



# SUGGESTED FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN CHEMISTRY

## Freshman Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 101 General Chemistry I.....	4	CHEM 102 General Chemistry II.....	4
MATH 161 Calculus I.....	4	MATH 162 Calculus II.....	4
PHYS 121 College Physics I*.....	4	PHYS 122 College Physics II*.....	4
WRIT 101 Foundations of Academic Discourse.....	3	HUMA 102 Civ and the Biblical Revelation.....	3
PHYE 100 Healthful Living.....	<u>1</u>	General Elective.....	<u>1</u>
	16		16

## Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 227 Analytical Chemistry.....	4	CHEM 231 Descriptive Inorg/Bioinorganic Chemistry.....	2
CHEM 235 Chemistry in Context.....	1	CHEM 242 Organic Chemistry II.....	4
CHEM 241 Organic Chemistry I.....	4	CHEM 245 Introduction to Molecular Modeling.....	2
MATH 261 Calculus III.....	4	HUMA 202 Civilization and Literature.....	3
HUMA 200 Western Civilization.....	<u>3</u>	SSFT Course.....	2
	16	General Elective.....	<u>3</u>
			16

## Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 345 Microscopic Physical Chemistry.....	4	CHEM 346 Macroscopic Physical Chemistry.....	4
COMP 155 Introduction to Computer Science.....	3	HUMA 303 Christianity and Civilization.....	3
HUMA 301 Civilization and the Arts.....	3	Chemistry Elective.....	2
Foundations of Social Science Course.....	3	General Electives.....	<u>7</u>
General Elective.....	<u>3</u>		16
	16		

## Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 422 Inorganic Synthesis Laboratory.....	2	CHEM 406 Instrumental Analysis.....	4
CHEM 431 Advanced Inorg/Organometallic Chemistry....	2	Chemistry Electives.....	4
CHEM 488 Chemistry Seminar.....	1	General Electives.....	<u>8</u>
Chemistry Electives.....	4		16
General Electives.....	<u>7</u>		
	16		

The schedule above satisfies the 128 required credit hours for graduation.

Students may choose a concentration area in the chemistry major:

ACS Certified: CHEM 351, 463, and four additional hours of Chemistry electives.

Biochemistry: CHEM 351, 352, and two additional hours of Chemistry electives.

Computational Modeling<sup>^</sup>: COMP 220, 222; CHEM 445, 471, and eight additional hours of Chemistry electives.

<sup>^</sup>Note: This concentration requires 18 hours of study.

Physical: CHEM 441, 445, and six additional hours of Chemistry electives.

Synthetic: CHEM 453, 458, and six additional hours Chemistry electives.

\*Students choosing to take PHYS 101 and 102 for their physics requirement should check with his/her advisor for schedule planning.

Students should be aware that some elective courses are only available in specific semesters - each student should check with his/her academic advisor accordingly.