

## Foundational Mathematics (if taking PHY214 & PHY224)

### Major Requirements

Lower Division Requirements	Pre-Req	Units	Note
MAT101 Orientation to the Discipline	-	1	Spring only
MAT125 Mathematics Concepts & Applications I	MAT115	3	Fall only
MAT127 Mathematics Concepts & Applications II	MAT125	3	Spring only
MAT135 Pre-Calculus	MAT115	3	
MAT245 Analyitcal Geometry & Calculus I	MAT135 or 145	4	
MAT250 Modeling & Applications of Calculus	MAT245	2	Spring only
MAT255 Analytical Geometry & Calculus II	MAT245	4	

Upper Division Requirements	Pre-Req	Units	Note
EDU300 American Public Schools	-	3	Certificate of Clearance required
EDU302 Growth, Development & Learning	-	3	Certificate of Clearance required
EDU341 The Exceptional Child	-	3	Certificate of Clearance required
ETC305 Educational Computing	-	3	
MAT313 Mathematical Proofs & Structures	MAT245	3	
MAT353 Probability & Statistics	MAT245	3	Fall only
MAT363 History of Math & Theory of Numbers	Pre or Co: MAT313	3	Fall only
MAT403 Linear Algebra	MAT313	3	Spring only
MAT463 Fundamental Concepts of Geometry	MAT313	3	Spring only
MAT499 Capstone	-	4	Chair consent needed

Elective Requirements	Pre-Req	Units	Note
Complete a set of two courses from the following:			
MAT343 Multivariable Calculus	MAT255	4	
and MAT443 Advanced Calculus	MAT313	3	Spring only
PHY214 Physics for Scientists I w/Lab	MAT245 & Exam	4	Fall only
and PHY224 Physics for Scientists II w/Lab	PHY214	4	Spring only

Total Major Units:	59
<b>Upper Division Major Units:</b>	31

#### 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

<b>Competency Requirements</b>	Units	Note
English Competency	3	ENG113 required
Math Competency	3	MAT363* will fulfill
Technology	3	ETC305* 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	

<sup>\*</sup>Course is interdisciplinary

Upper Division Requirements	12	
Multicultural Requirements	9	ENG123 & MAT363 will fulfill 6 units
Interdisciplinary Requirements	9	ETC305 & MAT363 will fulfill 6 units

Total Required GE units:	48
Upper Division Required GE Units:	12

Additional Elective Units Needed:	17

Upper Division Elective Units Needed: 0

#### **Contact Information**

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# Cbu Foundational Mathematics (if taking PHY214 & PHY224)

		Freshman Year			Sophomore Year	
Fall Semester		<b>Spring Semester</b>	<b>Summer Semester</b>	Fall Semester	<b>Spring Semester</b>	<b>Summer Semester</b>
MAT125 Mathematics	3	MAT101 Orientation to the		EDU300 American Public 3	MAT250 Modeling &	
Concepts & Applications I		Discipline MAT127 Mathematics		MAT245 Appleited	MAT255 Applytical	
ENG113 Composition	3	Concepts & Applications II		Geometry & Calculus I	Geometry & Calculus II	
GST100 Focus	1	MAT135 Pre-Calculus 3		Upper Division General 3	Upper Division General 3	
		ENG122 Intermediate		Education Course	Education Course	
General Education Course	3	Composition 3		General Education Course 3	General Education Course 3	
General Education Course	3	General Education Course 3		General Education Course 3	General Education Course 3	
General Education Course	3	General Education Course 3				
						1
Total Units:	16	Total Units: 16	Total Units:	Total Units: 16	Total Units: 15	Total Units:
		Junior Year			Senior Year	
Fall Semester		Junior Year Spring Semester	Summer Semester	Fall Semester	Senior Year Spring Semester	Summer Semester
MAT313 Mathematical	3	Spring Semester EDU302 Growth,	Summer Semester	Fall Semester  EDU341 The Exceptional Child 3	Spring Semester  MAT463 Fundamental	Summer Semester
MAT313 Mathematical Proofs & Structures MAT353 Probability &	3	Spring Semester	Summer Semester	EDU341 The Exceptional Child 3 ETC305 Educational 3	Spring Semester	Summer Semester
MAT313 Mathematical Proofs & Structures MAT353 Probability & Statistics PHY214 Physics for		Spring Semester  EDU302 Growth, Development & Learning  MAT403 Linear Algebra 3  PHY224 Physics for 4	Summer Semester	EDU341 The Exceptional Child 3  ETC305 Educational Computing 3  MAT363 History of Math & 3	Spring Semester  MAT463 Fundamental Concepts of Geometry  MAT499 Capstone  4  Upper Division General	Summer Semester
MAT313 Mathematical Proofs & Structures MAT353 Probability & Statistics PHY214 Physics for Scientists I w/Lab	3	Spring Semester  EDU302 Growth, Development & Learning  MAT403 Linear Algebra  PHY224 Physics for Scientists II w/Lab  3	Summer Semester	EDU341 The Exceptional Child 3  ETC305 Educational Computing 3  MAT363 History of Math & Theory of Numbers 3  Lyper Division General	Spring Semester  MAT463 Fundamental Concepts of Geometry  MAT499 Capstone  Upper Division General Education Course  3	Summer Semester
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Total Units: 124 (124 units required to graduate)