

Name _____ I.D. No. _____ Advisor _____

MAJOR REQUIREMENTS					UNIVERSITY AND COLLEGE REQUIREMENTS				
Course Prefix and #	Course Title	Sem Hrs	Tr	U D	Course Prefix and #	Course Title	Sem Hrs	Tr	U D
+CHM 117	Gen. Chem. - Majors	4			University General Studies				
+CHM 118	Gen. Chem. - Majors	4			First Year Composition (requires "C" minimum)				
=CHM 317	Org. Chem. - Majors	3							
=CHM 318	Org. Chem. - Majors	3							
=CHM 319	Org. Chem. Lab. - Majors	1			Literacy/Critical Inquiry (3 hrs must be upper division)				
=CHM 320	Org. Chem. Lab - Majors	1			L _____				
CHM 240	Intro Phys. Chem.	3			L _____				
CHM 325	Analy. Chem	3			Numeracy				
CHM 326	Analy. Chem. Lab	1			MA _____				
CHM 327	Instr. Analysis	3			CS _____				
CHM 328	Instr. Analysis Lab	2			Humanities/Fine Art HU (6 to 9 hours*)				
CHM 345	Phys. Chem. I	3			_____ (3)				
CHM 346	Phys. Chem. II	3							
CHM 348	Phys. Chem. Lab I	1							
CHM 349	Phys. Chem. Lab II	1			Social/Behavioral Sciences SB (6 to 9 hours**)				
CHM 452	Inorg. Chem. Lab	1			_____ (3)				
CHM 453	Inorg. Chem.	3							
CHM 460	Biological Chem.	3							
@CHM	Elective	2			Sciences				
Science & Math					SQ _____				
MAT 270	Calculus w/Geom. I	4			SG _____				
MAT 271	Calculus w/Geom. II	4			Awareness Areas				
MAT 272	Calculus w/Geom. III	4			Cultural © _____				
PHY 121	Physics	3			Global (G) _____				
PHY 122	Physics Lab	1			Historical (H) _____				
PHY 131	Physics	3			University Totals				
PHY 132	Physics Lab	1							
"C" or better in upper division courses in major					College Graduation Requirements				
Major Totals (65 hours required)					(You can NOT double count courses from College Graduation HU, SB & Nat. Sci. & Math areas with Univ. Gen. Studies HU, SB, SG or SQ areas)				
Electives					Second Language (4 th semester requires "C" minimum grade)				

					Humanities (6 to 9 hours*) 6 hrs. must be upper division				

					Social Behavioral Sciences (6 to 9 hours**) 6 hrs. must be upper division				

					Natural Sciences and Mathematics (6 to 8 hours)				

					College Totals				

					Total Hours (120 hours needed)				
					(45 total upper division hours needed)				
Elective Total					_____				

+Alternative general sequence: CHM 113, 115 or 113, 116

=Alternative organic sequence: CHM 331, 332, 335, 336

@CHM elective must be chosen from the following courses: CHM 302, CHM 392, CHM 424, CHM 431, CHM 471, CHM 480, CHM 481, CHM 485

Courses in computer programming (CSE 181 or 183) and statistics are strongly recommended.

*A total of 15 hours must be taken from both the University humanities/fine arts (HU) and CLAS humanities areas. A total of 6 hrs. upper division must be taken in CLAS humanities.

** A total of 15 hours must be taken from both the University Social/Behavioral Sciences (SB) and CLAS areas. A total of 6 hrs. upper division must be taken in CLAS social behavioral science

•Cumulative grade index required 2.00.

•30 hours required in residence at ASU; 12 hours upper division required in major at ASU

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	4	CHM 118	4
MAT 270	4	MAT 271	4
		PHY 121	3
		PHY 122	1
ENG 101	3	ENG 102	3
*Non-major	<u>4-6</u>		
	15-17		15
Year 2			
Semester (Fall)	hrs.	Semester (Spr.)	hrs.
CHM 317	3	CHM 318	3
CHM 319	1	CHM 320	1
PHY 131	3	CHM 240	3
PHY 132	1		
MAT 272	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	3	CHM 327	3
CHM 326	1	CHM 328	2
CHM 345	3	CHM 346	3
CHM 348	1	CHM 349	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	3	CHM 460	3
		CHM 452	1
		@ CHM elective	2
*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 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.