

Major: BIOLOGICAL SCIENCE
Concentration: PREMED/PRE-HEALTH CARE PROFESSIONAL (BPRE)
B.S. Degree (132 minimum required for graduation)



2015-16 Degree Requirements

General Education	Bible/Theology	Major / Concentration
GNST 102 First Yr Sem (see catalog or advisor) 1	BBST 103 Biblical Interpretation & Spiritual Formation 3	BIOS 111 General Biology I.....3
Behavioral Science 3	BBST 105 Foundations of Christian Thought..... 3	BIOS 113 General Biology I Lab.....1
ANTH 200 General Cultural Anthropology	BBST 109 Old Testament History & Literature 3	BIOS 112 General Biology II.....3
PSYC 200 Introduction Psychology	BBST 110 New Testament History & Literature..... 3	BIOS 114 General Biology II Lab.....1
SOCI 220 Intro to Sociology or 362 Social Problems	BBST 251 Theology I..... 3	BIOS 200 Sophomore Writing Seminar 1
Communication 3	BBST 254 Theology II..... 3	BIOS 281 Physiol or 282 Micro or 380 Adv Micro or 382 Vert Phys 4
COMM 100 Introduction to Public Communication	BBST 306 Early Christian History – Acts 3	BIOS 312 Cell and Molecular Biology..... 3
COMM 170 Small Group Communication	BBST 300/400 Elective..... 3	BIOS 322 Lab in Cell and Molecular Biology 2
COMM 181 Intro to Argumentation & Debate	BBST 300/400 Elective..... 3	BIOS 332 Genetics..... 4
COMM 280 Oral Interpretation	BBST 465 Integration Seminar# 3	BIOS 401 General Ecology 4
English	Total Bible credits 30	BIOS 450 Dir Research or 470 Sem in Adv Biology 1
ENGL 100 or 112 Critical Thinking & Writing I..... 3	(30 credits maximum except Bible or Christian Min majors)	BIOS Elective^ 4
ENGL 113 Critical Thinking & Writing II..... 3	#One additional Integ Sem may be taken to fulfill one 300/400 BBST elective	BIOS Elective (Upper Division)^ 4
Fine Arts** 3	(maximum 6 credits of Integration Seminar).	BIOS Elective (Upper Division)^ 4
ARTS 100 Art Apprec, 107, 108, 110, 111, 210, 211, 213, 221	Minor / Support / Electives	BIOS Elective (Upper Division)^ 4
COMM 160 Theatre Appreciation	_____	CHEM 105 General Chemistry I 4
MUSC 101 Music Apprec, 001, 002, 003, 005, 007, 008, 010, 012	_____	CHEM 106 General Chemistry II 4
Foreign Language* 4-6	_____	CHEM 301 Organic Chemistry I..... 3
(based on number of years taken in high school)	_____	CHEM 302 Organic Chemistry II..... 3
HUFF (French) 101	_____	CHEM 311 Laboratory in Organic Chemistry I 1
HUFFS (Spanish) 101	_____	CHEM 312 Laboratory in Organic Chemistry II 1
HUFFA (ASL) 101	_____	MATH 101 Precalculus or 105 Calculus I or
HUFRR (other languages) 101	_____	210 Prob & Stats or 318 Biostatistics 4/3
BLGR (Greek) 101, 102 (must take 6 credits)	_____	PHSC 111 & 117 Physics I & Lab..... 4
BLHE (Hebrew) 101, 102 (must take 6 credits)	_____	PHSC 112 & 118 Physics II & Lab..... 4
History	_____	Writing Competency Requirement 0
HIST 108 or 109 U. S. History or POSC 225 American Govt..... 3	_____	Total Credits of Biology 41
HIST 207 or 208 World Civilizations I, II 3	_____	Total Credits in Supporting Sciences 27
Literature 3	_____	Total Major Credits Required 70
ENGL 220 Film and Literature	_____	^See Department for list of classes
ENGL 230 Literature in Context	_____	Degree Summary
ENGL 251/252/253 British Literature I, II, III	_____	G.E. Requirements 32
ENGL 281/282 American Literature I, II	_____	Bible Requirements..... 30
ENGL 283 Race & Ethnicity in American Literature	_____	Major Requirements 70
ENGL 290 World Literature	_____	Support/Electives*
Philosophy 3	_____	Minimum Required for Graduation 132
PHIL 210 Introduction to Logic	_____	(Total is 135 if foreign language needs to be taken.)
PHIL 211/212/213 Ancient, Medieval, Modern Phil	_____	
PHIL 214 Introduction to Philosophy	_____	
PHIL 215 Introduction to Ethics – <u>strongly recommended</u>	_____	
PHIL 216 Introduction to Philosophy & Aesthetics	_____	
Physical Education 4	_____	
PEED 101, 110, 130, 140, 150	_____	
At least 3 credits of Math must be taken within the major.	_____	
Total General Education credits..... 32/36*	_____	

*If two years of the same foreign language were not taken in high school, four credits at college level will be required for graduation.

Foreign Language – 1 yr high school = take 101. 2 yrs high school = none needed.

**Fine Arts: ARTS 100, COMM 160 and MUSC 101 may be transferred from other colleges; art studio courses must be taken at Biola.

Suggested Course Schedule

B.S. Degree

YEAR	FALL	SPRING
FRESHMAN	_____ BBST 103/105 Bible Interp & Spir Form / Found Christian Thought.....3 _____ BIOS 111/113 General Biology I, Lab4 _____ CHEM 105 General Chemistry I with Lab.....4 _____ ENGL 100 or 112 Critical Thinking and Writing I3 _____ P.E. Activity1 _____ GNST 102 First Year Seminar.....1 16	_____ BBST 103/105 Bible Interp & Spir Form / Found Christian Thought3 _____ BIOS 112/114 General Biology II, Lab4 _____ CHEM 106 General Chemistry II with Lab4 _____ ENGL 113 Critical Thinking and Writing II.....3 _____ P.E. Activity1 15
SOPHOMORE	_____ BBST 109 Old Testament History and Literature.....3 _____ BBST 251 Theology I3 _____ BIOS 281 Physiol or 282 Microbiol or 380 Adv Microbiol or 382 Vert Physiol.....4 _____ CHEM 301 Organic Chemistry I.....3 _____ CHEM 311 Laboratory in Organic Chemistry I1 _____ MATH 101 or 105 or 210 or 3184/3 18/17	_____ BBST 110 New Testament History and Literature3 _____ BIOS 200 Sophomore Writing Seminar1 _____ BIOS Elective4 _____ CHEM 302 Organic Chemistry II3 _____ CHEM 312 Laboratory in Organic Chemistry II.....1 _____ Communication COMM 100, 170, 181, 280.....3 _____ Fine Arts (See list on reverse side)3 18
JUNIOR	_____ BBST 300/400 Bible Elective.....3 _____ BIOS 312 Cell and Molecular Biology3 _____ BIOS Elective (Upper Division)4 _____ PHSC 111 & 117 Physics I & Lab3,1 _____ HIST 108 or 109 U.S. History or POSC 225 American Government3 17	_____ BBST 254 Theology II.....3 _____ BIOS 322 Cell and Molecular Biology Lab2 _____ PHSC 112 & 118 Physics II & Lab3,1 _____ Behavioral Sci ANTH 200, PSYC 200, SOCI 220 or 362.....3 _____ Literature ENGL 220, 230, 251, 252, 253, 281, 282, 283, 2903 _____ P.E. Activity1 _____ Writing Competency Requirement0 16 _____ Graduation Petition due in the Registrar's Office
SENIOR	_____ BBST 306 Early Christian History – Acts3 _____ BIOS 401 General Ecology4 _____ BIOS 450 Directed Research or 470 Sem in Adv Biology1 _____ BIOS 332 Genetics (offered only Fall semesters)4 _____ BIOS Elective (Upper Division)4 16	_____ BBST 300/400 Bible Elective.....3 _____ BBST 465 Integration Seminar.....3 _____ BIOS Elective (Upper Division)4 _____ HIST 207 or 208 World Civilizations.....3 _____ Philosophy PHIL 210, 211, 212, 213, 214, 215* , 216.....3 _____ P.E. Activity1 17

If two years of the same foreign language were not taken in high school, four credits at college level will be required for graduation.

*Strongly recommended

It is possible to make the load lighter each semester if courses are taken during Interterm or Summer Session.

The eight credits of general education math/science requirement are met by the completion of the major.

NOTE: This degree requirement sheet is designed with your major department and is one way that the classes will work out properly in sequence for your major. However, there are alternative flexible ways to rotate some of the classes within the same year/level and sometimes between year levels. Please contact your major department advisor to discuss flexible alternatives in scheduling the sequence of your classes.