

**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
CHE230 Introduction to Molecular Modeling	CHE115	1	Spring only
MAT245 Analytical Geometry & Calculus I	MAT135 or 145	4	
MAT255 Analytical Geometry & Calculus II	MAT245	4	
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
BIO330 Cell & Molecular Biology w/Lab	BIO146 & 148	4	Fall only
BIO430 Lab Techniques in Molecular Biology	BIO330 & CHE443	2	Spring only (even years)
BIO435 Proteomics, Genomics, & Bioinfo with Lab	BIO330; Pre or Co: BIO430	4	Spring only (even years)
CHE321 Analytical Chemistry w/Lab	CHE125	4	Fall only (odd years)
CHE351 Organic Chemistry I w/Lab	CHE125	4	Fall only
CHE352 Organic Chemistry II w/Lab	CHE351	4	Spring only
CHE415 Physical Chemistry I	CHE125 & MAT245	3	Fall only (even years)
CHE443 Biochemistry I w/Lab	CHE351	4	Spring only
CHE444 Biochemistry II w/Lab	CHE443	4	Fall only

Upper Division Elective Requirements	Pre-Req	Units	Note
Complete one of the following courses:			
BIO313 Genetics	BIO146	4	Spring only
BIO440 Pharmacology w/Lab	BIO330, 344 & CHE352		Fall only (even years)
BIO489 Immun. & Mol Patho w/Lab	BIO146 & 148		Spring only (odd years)

Upper Division Research Requirements	Pre-Req	Units	Note
Complete one of the following two-semester sequences:			
BIO380 & 490 Bio Seminar & Senior Research	- / BIO148	1 / 3	Spring only/As offered
CHE480 & 490 Chem Seminar & Senior Research	- / CHE125	1 / 3	Fall only/As offered

**Total Major Units: 74**

**Upper Division Major Units: 41**

**Additional Elective Units Needed: 0**

**Upper Division Elective Units Needed: 0**

**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](http://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.

**General Education Requirements**

Competency Requirements	Units	Note
English Competency	3	ENG113 required
<b>Math Competency</b>	<b>3</b>	<b>MAT245 will fulfill. STA144 recommended.</b>
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	
<b>Lab Science</b>	<b>4</b>	<b>BIO330 will fulfill. BIO101 or CHE101 recommended.</b>
<b>Science or Kinesiology</b>	<b>4</b>	<b>BIO430 will fulfill</b>
Christian Studies	9	

\*Course is interdisciplinary

<b>Upper Division Requirements</b>	<b>12</b>	<b>BIO330 &amp; 430 will fulfill 8 units</b>
<b>Interdisciplinary Requirements</b>	<b>9</b>	
<b>Multicultural Requirements</b>	<b>9</b>	<b>ENG123 will fulfill 3 units</b>

**Total Required GE units: 51**

**Upper Division Required GE Units: 4**

**Contact Information**

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*Freshman Year*

*Sophomore Year*

Fall Semester		Spring Semester		Summer Semester	
BIO146 General Biology I w/Lab	4	BIO148 General Biology II w/Lab	4		
CHE115 General Chemistry I w/Lab	4	CHE125 General Chemistry II w/Lab	4		
ENG113 Composition	3	CHE230 Introduction to Molecular Modeling	1		
GST100 Focus	1	ENG123 Composition	3		
General Education Course (or Math Course if needed)	3	General Education Course	3		
<b>Caution:</b> If additional Math is taken, an additional GE must be added to this plan.					
Total Units: <u>15</u>		Total Units: <u>15</u>		Total Units: <u>    </u>	

Fall Semester		Spring Semester		Summer Semester	
BIO330 Cell & Molecular Biology w/Lab	4	CHE352 Organic Chemistry II w/Lab	4		
CHE351 Organic Chemistry I w/Lab	4	CHE443 Biochemistry I w/Lab	4		
MAT245 Analytical Geometry & Calculus I	4	MAT255 Analytical Geometry & Calculus II	4		
General Education Course	3	General Education Course	3		
Total Units: <u>15</u>		Total Units: <u>15</u>		Total Units: <u>    </u>	

*Junior Year*

*Senior Year*

Fall Semester		Spring Semester		Summer Semester	
CHE321 or CHE415 (depending on year)	4/3	PHY224 Physics for Scientists II w/Lab	4		
CHE444 Biochemistry II w/Lab	4	Upper Division Elective	4		
PHY214 Physics for Scientists I w/Lab	4	BIO430 or Up Div GE Course (depending on year)	2/3		
General Education Course	3	BIO435 or GE Course (depending on year)	4/3		
General Education Course	3	General Education Course	3		
Total Units: <u>18/17</u>		Total Units: <u>17</u>		Total Units: <u>    </u>	

Fall Semester		Spring Semester		Summer Semester	
BIO380 or CHE480 (depending on choice)	1	BIO490 or CHE490 (depending on choice)	3		
CHE415 or CHE321 (depending on year)	3/4	Up Div GE Course or BIO430 (depending on year)	3/2		
Upper Division General Education Course	3	GE Course or BIO435 (depending on year)	3/4		
General Education Course	3	General Education Course	3		
General Education Course	3	General Education Course	3		
General Education Course	3				
Total Units: <u>16/17</u>		Total Units: <u>15</u>		Total Units: <u>    </u>	

**Total Units: 126 (124 units required to graduate)**