

2004-2005
CHEMISTRY MAJOR – BACHELOR OF ARTS DEGREE
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

MAJOR REQUIREMENTS	ALTERNATIVE SEQUENCE
---------------------------	-----------------------------

<i>Course</i>	<i>Title</i>	<i>Hrs</i>	<i>Tr</i>	<i>UD</i>
CHM 113	General Chemistry	4		
CHM 115	Gen Chem (or 116)	5		
CHM 325	Analytical Chem	3		
CHM 326	Analytical Chem Lab	1		
CHM 331	Gen Organic Chem	3		
CHM 335	Gen Org Chem Lab	1		
CHM 332	Gen Organic Chem	3		
CHM 336	Gen Org Chem Lab	1		
CHM 341	Elem Physical Chem	3		
CHM 343	Elem Phys Chem Lab	1		
CHM 453	Inorganic Chem	3		
CHM/BCH elective		2		

<i>Course</i>	<i>Title</i>	<i>Hrs</i>	<i>Tr</i>	<i>UD</i>
CHM 117	Gen. Chem Majors	4		
CHM 118	Gen Chem Majors	4		
CHM 317	Organic Chem Majors	3		
CHM 319	Org Chem Lab Majors	1		
CHM 318	Org Chem Majors II	3		
CHM 320	Org Chem Lab Maj II	1		

Electives: **CHM 302, 327, 392, 424, 431, 471, 480, 481, 485**
BCH 361

Related Courses

MAT 270	Calculus w/Geom.I	4		
MAT 271	Calculus w/Geom. II	4		
PHY 111	General Physics	3		
PHY 113	Gen. Physics Lab	1		
PHY 112	Gen. Physics	3		
PHY 114	Gen. Physics Lab	1		

Major must include minimum of 46 hours, 12 hours upper division at ASU, "C" minimum in all upper division courses

UNIVERSITY GENERAL STUDIES	COLLEGE OF LIBERAL ARTS & SCIENCES
-----------------------------------	---

First Year Comp ("C" minimum) _____

Literacy/Critical Inquiry (L) _____

Literacy/Critical Inquiry (L) (upper division) _____

Mathematical Studies (CS) _____

Mathematical Studies (MA) (satisfied by major)

Humanities/Fine Art (HU)

(6-9 hours, HU and SB must total 15 hours)

Social Behavioral Sciences (SB)

(6-9 hours, one HU or SB must be upper division)

HU and SB Awareness Areas (must cover all three)

Cultural (C) _____ Global (G) _____ Historical (H) _____

Second Language _____
 (proficiency through intermediate level, "C" min.)

Humanities (6 hours, upper division, choose from:
 AFH, CSH, ENG, HPS, HUM, PHI, REL, WSH)

All second language literature or civilization courses.

Can NOT double count with University General Studies.

Social Behavioral Sciences (6 hours, upper division
 choose from: AFS, ASB, CSS, ECN, GCU, HST, PGS,
 POS, SOC, WST **except for WST 413, 464 and 470**)

Can NOT double count with University General Studies.

Bridge Course (to view refer to:

<http://clas.asu.edu/students/roadmap/degreerequirements/>)

Natural Science/Mathematics (satisfied by major)

Required: 120 total hours, 45 upper division hours, 30 hours in residence at ASU, 2.00 minimum GPA

The schedule presented below is a model program of study that includes all the departmental requirements for courses in chemistry and related subjects. It presents a sequence that accommodates prerequisites for the required courses. Students and advisers should recognize that the order of courses in this outline is a model program and many other plans will work as well.

Year 1		Semester (Spring)	
Semester (Fall)	hours	Semester (Spring)	hours
CHM 113 General Chemistry	4	CHM 115 General Chemistry	5
MAT 270 Calculus I	4	MAT 271 Calculus II	4
PHY 111 General Physics	3	PHY 112 General Physics	3
PHY 113 General Physics Lab	1	PHY 114 General Physics Lab	1
ENG 101 First-year Comp.	3	ENG 102 First-year Comp.	3
*Non-major	<u>0-2</u> 15-17		<u>16</u>
Year 2		Semester (Spring)	
Semester (Fall)	hours	Semester (Spring)	hours
CHM 325 Analytical Chem.	3	CHM 332 General Organic Chem.	3
CHM 326 Analytical Chem. Lab	1	CHM 336 Organic Chem. Lab	1
CHM 331 General Organic Chem.	3		
CHM 335 Organic Chem. Lab	1		
*Non-major	<u>7-9</u> 15-17	*Non-major	<u>11-13</u> 15-17
Year 3		Semester (Spring)	
Semester (Fall)	hours	Semester (Spring)	hours
CHM 341 Elem. Physical Chem.	3	@ BCH/CHM elective	2
CHM 343 Physical Chem. Lab	1		
*Non-major	<u>11-13</u> 15-17	*Non-major	<u>13-15</u> 15-17
Year 4		Semester (Spring)	
Semester (Fall)	hours	Semester (Spring)	hours
CHM 453 Inorganic Chem.	3		
*Non-major	<u>12-14</u> 15-17	*Non-major	<u>15-17</u> 15-17

* Non-major courses: Courses that satisfy university general studies and College of Liberal Arts and Sciences graduation requirements and any other interests the student chooses to pursue.

@ May be taken any semester to complete the chemistry hours requirement. NOTE: only 2 hrs. of credit for CHM elective is required.