

DEPARTMENT OF CHEMICAL ENGINEERING
 University of North Dakota
 Program for Bachelor of Science in Chemical Engineering
 For Students entering Spring Semester 2005 or later

FIRST YEAR

<u>Fall Semester</u>	<u>Spring Semester</u>
Math 165 Calculus I*..... 4	Math 166 Calculus II*.....4
Chem 221/221L [#] Fund of Chem I*/Lab*.....3/1	ChE 102 Introduction to Chemical Engineering....2
Engl 110 College Composition I*.....3	Chem 222/222L [#] Fund of Chem II*/Lab*.....3/1
Arts/Humanities GER.....3	Phys 251 University Physics I*.....4
Social Science GER.....3	Arts/Humanities GER.....3
 Semester Total.....17	 Semester Total.....17

SECOND YEAR

Math 265 Calculus III*.....4	Math 266 Elementary Differential Equations.....3
ChE 201 Stoichiometry*.....3	Phys 252 University Physics II*.....4
Chem 341/341L Organic Chemistry I/Lab.....4/1	ChE 232 Chemical Engineering Laboratory I.....2
Engl 125 Technical and Business Writing*†.....3	Advanced Chemical Science Elective.....3
Econ 201 Principles of Microeconomics.....3	ChE 206 Unit Operations in Chemical Engr.....3
 Semester Total.....18	Engr 201 Statics..... 3
	 Semester Total.....18

THIRD YEAR

ChE 301 Transport Phenomena.....4	EE 206 Electrical Eng Fundamentals.....3
ChE 331 Chemical Engineering Laboratory II.....2	ChE 332 Chemical Engineering Laboratory III.....2
ChE 333 Basic Experimental Strategies.....1	ChE 403 Chemical Engineering Thermodynamics...4
Chem 465 Physical Chemistry II.....3	ChE 405 Separations.....3
Advanced Chemical Science Elective.....3	Engr 460 Engineering Economy.....3
Engineering Science Elective.....3	Technical Elective II.....3
 Semester Total.....16	 Semester Total.....18

FOURTH YEAR

ChE 408 Chemical Process Dynamics.....3	ChE 412 Chemical Engineering Plant Design II.....5
ChE 421 Chemical Engineering Reactor Design....3	Cultural Elective3
ChE 431 Chemical Engineering Laboratory IV.....3	Technical Elective I.....3
ChE 411 Plant Design I.....3	Social Science GER.....3
Technical Elective II.....3	 Semester Total.....14
 Semester Total.....15	

PROGRAM TOTAL.....133

[#] Chem 121/121L may be taken in lieu of Chem 221/221L and Chem 122/122L may be taken in lieu of Chem 222/222L with prior approval from Advisor

*Must be completed with grade of C or better prior to enrollment in Junior-level ChE courses.

†Engl 120 - College Composition II may be substituted.

