



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 8/23**

YEAR	FALL	SPRING
First Year	BENV100 Becoming a Scholar 3 Elective 2 CPS 108 Computer Programming 3 MAT 135 Calculus 1 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 MAT 136 Calculus 2 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 MAT 220 Discrete Mathematics 3 MAT 225 Multivariate Calculus 3 Total 15-16	Creative Expression Competency 3 BENV200 Learning in Community 5 Elective 2 MAT 230 Linear Algebra 3 MAT 211 Introductory Geometry 3 Total 16
Third Year	MAT 332 Abstract Algebra * 3 MAT 401 Analysis * 3 Electives 9 Total 15	Exploring the Past Competency 3 Religious Understanding Competency 3 BENV 300 Cross-cultural Experience 3 MAT 340 Probability and Statistics 3 Elective 3 Total 15
Fourth Year	Electives 6 MAT 312 Advanced Geometry * 3 MAT 350 Differential Equations & Modeling * 3 MAT 360 Operations Research * 3 Total 15	BENV400 Enduring Values Capstone 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.