Biology - Secondary Biology Education

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)
BIO344 Vertebrate Physiology w/Lab	BIO148 & CHE115	4	Spring only
PHY113 Astronomy	-	3	Fall only
PSC151 Introduction to Geosciences	-	3	

Total Major Units: 65

Upper Division Major Units: 27

General Education Requirements

Competency Requirements	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	

^{*}Course is interdisciplinary

Upper Division Requirements	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: 8

Upper Division Elective Units Needed: 8

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, ENG103, and MAT095 count as elective units.

Contact Information

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	Freshman Year			Sophomore Year	
Fall Semester	Spring Semester	Summer Semester	Fall Semester	Spring Semester	Summer Semester
BIO146 General Biology I w/Lab 4 CHE102 Fundamentals of Chemistry 3 ENG113 Composition 3 GST100 Focus 1 General Education Course (or Math Course if needed) 3	BIO148 General Biology II w/Lab ENG123 Intermediate Composition General Education Course 3 General Education Course 3 General Education Course 3		BIO330 Cell & Molecular Biology w/Lab CHE115 General Chemistry I w/Lab Upper Division General Education Course General Education Course 3 General Education Course 3	BIO313 Genetics 4 CHEM125 General Chemistry II w/Lab 4 MAT145 or MAT245 4 Upper Division General Education Course 3 Elective 1	
Total Units: 14	Total Units: 16	Total Units:	Total Units: 17	Total Units: 16	Total Units:
Fall Semester	Junior Year	Summer Samester	Fall Samester	Senior Year	Summer Semester
Fall Semester CHE351 Organic Chemistry I w/Lab	Spring Semester BIO114 or BIO302	Summer Semester	Fall Semester BIO499 Biology Capstone 2	Spring Semester BIO114 or BIO302	Summer Semester
	Spring Semester	Summer Semester		Spring Semester	Summer Semester
CHE351 Organic Chemistry 4 I w/Lab	Spring Semester BIO114 or BIO302 (depending on year) 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General Education Course 4	Summer Semester
CHE351 Organic Chemistry I w/Lab PHY114 or PHY214 Upper Division General 3	Spring Semester BIO114 or BIO302 (depending on year) BIO380 Biology Seminar CHE352 Organic Chemistry 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences Upper Division General Education Course 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General 3	Summer Semester
CHE351 Organic Chemistry I w/Lab PHY114 or PHY214 Upper Division General Education Course 3	Spring Semester BIO114 or BIO302 (depending on year) BIO380 Biology Seminar CHE352 Organic Chemistry II w/Lab 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences Upper Division General 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General Education Course Elective Course (or GE if 3	Summer Semester
CHE351 Organic Chemistry I w/Lab PHY114 or PHY214 Upper Division General Education Course 3	Spring Semester BIO114 or BIO302 4 (depending on year) 4 BIO380 Biology Seminar 1 CHE352 Organic Chemistry II w/Lab 4 PHY124 or PHY224 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences Upper Division General Education Course Upper Division General 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General Education Course Elective Course (or GE if 3	Summer Semester
CHE351 Organic Chemistry I w/Lab PHY114 or PHY214 Upper Division General Education Course 3	Spring Semester BIO114 or BIO302 4 (depending on year) 4 BIO380 Biology Seminar 1 CHE352 Organic Chemistry II w/Lab 4 PHY124 or PHY224 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences Upper Division General Education Course Upper Division General Education Course 3 Education Course 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General Education Course Elective Course (or GE if 3	Summer Semester
CHE351 Organic Chemistry I w/Lab PHY114 or PHY214 Upper Division General Education Course 3	Spring Semester BIO114 or BIO302 4 (depending on year) 4 BIO380 Biology Seminar 1 CHE352 Organic Chemistry II w/Lab 4 PHY124 or PHY224 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences Upper Division General Education Course Upper Division General Education Course 3 Education Course 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General Education Course Elective Course (or GE if 3	Summer Semester
CHE351 Organic Chemistry I w/Lab PHY114 or PHY214 Upper Division General Education Course 3	Spring Semester BIO114 or BIO302 4 (depending on year) 4 BIO380 Biology Seminar 1 CHE352 Organic Chemistry II w/Lab 4 PHY124 or PHY224 4	Summer Semester	BIO499 Biology Capstone 2 PHY113 Astronomy 3 PSC151 Introduction to Geosciences Upper Division General Education Course Upper Division General Education Course 3 Education Course 3	Spring Semester BIO114 or BIO302 (depending on year) BIO344 Vertebrate Physiology w/Lab Upper Division General Education Course Elective Course (or GE if 3	Summer Semester Total Units:

Total Units: 124 (124 units required to graduate)