Lab I)
- 3 ChE 382 (Chemical Reaction Engr)
- 3 Chemistry Elective
- 3 Communication Elective
- 3 SSH Elective

17.0 Total Credits

Senior Year

Semester 7

- 3 ChE 421 (Process Control)
- 3 Engineering Elective
- 3 Professional Elective
- 3 SSH Elective
- 3 SSH Elective

15.0 Total Credits

Semester 8

- 2 ChE 426 (Chemical Engr Lab II)
- 4 ChE 430 (Process & Plant Design)
- 3 Chemical Engineering Elective
- 3 Professional Elective
- 3 SSH Elective

15.0 Total Credits