# Biology - Environmental Science

## Major Requirements

Lower Division Requirements	Pre-Req	Units	Note
BIO146 General Biology I w/Lab	-	4	Fall only
BIO148 General Biology II w/Lab	-	4	Spring only
CHE115 General Chemistry I w/Lab	CHE102 or HS Chem	4	Fall only
CHE125 General Chemistry II w/Lab	CHE115	4	Spring only
MAT145 Math Methods in Natural Sciences	MAT115 or 135	4	Spring only
or MAT245 Analytical Geometry & Calculus I	MAT135 or 145	4	

Lower Division Physics Requirements	Pre-Req	Units	Note
Complete one of the following two-semester sequence	es:		
PHY114 General Physics I w/Lab	MAT145 or 245	4	Fall only (entrance exam)
PHY124 General Physics II w/Lab	PHY114	4	Spring only
PHY214 Physics for Scientists I w/Lab	MAT145 or 245	4	Fall only (entrance exam)
PHY224 Physics for Scientists II w/Lab	PHY214	4	Spring only

Upper Division Requirements	Pre-Req	Units	Note
BIO313 Genetics	BIO146	4	Spring only
BIO330 Cell & Molecular Biology w/Lab	BIO146 & 148	4	Fall only
BIO380 Biology Seminar	-	1	Spring only
BIO499 Biology Capstone	Pre or Co: BIO380	2	Fall only
CHE351 Organic Chemistry I w/Lab	CHE125	4	Fall only
CHE352 Organic Chemistry II w/Lab	CHE351	4	Spring only

Concentration Requirements	Pre-Req	Units	Note
BIO114 General Botany w/Lab	-	4	Spring only
BIO302 Ecology w/Lab	BIO114, 143 or 146	4	Spring only (even years)
CHE370 Environmental Chemistry w/Lab	CHE125 & BIO146 or 148	4	Spring only (odd years)
SCI412 Marine Science w/Lab	BIO148	4	

Total Major Units:	63
Upper Division Major Units:	31

### General Education Requirements

<b>Competency Requirements</b>	Units	Note
English Competency	3	ENG113 required
Math Competency	3	MAT145 or 245 will fulfill. STA144 recommended.
Technology	3	CIS265 recommended
Foreign Language I	3	
Foreign Language II	3	

If you are exempt from a Competency Requirement, add those units to Additional Elective Units Needed.

Core Curriculum	Units	Note
Behavioral Science	6	
English Composition	3	ENG123 required
English or Film	3	
Communication Arts	3	
Art or Music	3	
Philosophy	3	
US History	3	
Non-US History	3	
Political Science	3	
Lab Science	4	BIO313 will fulfill. BIO101 recommended
Science or Kinesiology	4	BIO330 will fulfill
Christian Studies	9	

<sup>\*</sup>Course is interdisciplinary

<b>Upper Division Requirements</b>	12	BIO313 & 330 will fulfill 8 units
Interdisciplinary Requirements	9	
Multicultural Requirements	9	ENG123 will fulfill 3 units

Total Required GE units:	51
Upper Division Required GE Units:	4

Additional Elective Units Needed: 10

**Upper Division Elective Units Needed:** 4

#### About This Plan

- This plan is not a contract. Curriculum can be subject to change.
- Highlighted courses and fields are major specific.
- Descriptions for all courses can be found in the CBU catalog at www.calbaptist.edu/about/universitycatalogs.aspx.
- To graduate, all students need 124 total units, 39 of which must be upper division.
- Courses numbered in the 300's and 400's are upper division.
- GST100, CHE102, ENG103, and MAT095 count as elective units.

### Contact Information

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	Freshman Year			Sophomore Year	
Fall Semester	<b>Spring Semester</b>	<b>Summer Semester</b>	Fall Semester	<b>Spring Semester</b>	<b>Summer Semester</b>
BIO146 General Biology I w/Lab	BIO148 General Biology II w/Lab 4		CHE115 General Chemistry I w/Lab 4	BIO313 Genetics 4	
CHE102 Fundamentals of Chemistry 3	ENG123 Intermediate Composition 3		Upper Division General Education Course 3	CHEM125 General Chemistry II w/Lab	
ENG113 Composition 3	General Education Course 3		General Education Course 3	MAT145 or MAT245 4	
GST100 Focus 1	General Education Course 3		General Education Course 3	General Education Course 3	
General Education Course (or Math Course if needed) 3	General Education Course 3		General Education Course 3		
Total Units: 14	Total Units: 16	Total Units:	Total Units: 16	Total Units: 15	Total Units:
2	Junior Year			Senior Year	
Fall Semester	Spring Semester	Summer Semester	Fall Semester	Spring Semester	Summer Semester
BIO330 Cell & Molecular Biology w/Lab		Summer Semester	Fall Semester BIO499 Biology Capstone 2	Spring Semester  BIO114 General Botany w/Lab  4	Summer Semester
BIO330 Cell & Molecular	Spring Semester  BIO302 or CHE370 (depending on year)  BIO380 Biology Seminar 1	Summer Semester		Spring Semester  BIO114 General Botany w/Lab  BIO302 or CHE370 (depending on year)  4	Summer Semester
BIO330 Cell & Molecular Biology w/Lab  CHE351 Organic Chemistry	Spring Semester BIO302 or CHE370 (depending on year)  4	Summer Semester	BIO499 Biology Capstone 2	Spring Semester  BIO114 General Botany w/Lab  BIO302 or CHE370	Summer Semester
BIO330 Cell & Molecular Biology w/Lab  CHE351 Organic Chemistry I w/Lab  4	Spring Semester  BIO302 or CHE370 (depending on year)  BIO380 Biology Seminar  CHE352 Organic Chemistry 4	Summer Semester	BIO499 Biology Capstone 2 SCI412 Marine Science 4	Spring Semester  BIO114 General Botany w/Lab  BIO302 or CHE370 (depending on year)  Upper Division General Education Course  Upper Division Elective  3	Summer Semester
BIO330 Cell & Molecular Biology w/Lab  CHE351 Organic Chemistry I w/Lab  PHY114 or PHY214  4	Spring Semester  BIO302 or CHE370 (depending on year)  BIO380 Biology Seminar 1  CHE352 Organic Chemistry II w/Lab	Summer Semester	BIO499 Biology Capstone 2  SCI412 Marine Science 4  General Education Course 3	Spring Semester  BIO114 General Botany w/Lab  BIO302 or CHE370 (depending on year)  Upper Division General Education Course  3	Summer Semester
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Total Units: <u>124</u> (124 units required to graduate)