

BACHELOR OF SCIENCE IN BIOCHEMISTRY

(130 credit hours required)

NAME \_\_\_\_\_

DATE \_\_\_\_/\_\_\_\_/\_\_\_\_

**RELIGION CORE**

**DEVELOPING BIBLICAL FAITH/LIFESTYLE**

- BIBL-110 Message of the New Testament (3) ..... ( )
- BIBL-111 Message of the Old Testament (3)..... ( )
- THEO-230 Intro. to Theology (3)..... ( )
- THEO-231 Intro. to Christian Ethics (3)..... ( )
- RELG-200 Bibl/Theo. Foundations for Benevolence (1) ( )
- Christian Service (2)\* ..... ( )

SUBTOTAL (15 hours) ..... \_\_\_\_\_

\*Christian Service is not a course; the credit hours are earned by a combination of class, group, and individual service learning experiences.

**GENERAL EDUCATION CORE**

**ACQUIRING FUNDAMENTAL ACADEMIC SKILLS**

ENGL-105 (4) and ENGL-110 (3)..... ( ) ( )

OR ENGL-106 (3) and ENGL-110 (3)

OR ENGL-110 (3) [Depends on placement]

CISS-101 Intro to Computer-Based Systems (3) ..... ( )

GNST-101 Freshman Seminar: Gateway (2) ..... ( )

**EXPLORE THE HUMANITIES**

HUMN-201 Foundations of Western Culture (3) ..... ( )

**Two of the following (6)**

HUMN-202 Rise of Europe (3) ..... ( ) ( )

HUMN-301 Foundations of Modern World (3)

HUMN-302 Modern Western Culture (3)

HIST-221 / 222 Western Civilization I, II (3) (3)

ENGL-221 Western Lit: Ancient to Renaissance (3)

ENGL-222 Western Lit: Enlightenment to Postmodern (3)

**One of the following (3)**

ARTS-244 / 245 Art History I, II (3) (3) ..... ( )

MUHL-211 Music in Culture (3)

PHIL-241 Introduction to Philosophy (3)

THEA-201 Theatre in Culture (3)

**UNDERSTANDING CONTEMPORARY SOCIETY**

HIST-212 Recent American History (3)

OR

POLS-250 American Government (3) ..... ( )

**Two of the following (6)**

PSYC-200 Understanding Human Behavior (3)..... ( ) ( )

SOCI-200 Understanding Contemporary Society (3)

ECON-200 Understanding Economic Issues (3)

**RESPECTING THE NATURAL WORLD**

PHED-100 Healthy & Effective Lifestyles (1) ..... ( )

**SEEKING A GLOBAL PERSPECTIVE**

ANTH-200 Global Perspectives Seminar (1)..... ( )

GNST-250-253 Cross Cultural Experience (1-3)..... ( )

LING-201 Intro Language and Culture (3)..... ( )

SUBTOTAL (35/41 hours) ..... \_\_\_\_\_

**SPECIALTY AREA \***

CHEM-111 General Chemistry I (4) ..... ( )

CHEM-112 General Chemistry II (4) ..... ( )

CHEM-281 Organic Chemistry I (3) ..... ( )

CHEM-282 Organic Chemistry II (3) ..... ( )

CHEM-289 Organic Chemistry Lab (3) ..... ( )

CHEM-321 Biochemistry I (3)..... ( )

CHEM-322 Biochemistry II (3)..... ( )

CHEM-323 Biochem. Synthesis & Molecular Biol. (3). ( )

CHEM-329 Biochemistry Lab (3)..... ( )

CHEM-351 Quantitative Analysis (4)..... ( )

CHEM-431 Physical Chemistry I (3)..... ( )

CHEM-432 Physical Chemistry II (3)..... ( )

CHEM-439 Physical Chemistry Research (3) ..... ( )

SUBTOTAL (42 hours) ..... \_\_\_\_\_

**COLLATERAL REQUIREMENTS \***

BIOL-109 Principles of Biology I (4) ..... ( )

BIOL-242 Genetics (4) ..... ( )

BIOL-495 Science and Scripture (3) ..... ( )

PHYS-281 General Physics I (4)..... ( )

PHYS-282 General Physics II (4)..... ( )

MATH-261 Elem. Probability & Statistics (4)..... ( )

MATH-271 Calculus I (4)..... ( )

Biology Electives (6)

Select course offerings in Biology at the 300-level or above (BIOL-303, 403, and 495 do not count)

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

SUBTOTAL (33 hours) ..... \_\_\_\_\_

**GENERAL ELECTIVES**

**(upper-level biology courses recommended)**

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

SUBTOTAL (0/5 hours) ..... \_\_\_\_\_

**ACADEMIC ASSESSMENT**

GNST-400 Academic Assessment (0) ..... ( )

**\* A grade of C- or above is required to fulfill the Specialty Area and Collateral Requirements in this major.**

## SUGGESTED FOUR YEAR SEQUENCE OF STUDY FOR BACHELOR OF SCIENCE IN BIOCHEMISTRY

(The two-hour Christian Service requirement is not listed, but is spread throughout the four years.)

### FRESHMAN YEAR

<u>Course</u>	<u>Hours</u>
College Writing/Workshop .....	3/4
Rhetoric and Research .....	3
General Chemistry .....	8
Message of New and Old Testament .....	6
Freshman Seminar: Gateway .....	2
Calculus I .....	4
Healthy Lifestyles .....	1
Intro to Computer Based Systems .....	3
U S History/Government Option.....	3
Total	33/34

### JUNIOR YEAR

<u>Course</u>	<u>Hours</u>
Probability & Statistics .....	4
Quantitative Analysis .....	4
Physical Chemistry I .....	3
Global Perspectives Seminar.....	1
Cross-Cultural Experience .....	1/3
Contemporary Society Option 1 .....	3
Biochemistry II .....	3
Biochemical Synthesis/Molecular Biol .....	3
Biochemistry Lab .....	3
Biology Electives.....	6
Total	31/33

### SOPHOMORE YEAR

<u>Course</u>	<u>Hours</u>
Bib/Theo. Foundations of Benevolence .....	1
Intro. to Theology .....	3
Intro. to Christian Ethics.....	3
Organic Chemistry .....	9
General Physics.....	8
Principles of Biology I.....	4
Genetics.....	4
Biochemistry I .....	3
Total	35

### SENIOR YEAR

<u>Course</u>	<u>Hours</u>
Foundations of Western Culture .....	3
Humanities Option .....	3
Physical Chemistry II .....	3
Physical Chemistry Research .....	3
Science and Scripture (Capstone) .....	3
Contemporary Society Option 2.....	3
Humanities Options.....	6
Language and Culture .....	3
Electives.....	4
Total	31