

BACHELOR OF SCIENCE IN BIOCHEMISTRY
(PRE-MEDICAL, PRE-DENTAL, PRE-VET, OR PRE-PHARMACOLOGY EMPHASIS)
(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)	()

EXPLORING 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)	()
THEA-331 / 332	Survey of Drama Literature I, II (3) (3)	
MUHL-211	Music in Culture (3)	
PHIL-241	Introduction to Philosophy (3)	

UNDERSTANDING CONTEMPORARY SOCIETY

HIST-212	Recent American History & Government (3)	
OR		
POLS-200	Understanding Contemporary Politics (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)	()
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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	Biochemistry III (3).....	()
CHEM-329	Biochemistry Lab (3).....	()
CHEM-351	Quantitative Analysis (4).....	()
CHEM-431	Physical Chemistry I (3).....	()
CHEM-439	Physical Chemistry Research (3)	()

SUBTOTAL (39 hours) _____

COLLATERAL REQUIREMENTS*

BIOL-109	Principles of Biology I (4)	()
BIOL-242	Genetics (4)	()
BIOL-285	Pre-professional Seminar (2).....	()
BIOL-403	Molecular Biology (4)	()
HSCI-495	Faith and Practice (3)	()
PHYS-281	General Physics I (4).....	()
PHYS-282	General Physics II (4).....	()
MATH-144	Pre-calculus (4)**	()
MATH-261	Elem. Probability & Statistics (4).....	()
MATH-271	Calculus I (4).....	()

Choose one elective from the following courses (2 – 4 hrs):

BIOL-306	Comparative Vertebrate Anatomy (4)	
BIOL-351	Human Physiology (3)	
BIOL-405	Virus Biology (2)	
BIOL-431	Structural Histology (3)	
BIOL-432	Immunology (3).....	()

SUBTOTAL (39/41 hours) _____

**MATH-111/112 may substitute for MATH-144

GENERAL ELECTIVES

(upper-level biology courses recommended)

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SUBTOTAL (0/2 hours) _____

ACADEMIC ASSESSMENT

GNST-400	Academic Assessment (0)	()
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* Must earn a grade of B- or better to fulfill all specialty area and collateral requirements in this major.

**SUGGESTED FOUR YEAR SEQUENCE OF STUDY FOR
BACHELOR OF SCIENCE IN BIOCHEMISTRY
(Pre-Medical, Pre-Dental, Pre-Vet, or Pre-Pharmacology)**

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

FRESHMAN YEAR

Course	Hours
College Writing/Workshop	3/4
Rhetoric and Research	3
General Chemistry	8
Message of New and Old Testament.....	6
Freshman Seminar: Gateway	2
Pre-Calculus*.....	4
Calculus I.....	4
Healthy Lifestyles.....	1
Intro to Computer-Based Systems.....	3
Total	<u>34/35</u>

JUNIOR YEAR

Course	Hours
Probability & Statistics	4
Pre-professional Seminar	2
Molecular Biology	4
Quantitative Analysis	4
Biology Elective.....	2/4
Global Perspectives Seminar.....	1
Cross-Cultural Experience	1/3
Contemporary Society Option 1	3
Language and Culture	3
Biochemistry	9
Total	<u>33/36</u>

SOPHOMORE YEAR

Course	Hours
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.....	3
Biochemistry	3
Total	<u>34</u>

SENIOR YEAR

Course	Hours
Foundations of Western Culture	3
Humanities Option	3
Physical Chemistry	3
Physical Chemistry Research.....	3
Faith and Practice (Capstone)	3
U S History/Politics Option.....	3
Contemporary Society Option 2.....	3
Humanities Options.....	6
General Electives	2
Total	<u>29</u>

*MATH-111/112 may be substituted.