

**Four Year Curriculum Plan Template, Catalog Term: Fall 2011****Major: SC10 - BS, Chemistry**

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
FYS 100: FYS100 First Year Seminar	3 hours		Communication: CMM103 Fund Speech-Communication - or equivalent	3 hours
Mathematics: MTH140 (3 hrs) or MTH229 (5 hrs)*	3-5 hours		Mathematics: MTH122 Plane Trigonometry - if MTH 140 is taken or Elective (Elective can be used toward 2nd major, minor, or certificate)	3 hours
CT Designated Course:	3 hours		CT Designated Course:	3 hours
<b>Recommended Hours:</b>	<b>14/16 hours</b>		<b>Recommended Hours:</b>	<b>14 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
PHY201 General Physics	3 hours		CHM361 Intro Organic Chm Lab	3 hours
PHY202 General Physics Lab	1 hours		PHY203 General Physics	3 hours
Composition: ENG101 English Composition I (or equivalent) - or ENG200H in Spring 2	3 hours		PHY204 General Physics Lab	1 hours
Science Electives***	4 hours		Composition: ENG201 Advanced Composition - or ENG200H	3 hours
			Science Electives***	4 hours
<b>Recommended Hours:</b>	<b>14 hours</b>		<b>Recommended Hours:</b>	<b>17 hours</b>
<b>Year Three</b>				
<b>Fall Semester</b>			<b>Spring Semester</b>	
CHM305 Chemical Info Retr/Sci Ethics	1 hours		CHM307 Intro Physical Chemistry	4 hours
CHM345 Intro to Analytical Chem	4 hours		Writing Intensive:	3 hours
Fine Arts: ART112, MUS142, or THE112	3 hours		300 - 499 level Science Electives***	8 hours
Writing Intensive:	3 hours			
Elective (Can be used toward 2nd major, minor, or certificate)	3 hours			
300 - 499 level CHM Elective**	3 hours			
<b>Recommended Hours:</b>	<b>17 hours</b>		<b>Recommended Hours:</b>	<b>15 hours</b>
<b>Year Four</b>				
<b>Fall Semester</b>			<b>Spring Semester</b>	
CHM448 Adv Inorganic Chemistry I	4 hours		CHM432 Chemistry Seminar	0 hours
Capstone: CHM491	2 hours		Humanities:	3 hours
Literature Elective	3 hours		Social Science:	3 hours
300 - 499 level Science Electives***	4 hours		MultiCult or Int:	3 hours
			300 - 499 level Science Electives***	4 hours
			Elective (Can be used toward 2nd major, minor, or certificate)	3 hours
<b>Recommended Hours:</b>	<b>13 hours</b>		<b>Recommended Hours:</b>	<b>16 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 (www.marshall.edu/chemistry/).				
***Recommended Science Electives: BSC 300, 301, 302, 304, 310, 322, 442, and CHM 365.				
<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.
  8. See the [Pre-Professional website](#) for more information on course selections.