Chemistry - Secondary Chemistry Education

Major Requirements

Lower Division Requirements	Pre-Req	Units	Note
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	See catalog
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
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 & MAT145 or 245	3	Fall only (even years)
CHE416 Physical Chemistry II w/Lab	CHE125, 230 & MAT245	4	Spring only (odd years)
CHE470 Instrumental Analysis	CHE321	4	Spring only (even years)
CHE480 Chemistry Research Seminar	See catalog	1	

Concentration Requirements	Pre-Req	Units	Note
BIO146 General Biology I w/Lab	-	4	Fall only
BIO148 General Biology II w/Lab	-	4	Spring only
CHE341 Advanced Inorganic Chemistry w/Lab	See catalog	4	Fall only (even years)
PHY213 Astronomy	=	3	Fall only
PSC151 Introduction to the Geosciences	-	3	

Total Major Units:	67
Upper Division Major Units:	28

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	CHE321 will fulfill. CHE101 recommended.
Science or Kinesiology	4	CHE351 will fulfill
Christian Studies	9	

^{*}Course is interdisciplinary

Upper Division Requirements	12	CHE321 & 351 will fulfill 6 units
Interdisciplinary Requirements	9	
Multicultural Requirements	9	ENG123 will fulfill 3 units

Total Required GE units:	51
Upper Division Required GE Units:	6

Additional Elective Units Needed:	6
Upper Division Elective Units Needed:	5

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	CHE125 General Chemistry 4		CHE351 Organic Chemistry 4	CHE230 Introduction to	
/Lab HE115 General Chemistry	II w/Lab BIO148 General Biology II		I w/Lab MAT245 Analytical	Molecular Modeling CHE352 Organic Chemistry	
w/Lab 4	w/Lab		Geometry & Calculus I	II w/Lab	
ENG113 Composition 3	ENG123 Composition 3		Upper Division General Education Course 3	MAT255 Analytical Geometry & Calculus II 4	
GST100 Focus 1	General Education Course 3		General Education Course 3	Upper Division General Education Course	
General Education Course or Math Course if needed)	Elective 1		General Education Course 3	General Education Course 3	
of Water Course if fieeded)				Elective 1	
Caution: If additional Math is					
taken, an additional GE must be added to this plan.					
Total Units: 15	Total Units: 15	Total Units:	Total Units: 17	Total Units: 16	_ Total Units:
		1			
	Junior Year			Senior Year	
Fall Semester	Spring Semester	Summer Semester	Fall Semester	Spring Semester	Summer Semester
CHE321 or CHE341 depending on year)	CHE470 or CHE416 (depending on year)		CHE341 or CHE321 (depending on year)	CHE416 or CHE470 (depending on year)	
PHY214 Physics for	PHY224 Physics for 4		CHE480 Chemistry	PSC151 Introduction to the	
cientists I w/Lab	Scientists II w/Lab		Research Seminar	Geosciences	
PHY213 or CHE415 depending on year)	Upper Division General Education Course 3		CHE415 or PHY213 (depending on year)	Upper Division General Education Course 3	
General Education Course 3	General Education Course 3		General Education Course 3	General Education Course 3	
	Elective 1		General Education Course 3	General Education Course 3	
elective 1	Licetive				
llective 1	Elective		Elective 1		
lective 1	Elective		Elective 1		
Elective 1			Elective 1		
lective			Elective 1		

Total Units: <u>124</u> (124 units required to graduate)