

# CHEMICAL ENGINEERING

## 2004-2006 CATALOG

\*catalog valid until August 2012

### Suggested Arrangement of Courses for Eight Semester Program 129 credit hours

#### First Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
CH 302, <i>Principles of Chemistry II</i> .....	3	CH 204, <i>Introduction to Chemical Practice</i> .....	2
CHE 102, <i>Introduction to Chemical Engineering*</i> .....	1	M 408D, <i>Sequences, Series, and Multivariable Calculus</i> .....	4
M 408C, <i>Differential and Integral Calculus</i> .....	4	PHY 303K, <i>Engineering Physics I</i> .....	3
CHE 210, <i>Introduction to Computing</i> .....	2	PHY 103M, <i>Laboratory for Physics 303K</i> .....	1
RHE 306, <i>Rhetoric and Composition</i> .....	3	American Government <sup>1</sup> .....	3
Fine Arts/Humanities Elective <sup>1</sup> .....	3	BIO 211, <i>Introductory Biology: Cell Biology</i> <sup>2</sup> .....	2
TOTAL .....	15 or 16*	BIO 212, <i>Introductory Biology: Genetics and Evolution</i> <sup>2</sup> .....	2
		TOTAL .....	17

\*CHE 102 is not a degree requirement. Students who do not take this course will take 15 hours of coursework.

#### Second Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
CH 318M, <i>Organic Chemistry</i> .....	3	CH 318N, <i>Organic Chemistry</i> .....	3
CH 118K, <i>Organic Chemistry Laboratory</i> .....	1	CH 118L, <i>Organic Chemistry Laboratory</i> .....	1
CHE 317, <i>Intro to Chemical Engineering Analysis</i> .....	3	CH 353, <i>Physical Chemistry</i> .....	3
M 427K, <i>Advanced Calculus for Applications 1</i> .....	4	CHE 348, <i>Numerical Methods in CHE &amp; Problem Solving</i> .....	3
PHY 303L, <i>Engineering Physics II</i> .....	3	CHE 353, <i>Transport Phenomena</i> .....	3
PHY 103N, <i>Laboratory for Physics 303L</i> .....	1	E 316K, <i>Masterworks of Literature</i> .....	3
TOTAL .....	15	TOTAL .....	16

#### Third Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
CH 153K, <i>Physical Chemistry Laboratory</i> .....	1	CHE 253M, <i>Measurement, Control &amp; Data Analysis Lab</i> .....	2
CHE 322, <i>Thermodynamics</i> .....	3	CHE 363, <i>Separation Processes</i> .....	3
CHE 333T, <i>Engineering Communication</i> .....	3	EE 331, <i>Electrical Circuits, Electronics &amp; Machinery</i> .....	3
CHE 354, <i>Transport Processes</i> .....	3	Social Science Elective <sup>1</sup> .....	3
CHE 253K, <i>Applied Statistics</i> .....	2	American History <sup>1</sup> .....	3
Chemistry Elective <sup>1</sup> .....	4	Approved Technical Area Course <sup>1</sup> .....	3
TOTAL .....	16	TOTAL .....	17

#### Fourth Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
CHE 264, <i>Chemical Engineering Process &amp; Projects Lab</i> .....	2	CHE 360, <i>Process Control</i> .....	3
CHE 350, <i>Chemical Engineering Materials</i> .....	3	CHE 473K, <i>Process Design and Operations</i> .....	4
CHE 372, <i>Chemical Reactor Analysis and Design</i> .....	3	American History <sup>1</sup> .....	3
Approved Chemical Engineering Area Course <sup>1</sup> .....	3	Approved Chemical Engineering Area Course <sup>1</sup> .....	3
American Government <sup>1</sup> .....	3	Approved Technical Area Course <sup>1</sup> .....	3
Approved Advanced Math, Physics, Chemistry or Biology Elective <sup>1</sup> .....	3	TOTAL .....	16
TOTAL .....	17		

<sup>1</sup> Check with the Undergraduate Office (CPE 2.706) or online ([www.che.utexas.edu](http://www.che.utexas.edu)) for a list of approved courses.

<sup>2</sup> Starting Fall 2005, BIO 211 + BIO 212 will not be offered and will be replaced with BIO 311C