

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			<b>University General Studies</b>				
+CHM 118	Gen. Chem.-Majors	4			<b>First Year Composition</b> (requires "C" minimum)				
=CHM 317	Org. Chem.- Majors	3							
=CHM 318	Org. Chem. - Majors	3							
=CHM 319	Org. Chem. Lab - Majors	1			<b>Literacy/Critical Inquiry</b> (3 hrs must be upper division)				
=CHM 320	Org. Chem. Lab - Majors	1			L _____				
CHM 341	Elem. Phys. Chem.	3			L _____				
BCH 461	Gen. Biochemistry	3			<b>Numeracy</b>				
BCH 462	Gen. Biochemistry	3			MA _____				
BCH 463	Biophysical Chem.	3			CS _____				
BCH 464	Biophysical Chem. Lab	2			<b>Humanities/Fine Art HU</b> (6 to 9 hours*)				
BCH 467	Analy. Biochem. Lab	3			_____				
@	CHM/BCH Elective	3			_____ (3)				
<b>Science &amp; Math</b>					<b>Social/Behavioral Sciences SB</b> (6 to 9 hours**)				
BIO 193	Nat. Biol. Sci.	4			_____				
BIO 340	Gen. Genetics	4			_____				
BIO 353	Cell Biology	3			_____ (3)				
MAT 270	Calculus w/Geom. I	4			<b>Sciences</b>				
MAT 271	Calculus w/Geom. II	4			SQ _____				
PHY 121	Physics	3			SG _____				
PHY 122	Physics Lab	1			<b>Awareness Areas</b>				
PHY 131	Physics	3			Cultural (C) _____				
PHY 132	Physics Lab	1			Global (G) _____				
					Historical(H) _____				
"C" or better in upper division courses in major & related field					<b>University Totals</b>				
<b>Major Totals</b> (63 hours required)					<b>College Graduation Requirements</b>				
<b>Electives</b>					(You can <b>NOT</b> double count courses from <b>College Graduation</b> HU, SB & Nat. Sci. & Math areas with <b>Univ. Gen. Studies</b> HU,SB, SG or SQ areas)				
_____					<b>Second Language</b> (4 <sup>th</sup> semester requires "C" minimum grade)				
_____					_____				
_____					<b>Humanities</b> (6 to 9 hours*) 6 hrs. must be upper division				
_____					_____				
_____					<b>Social Behavioral Sciences</b> (6 to 9 hours**) 6 hrs. must be upper division				
_____					_____				
_____					<b>Natural Sciences and Mathematics</b> (6 to 8 hours)				
_____					_____				
_____					<b>College Totals</b>				
_____					<b>Total Hours (120 hours needed)</b>				
<b>Elective Total</b>					(45 total upper division hours needed)				

+Alternative general sequence: CHM 113, 115 or 113, 116  
 =Alternative organic sequence: CHM 331, 332, 335, 336  
 @CHM/BCH electives must be chosen from the following courses: BCH 392, BCH 494 (Topics in Protein Biochemistry), BCH 494 (Topics in Nucleic Acids Biochemistry), CHM 327, CHM 424, CHM 431, CHM 453, CHM 471, CHM 481, CHM 485  
 Additional biology courses selected from the following; BIO 343, 351, 360, 441, 446, 450 and 465 are strongly recommended. Other biology courses may be substituted.  
 \*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
ENG 101	3	ENG 102	3
*Non-major	<u>4-6</u>	*Non-major	<u>4-6</u>
	15-17		15-17

Year 2

Semester (Fall)	hrs.	Semester (Spr.)	hrs.
BIO 193	4	BIO 340	4
CHM 317	3	CHM 318	3
CHM 319	1	CHM 320	1
PHY 121	3	PHY 131	3
PHY 122	1	PHY 132	1
*Non-major	<u>3-5</u>	*Non-major	<u>3-5</u>
	15-17		15-17

Year 3

Semester (Fall)	hrs.	Semester (Spr.)	hrs.
BIO 353	3	BCH 462	3
CHM 341	3	BCH 463	3
BCH 461	3	BCH 467	3
*Non-major	<u>6-8</u>	*Non-major	<u>6-8</u>
	15-17		15-17

Year 4

Semester (Fall)	hrs.	Semester (Spr.)	hrs.
BCH 464	2	@CHM/BCH elective	3
*Non-major	<u>13-15</u>	*Non-major	<u>12-14</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 3 hrs. of credit for CHM/BCH elective is required.