

2003-2004
CHEMISTRY MAJOR – Bachelor of Science Degree
 Department of Chemistry and Biochemistry

Major Requirements	Alternative sequence
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Course	Title	Hrs	Tr	UD
CHM 117	Gen Chem Majors	4		
CHM 118	Gen Chem Majors	4		
CHM 317	Org Chem Majors	3		
CHM 319	Org Chem Lab Majors I	1		
CHM 318	Org Chem Majors II	3		
CHM 320	Org Chem Lab Maj II	1		
CHM 240	Intro Phys Chem	3		
CHM 325	Analy Chem	3		
CHM 326	Analy Chem Lab	1		
CHM 327	Instr Analysis	3		
CHM 328	Instr Analysis Lab	2		
CHM 345	Phys Chem I	3		
CHM 348	Phys Chem Lab I	1		
CHM 346	Phys Chem II	3		
CHM 349	Phys Chem Lab II	1		
CHM 453	Inorg Chem	3		
CHM 452	Inorg Chem Lab	1		
CHM 460	Biological Chem	3		
CHM elective/choose from list		3		

Course	Title	Hrs	Tr	UD
CHM 113	Gen Chem	4		
CHM 115	Gen Chem (or 116)	5		
CHM 331	Gen Org Chem	3		
CHM 335	Gen Org Chem Lab	1		
CHM 332	Gen Org Chem	3		
CHM 336	Gen Org Chem Lab	1		

Electives: CHM 302, 392, 424, 431, 471, 480, 481, 485

Related Courses

MAT 270	Calculus w/Geom.I	4		
MAT 271	Calculus w/Geom. II	4		
MAT 272	Calculus w/Geom.III	4		
PHY 121	Univ. Physics I	3		
PHY 122	Univ. Physics Lab	1		
PHY 131	Univ. Physics II	3		
PHY 132	Univ. Physics Lab II	1		

Major must include minimum of 66 hours, 12 hours upper division at ASU, "C" minimum in all upper division courses

University General Studies	College of Liberal Arts & Sciences
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First Year Comp ("C" minimum) _____

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

Literacy/Critical Inquiry (L) _____
Literacy/Critical Inquiry (upper division satisfied by major)
Mathematical Studies (CS) (satisfied by CHM 240)

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.*

Mathematical Studies (MA) (satisfied by major)

Social Behavioral Sciences (6 hours, upper division
 choose from: AFS, ASB, CSS, ECN, GCU, HST/HIS
 PGS, POS, SOC, WST **except for WST 413, 464 and 470**)
Can NOT double count with University General Studies.

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)

Bridge Course (see <http://clasdean.la.asu.edu/student/resources/>)

Natural Science/Mathematics (satisfied by major)

HU and SB Awareness Areas (must cover all three)
 Cultural (C) _____ Global (G) _____ Historical (H) _____

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

CHEMISTRY MAJOR - BACHELOR OF SCIENCE DEGREE

CATALOG 2003-2004

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 (Fall)	hrs.	Semester (Spr.)	hrs.
CHM 117 Gen. Chem. - Majors	4	CHM 118 Gen. Chem. – Majors	4
MAT 270 Calculus w/Geom. I	4	MAT 271 Calculus w/Geom. II	4
		PHY 121 Physics	3
		PHY 122 Physics Lab	1
ENG 101 First-year Comp.	3	ENG 102 First-year Comp.	3
*Non-major	<u>4-6</u>	*Non-major	
	15-17		15

Year 2

Semester (Fall)	hrs.	Semester (Spr.)	hrs.
CHM 317 Org. Chem. - Majors	3	CHM 318 Org. Chem. - Majors	3
CHM 319 Org. Chem. Lab - Majors	1	CHM 320 Org. Chem. Lab - Majors	1
PHY 131 Physics	3	CHM 240 Intro Phys. Chem.	3
PHY 132 Physics Lab	1		
MAT 272 Calculus w/Geom.III	4		
*Non-major	<u>3-5</u>	*Non-major	<u>8-10</u>
	15-17		15-17

Year 3

Semester (Fall)	hrs.	Semester (Spr.)	hrs.
CHM 325 Analy. Chem.	3	CHM 327 Instr. Analysis	3
CHM 326 Analy. Chem. Lab	1	CHM 327 Instr. Analysis Lab	2
CHM 345 Phys. Chem. I	3	CHM 346 Phys. Chem. II	3
CHM 348 Phys. Chem. Lab I	1	CHM 349 Phys. Chem. Lab II	1
*Non-major	<u>7-9</u>	*Non-major	<u>6-8</u>
	15-17		15-17

Year 4

Semester (Fall)	hrs.	Semester (Spr.)	hrs.
CHM 453 Inorganic Chem.	3	CHM 460 Biological Chem.	3
		CHM 452 Inorg. Chem. Lab	1
		@ CHM elective	3
*Non-major	<u>12-14</u>	*Non-major	<u>9-11</u>
	15-17		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.