

**Major Requirements**

Lower Division Requirements	Pre-Req	Units	Note
BIO146 General Biology I w/Lab	-	4	
BIO148 General Biology II w/Lab	-	4	Spring only
CHE115 General Chemistry I w/Lab	CHE102 or HS Chem	4	
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
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
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	
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 insidecbu.calbaptist.edu.
- 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
Math Competency	3	MAT245 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	BIO330 will fulfill. BIO101 or CHE101 recommended.
Science or Kinesiology	4	BIO430 will fulfill
Christian Studies	9	

*Course is interdisciplinary

Upper Division Requirements	12	BIO330 & 430 will fulfill 8 units
Multicultural Requirements	9	ENG123 will fulfill 3 units
Interdisciplinary Requirements	9	

Total Required GE units: 51

Upper Division Required GE Units: 6

Contact Information

Department of Natural & Mathematical Sciences	
(951) 343 - 4380	James 454
• Dr. Lisa Hernandez, Dean	lihernandez@calbaptist.edu
• Debbie Spala, Department Secretary	dspala@calbaptist.edu
• Dr. Tom Ferko, A-K Faculty Advisor	tferko@calbaptist.edu
• Dr. Hannah Hu, L-Z Faculty Advisor	yhu@calbaptist.edu
Office of Academic Advising	Yeager B150
(951) 343 - 4567	advising@calbaptist.edu



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				
Caution: If additional Math is taken, 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 Analytical Chemistry w/Lab	4		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</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 Physical Chemistry I	3		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</u>			Total Units: <u>15</u>			Total Units: <u> </u>		

Total Units: 126 (124 units required to graduate)