

**Major Requirements**

Lower Division Requirements	Pre-Req	Units	Note
CIS268 Computer Programming Languages	-	3	Spring only
MAT245 Analytical Geometry & Calculus I	MAT135 or 145	4	
MAT250 Modeling & Applications of Calculus	MAT245	2	Spring only
MAT255 Analytical Geometry & Calculus II	MAT245	4	
PHY214 Physics for Scientists I w/Lab	MAT245 & Exam	4	Fall only
PHY224 Physics for Scientists II w/Lab	PHY214	4	Spring only

Upper Division Requirements	Pre-Req	Units	Note
MAT313 Mathematical Proofs & Structures	MAT245	3	
MAT323 Modern Algebra	MAT313	4	Spring only
MAT343 Multivariable Calculus	MAT255	4	
MAT403 Linear Algebra	MAT313	3	Spring only
MAT413 Differential Equations	MAT255	3	
MAT443 Advanced Calculus	MAT313	3	Spring only

Concentration Requirements	Pre-Req	Units	Note
MAT333 Complex Variables	MAT313	3	Spring only (even years)
MAT423 Introduction to Topology	MAT313	3	Fall only (even years)
MAT453 Numerical Analysis	MAT255	3	Fall only (odd years)
One additional upper division mathematics course	Classes vary	3	See catalog

Total Major Units: 53

Upper Division Major Units: 32

**General Education Requirements**

Competency Requirements	Units	Note
English Competency	3	ENG113 required
Math Competency	3	MAT313* will fulfill
Technology	3	CIS268 will fulfill
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	PHY214 will fulfill
Science or Kinesiology	4	PHY224 will fulfill
Christian Studies	9	

\*Course is interdisciplinary

Upper Division Requirements	12	
Multicultural Requirements	9	ENG123 will fulfill 3 units
Interdisciplinary Requirements	9	MAT313 will fulfill 3 units

Total Required GE units: 48

Upper Division Required GE Units: 12

Additional Elective Units Needed: 23

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](http://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.

**Contact Information**

<b>Department of Natural &amp; Mathematical Sciences</b>	
(951) 552 - 8662	<b>James 454</b>
• Dr. Lisa Hernandez, Chair	<a href="mailto:lihernandez@calbaptist.edu">lihernandez@calbaptist.edu</a>
• Rita Schneider, Department Secretary	<a href="mailto:rschneider@calbaptist.edu">rschneider@calbaptist.edu</a>
<b>Office of Academic Advising</b>	<b>Yeager B146</b>
(951) 343 - 4567	<a href="mailto:advising@calbaptist.edu">advising@calbaptist.edu</a>

**Freshman Year**
**Sophomore Year**

Fall Semester		Spring Semester		Summer Semester	
MAT245 Analytical Geometry & Calculus I	4	CIS268 Computer Programming Languages	3		
CIS265 Information Systems Essentials	3	MAT250 Modeling & Applications of Calculus	2		
ENG113 Composition	3	MAT255 Analytical Geometry & Calculus II	4		
GST100 Focus	1	ENG123 Intermediate Composition	3		
General Education Course	3	General Education Course	3		
		Elective	1		
Total Units: <u>14</u>		Total Units: <u>16</u>		Total Units: <u>    </u>	

Fall Semester		Spring Semester		Summer Semester	
MAT313 Mathematical Proofs & Structures	3	MAT343 Multivariable Calculus	4		
PHY214 Physics for Scientists I w/Lab	4	PHY224 Physics for Scientists II w/Lab	4		
General Education Course	3	Upper Division General Education Course	3		
General Education Course	3	General Education Course	3		
General Education Course	3	Elective	1		
Total Units: <u>16</u>		Total Units: <u>15</u>		Total Units: <u>    </u>	

**Junior Year**
**Senior Year**

Fall Semester		Spring Semester		Summer Semester	
MAT453 or MAT423 (depending on year)	3	MAT323 Modern Algebra	4		
Upper Division General Education Course	3	MAT333 or MAT443 (depending on year)	3		
Upper Division General Education Course	3	MAT403 Linear Algebra	3		
General Education Course	3	General Education Course	3		
General Education Course	3	Elective	3		
Elective	1				
Total Units: <u>16</u>		Total Units: <u>16</u>		Total Units: <u>    </u>	

Fall Semester		Spring Semester		Summer Semester	
MAT423 or MAT453 (depending on year)	3	MAT443 or MAT333 (depending on year)	3		
MAT413 Differential Equations	3	Upper Division Mathematics Course	3		
Upper Division General Education Course	3	General Education Course	3		
Elective	3	Elective	3		
Elective	3	Elective	3		
Elective	1				
Total Units: <u>16</u>		Total Units: <u>15</u>		Total Units: <u>    </u>	

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