



SAMPLE FOUR-YEAR PLAN for the  
BACHELOR OF SCIENCE IN  
BIOCHEMISTRY with a CHEMICAL SYNTHESIS CONCENTRATION

**Freshman Year**

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 111 General Chemistry I.....	3	CHEM 112 General Chemistry II.....	3
CHEM 113 General Chemistry I Lab.....	1	CHEM 114 General Chemistry II Lab.....	1
BIOL 101 General Biology I.....	4	CHEM 141 Beginning Biochemistry.....	2
MATH 161 Calculus I.....	4	MATH 162 Calculus II.....	4
Writing Requirement or HUMA Course.....	3	Writing Requirement or HUMA Course.....	3
HUMA 100 The Humanities: Christian Wisdom.....	<u>1</u>	General Electives.....	<u>2</u>
	16		15

**Sophomore Year**

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 235 Chemistry in Context.....	1	CHEM 231 Descriptive Inorg/Bioinorg Chemistry.....	2
CHEM 241 Organic Chemistry I.....	4	CHEM 242 Organic Chemistry II.....	4
BIOL 233 Genetics.....	4	BIOL 234 Cell Biology.....	4
HUMA Course .....	3	HUMA Course .....	3
PSYC 201 Statistical Methods.....	<u>3</u>	Foundations of Social Science Course.....	<u>3</u>
	15		16

**Junior Year**

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 227 Analytical Chemistry.....	4	CHEM 352 Biochemistry II.....	4
CHEM 351 Biochemistry I.....	4	PHYS 122 College Physics II.....	4
PHYS 121 College Physics I.....	4	CHEM 342 Physical Chemistry of Biological Systems.....	4
HUMA Course .....	3	SSFT Course.....	2
General Elective.....	<u>2</u>	General Elective.....	<u>3</u>
	17		17

**Senior Year**

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 422 Inorganic Synthesis Laboratory.....	2	CHEM 487 Biochemistry Seminar.....	1
CHEM 431 Adv. Inorganic/Organometallic Chemistry.....	2	CHEM 453 Adv. Molecular Spectroscopy.....	2
CHEM 451 Biochemistry: Data & Analysis.....	3	CHEM 458 Adv. Synthesis Laboratory.....	2
HUMA Course .....	3	HUMA 300 Gospel and the Good Life: Christian Ethics.....	2
General Electives.....	<u>6</u>	General Electives.....	<u>9</u>
	16		16

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

There is a great deal of flexibility in the Junior and Senior years.

Students should be aware that some electives are only available in specific semesters.