

CHEMISTRY MAJOR (2020 Catalog)
Bachelor of Science Degree – ACS Certified
 126 Semester Hours Minimum

Name _____

Campus Address _____ Phone _____

Second Major _____ Minor 1 _____ Minor 2 _____

Transferred _____ credits from _____ Advisor _____

Chemistry Courses

CHEM 1110 General Chemistry I 4 _____

CHEM 1120 General Chemistry II 4 _____

OR

CHEM 1130 Gen. Chemistry I-II 5 _____

CHEM 2010 Chemical Safety 1 _____

CHEM 2110 Descriptive Inorg Chem 4 _____

CHEM 2210 Organic Chemistry I 3 _____

CHEM 2220 Organic Chemistry II 3 _____

CHEM 2230 Organic Chem. Lab 2 _____

CHEM 2310 Chromatog. and Quant. 4 _____

CHEM 4310 Instrumental Analysis 4 _____

CHEM 4420 Physical Chemistry I 3 _____

CHEM 4430 Physical Chemistry II 3 _____

CHEM 4440 Physical Chem. Lab 2 _____

CHEM 4510 Biochemistry I 3 _____

CHEM 4110 Inorganic Chemistry 3 _____

CHEM 4610 Adv. Synthesis Lab 2 _____

CHEM3600 Undergraduate Research 2 _____

 x C. Quantitative Techniques 3 hrs

Satisfied by MATH 1420 4 hrs

_____ D. Dimensions of Wellbeing 2 hrs

Category 2: Civilizations and Cultures (9 hrs)

_____ A. Humanities (take 2 of I, II, and III)

3 hrs

3 hrs

_____ B. Non-Western Cultures 3 hrs

Category 3: Fine Arts, Literature, Philosophy and Religion (6 hrs)

_____ A. Fine Arts 3 hrs

_____ B. Lit, Philosophy, or Religion 3 hrs

Category 4: Natural Science and Technology (7 hrs)

_____ A. Life Sciences 3 hrs

 x B. Physical Sciences 4 hrs

Satisfied by CHEM 1110 or CHEM 1130

Elective

3000/4000 level Chemistry course 3 _____

Category 5: Social Science (9 hrs)

_____ A. Soc. & Historical Perspectives 3 hrs

_____ B. Individual & Institutional Perspectives 3 hrs

_____ C. Diversity & Global Issues 3 hrs

Math and Physics Courses

MATH 1420 Calculus I 4 _____

MATH 1421 Calculus II 4 _____

PHYSICS 1701 Physics I 4 _____

PHYSICS 1702 Physics II 4 _____

OR

PHYSICS 1511 General Physics I 4 _____

PHYSICS 1512 General Physics II 4 _____

Category 6: Capstone (2 hrs)

_____ Capstone

7 hours satisfied

37 hours needed

Total: 63-66 hours

Liberal Arts Core

Category I: Core Competencies (12 hrs)

_____ A. Reading and Writing 3 hrs

_____ B. Speaking and Listening 3 hrs

SAMPLE PLAN OF STUDY FOR THE B.S. MAJOR IN CHEMISTRY
An average of 15.75 credits per semester is needed to graduate in 8 semesters

FRESHMAN YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM1110	General Chemistry I	4	CHEM 1120	General Chemistry II	4
MATH 1420	Calculus I	4	MATH 1421	Calculus II	4
	Liberal Arts	<u>6</u>		Liberal Arts	<u>6</u>
		14			14

SOPHOMORE YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 2210	Organic Chemistry I	3	CHEM 2220	Organic Chemistry II	3
CHEM 2310	Chromatog. and Quant. Analysis	4	CHEM 2230	Organic Chemistry Laboratory	2
PHYSICS 1701	Physics I	4	CHEM 2110	Descriptive Inorganic Chemistry	4
	Liberal Arts	<u>6</u>	CHEM 2010	Chemical Safety	1
		17	PHYSICS 1702	Physics II	4
				Liberal Arts/Electives	<u>3</u>
					17

JUNIOR YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 4420	Physical Chemistry I	3	CHEM 4430	Physical Chemistry II	3
CHEM 4310	Instrumental Analysis	4	CHEM 4440	Physical Chemistry Laboratory	2
CHEM 4510	Biochemistry I	3	CHEM 4110	Inorganic Chemistry	3
	Liberal Arts/ Electives	<u>6</u>		Liberal Arts/Electives	<u>7</u>
		16			15

SENIOR YEAR

<u>FALL</u>			<u>SPRING</u>		
CHEM 4610	Advanced Synthesis Laboratory	2	CHEM 3600	Undergraduate Research	1
CHEM 3600	Undergraduate Research	1	3000/4000 level	Chemistry Elective	3
	Liberal Arts/Electives	<u>14</u>		Liberal Arts/Electives	<u>12</u>
		17			16

	<u>Total Hours</u>
Liberal Arts	37 hours
Major	63-66 hours
University Electives/Minor	<u>23-26 hours</u>
	126 hours minimum

ADVISING NOTE: This is a sample plan of study only. There are a variety of alternative schedules for completing the B.S. Chemistry. Please consult with an advisor in the Department of Chemistry and Biochemistry to plan a schedule tailored for your needs.