



## MATHEMATICS MAJOR

### Four Year Plan

**This is a suggested program guide. It is not to be interpreted as a contract. Changes may occur. Please see your program advisor before you register for courses.** **Updated 5/21**

YEAR	FALL	SPRING
First Year	BENV100 Becoming a Scholar 3 Elective 2 <b>CPS 108 Computer Programming</b> 3 <b>MAT 135 Calculus 1</b> 5 Speaking and Listening Competency 3 Total 16	Writing Well Competency 3 Understanding Self and Society Competency 3 Elective 3 Living Well Competency 2-3 <b>MAT 136 Calculus 2</b> 5 Total 16-17
Second Year	Scientific Inquiry Competency 4 Or PHY 211 Physics for Sci/Eng 1 (recommended) 5 Reading the Bible Competency 3 Electives 2 <b>MAT 220 Discrete Mathematics</b> 3 <b>MAT 225 Multivariate Calculus</b> 3 Total 15-16	Creative Expression Competency 3 BENV200 Learning in Community 5 Elective 2 <b>MAT 230 Linear Algebra</b> 3 <b>MAT 211 Introductory Geometry</b> 3 Total 16
Third Year	<b>MAT 332 Abstract Algebra *</b> 3 <b>MAT 401 Analysis *</b> 3 Electives 9 Total 15	Exploring the Past Competency 3 Religious Understanding Competency 3 BENV 300 Cross-cultural Experience 3 <b>MAT 340 Probability and Statistics</b> 3 Elective 3 Total 15
Fourth Year	Electives 6 <b>MAT 312 Advanced Geometry *</b> 3 <b>MAT 350 Differential Equations &amp; Modeling *</b> 3 <b>MAT 360 Operations Research *</b> 3 Total 15	BENV400 Christian Values/Global Comm. 2 Electives 12 Total 14

124 total hours to complete graduation requirements (this includes 2 hours of arts and lecture credit)

**Boldface** print denotes major course requirement

**\*Alternate year courses:** MAT332 and MAT401 in odd-numbered years

MAT312, MAT350 and MAT360 in even-numbered years

MAT 135 and MAT 220 satisfy the Critical Analysis Competency.

[CPS 320](#) and [PHY 211](#) are strongly recommended for all mathematics majors.

[MAT 390](#) may be considered as an elective in mathematics and is repeatable as distinct investigations.

At least one upper level mathematics course shall be taken during the senior year.