

**Four Year Curriculum Plan Template, Catalog Term: Fall 2011****Major: SC60 - BS,Biochemistry**

Select Catalog term to view: Fall 2011

<b>Year One</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CHM211 Principles of Chemistry I	3 hours	CHM212 Principles Chemistry II	3 hours
CHM217 Principles of Chem Lab I	2 hours	CHM218 Principles of Chem Lab II	2 hours
Composition: ENG101 English Composition I (or equivalent) - or ENG200H in Fall 2	3 hours	Mathematics: MTH122 Plane Trigonometry - if MTH 140 is taken or Elective (Elective can be used toward 2nd major, minor, or certificate)	3 hours
FYS 100: FYS100 First Year Seminar	3 hours	CT Designated Course:	3 hours
Mathematics: MTH 140 (3 hrs) or 229 (5 hrs)*	3-5 hours	BSC 120***	4 hours
<b>Recommended Hours:</b>	<b>14/16 hours</b>	<b>Recommended Hours:</b>	<b>15 hours</b>
<b>Year Two</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CHM355 Organic Chemistry I	3 hours	CHM356 Organic Chemistry II	3 hours
Composition: ENG201 Advanced Composition - or ENG200H	3 hours	CHM361 Intro Organic Chm Lab	3 hours
CT Designated Course:	3 hours	Communication: CMM103 Fund Speech-Communication - or equivalent	3 hours
BSC 121***	4 hours	BSC 322***	4 hours
Elective (Can be used toward 2nd major, minor, or certificate)	2 hours	Elective (Can be used toward 2nd major, minor, or certificate)	3 hours
<b>Recommended Hours:</b>	<b>15 hours</b>	<b>Recommended Hours:</b>	<b>16 hours</b>
<b>Year Three</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CHM365 Introductory Biochemistry	3 hours	CHM366 Intro Biochemistry Lab	2 hours
PHY201 General Physics	3 hours	CHM467 Intermediate Biochemistry	3 hours
PHY202 General Physics Lab	1 hours	PHY203 General Physics	3 hours
Social Science:	3 hours	PHY204 General Physics Lab	1 hours
Literature Elective	3 hours	Humanities:	3 hours
300 - 499 level CHM Elective**	3 hours	MultiCult or Int:	3 hours
<b>Recommended Hours:</b>	<b>16 hours</b>	<b>Recommended Hours:</b>	<b>15 hours</b>
<b>Year Four</b>			
<b>Fall Semester</b>		<b>Spring Semester</b>	
CHM345 Intro to Analytical Chem	4 hours	BSC324 Principles of Genetics	4 hours
Writing Intensive:	3 hours	CHM307 Intro Physical Chemistry	4 hours
Capstone: CHM491	2 hours	CHM432 Chemistry Seminar	0 hours
BSC 450***	3 hours	Writing Intensive:	3 hours
Elective (Can be used toward 2nd major, minor, or certificate)***	3 hours	Fine Arts: ART112, MUS142, or THE112	3 hours
<b>Recommended Hours:</b>	<b>15 hours</b>	<b>Recommended Hours:</b>	<b>14 hours</b>
<b>Other Requirements:</b>			
Minimum Number of Hours to Graduate:	120/122		
Minimum GPA to Graduate:	2.0 in all required CHM courses and all CHM courses taken at MU		
Other:			
*If the MTH ACT score is less than 20, students take MTH 098 <b>or</b> MTH 099 <b>then</b> MTH 127 <b>then</b> 122 <b>then</b> 140 based on placement; if the MTH ACT score is 20, students take MTH 127 <b>then</b> MTH 122 <b>then</b> MTH 140; if the MTH ACT score is 21 to 23, students take MTH 130 <b>then</b> MTH 122 <b>then</b> MTH 140; if the MTH ACT score is 24 to 26, students take MTH 140 <b>then</b> MTH 122; if the MTH ACT score is 27 or greater, students may take MTH 140 <b>and</b> MTH 122 <b>or</b> MTH 229.			
**A list of approved upper-level CHM electives is available on the CHM website ( <a href="http://www.marshall.edu/chemistry/">www.marshall.edu/chemistry/</a> ).			
***Completion of the BSC requirements listed above and an additional 1 credit hour provides a minor in Biological Sciences.			
<b>NOTES:</b>			
1. A minimum of <b>120</b> hours with <b>40</b> credit hours at the 300 - 499 level is required for graduation.			
2. Core I courses include 3 hours of First Year Seminar (FYS) and 6 hours of Critical Thinking. Core II requires a minimum of 25 hours of 100 - 200 level courses including 6 hours of English Composition; 4 hours of Natural or Physical Science; and 3 hours of Communication, Fine Arts, Humanities, Mathematics, and Social Sciences. The College of Science requires 3 hours of Calculus which satisfies the Core II Mathematics requirement, Literature, 8 additional hours of Natural or Physical Science, and 40 hours of upper level credit.			
3. Students are required to complete a minor degree program outside the Department of Chemistry. Consult catalog for discipline specific requirements. Note that students double majoring are not required to have a minor.			
4. Coursework listed as Elective may vary for each student. Students are strongly encouraged to use elective hours toward a 2nd major, minor or			

certificate program. Depending on the path chosen, students may not have electives because programs vary in length and minors range from 12 to 18 hours. Students should see advisors in S213/214 to select a path leading to completion of the program selected. These selections must be approved.

5. Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the College of Science literature requirement as well as the Core II writing intensive requirement or an international or multicultural social science course could satisfy both the international or multicultural Core II requirement as well as the social science Core II requirement. See course attributes each semester for courses that meet two or more Core or College requirements.
6. If students follow this graduation plan and do not withdraw or fail classes, or change majors, they can graduate in four academic years. It is not necessary to take the courses in the specific order shown, however if students deviate from the courses approved in the mandatory advising sessions each semester, students may not be able to graduate in four years in accordance with the graduation plan.
7. Course offerings are subject to change semesters. Please consult each semesters schedule of courses for availability.