

## CHEMISTRY MAJOR WITH PRE-MEDICINE MAJOR

Four Year Plan

*for students starting in odd years*

**This is a suggested program guide. It is not to be interpreted as a contract. Changes may occur. Please see your program advisor before you register for courses.** updated 6/24

YEAR	FALL	SPRING
First Year	BENV 100 Becoming a Scholar 3 <b>(CPS 108 Computer Programming 3)</b> <b>CEM 121 General Inorganic Chemistry 1 5</b> <b>MAT 135 Calculus 1 5</b> Total 16	Writing Well Competency 3 Speaking and Listening Competency 3 <b>CEM 122 General Inorganic Chemistry 2 5</b> <b>MAT 136 Calculus 2 5</b> Total 16
Second Year	Reading the Bible Competency 3 <b>BIO 230 Human Anatomy &amp; Physiology 1 4</b> <b>CEM 221 Organic Chemistry 1 4</b> <b>PHY 211 Physics for Science/Engineering 1 5</b> Total 16	Understanding Self and Society Competency 3 <b>BIO 231 Human Anatomy &amp; Physiology 2 4</b> <b>CEM 222 Organic Chemistry 2 4</b> <b>PHY 212 Physics for Science/ Engineering 2 5</b> Total 16
Third Year	Creative Expression Competency 3 BENV 200 Learning in Community 5 <b>CEM 330 Advanced Inorganic Chemistry* 4</b> <b>CEM 360 Instrumental Analysis* 4</b> Total 16	Religious Understanding Competency 3 BENV 300 Cross-cultural Experience 3 <b>BIO 301 Microbiology 4</b> <b>BIO 315 Immunology* 3</b> <b>CEM 311 Advanced Organic Chemistry* 2</b> Total 15
Fourth Year	Living Well Competency 2-3 Exploring the Past Competency 3 <b>BIO 303 Genetics 4</b> <b>CEM 326 Physical Chemistry 1* 5</b> Total 14-15	BENV 400 Enduring Values Capstone 2 <b>CEM 341 Biochemistry* 3</b> <b>CEM 327 Physical Chemistry 2* 5</b> <b>CEM 230 Analytical Chemistry 4</b> Total 14

124 total hours to complete graduation requirements (this includes 2 hours of arts and lecture credit)

**Boldface** print denotes major course requirement

**Bold and italic** – extra courses for pre-medicine.

\*Alternate year courses

( ) Electives that are very strongly recommended

The following courses are strongly recommended as electives

MAT 225	Multivariate Calculus	3
MAT 230	Linear Algebra	3
MAT 350	Differential Equations and Modeling*	3

**Note:** The Scientific Inquiry and Critical Analysis Competencies are met by the major.