

## MATHEMATICS PROGRAM

This four-year plan is valid for the 2011-2012 USM Undergraduate Catalog only and is subject to change. This guide is merely a recommendation. Your actual program may vary. Other factors may impact your time to degree and course sequencing. See the current USM Undergraduate Catalog at <http://www.stmary.edu/catalogs/ugrad/default.htm> for more information, including USM academic policies, curriculum, pre-requisites, and course information.

### For students entering in an EVEN year:

Freshman Year	
Fall 1 Even	Spring 1 Odd
MA 221 Calculus With Analytic Geometry I (4)	MA 222 Calculus With Analytic Geometry II (4)
GE 114 First Year Experience I (3)	GE 115 First Year Experience II (3)
EN 111 English Composition I (3)	EN 112 English Composition II (3)
History General Education (3)	Social Science General Education (3)
Theology General Education (3)	PH 110 Logic (3)
<b>TOTAL: 16 hours</b>	<b>TOTAL: 16 hours</b>

Sophomore Year	
Fall 2 Odd	Spring 2 Even
MA 372 Mathematical Reasoning (3)	MA 380 Historical Foundations of Mathematics (3)
Theology General Education (3)	Behavioral Science General Education (3)
Literature General Education (3)	Fine Arts General Education (3)
SCA 250 Lifetime Wellness (3)	Elective (3)
Elective (3)	Elective (3)
<b>TOTAL: 15 hours</b>	<b>TOTAL: 15 hours</b>

Junior Year	
Fall 3 Even	Spring 3 Odd
MA 323 Multivariate Calculus (4)	MA 371 Mathematical Modeling (3)
MA 463 Abstract Algebra (3)	MA 455 Modern Geometry (3)
Physics I or General Chemistry I or Microeconomics* or Accounting I* (3 – 4)	Physics II or General Chemistry II or Macroeconomics* or Accounting II* (3 – 4)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
	Elective (3)
<b>TOTAL: 16-17 hours</b>	<b>TOTAL: 18-19 hours</b>

Senior Year	
Fall 4 Odd	Spring 4 Even
MA 364 Linear Algebra (3)	MA 437 Probability and Statistics (3)
MA 596 Senior Seminar (2)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	
<b>TOTAL: 17 hours</b>	<b>TOTAL: 15 hours</b>

\* Students taking these courses will also need to take a Science with Lab General Education Course.

**For students entering in an ODD year:**

<b>Freshman Year</b>	
<b>Fall Odd</b>	<b>Spring Even</b>
MA 221 Calculus With Analytic Geometry I (4)	MA 222 Calculus With Analytic Geometry II (4)
GE 114 First Year Experience I (3)	GE 115 First Year Experience II (3)
EN 111 English Composition I (3)	EN 112 English Composition II (3)
History General Education (3)	Social Science General Education (3)
Theology General Education (3)	PH 110 Logic (3)
<b>TOTAL: 16 hours</b>	<b>TOTAL: 16 hours</b>

<b>Sophomore Year</b>	
<b>Fall Even</b>	<b>Spring Odd</b>
MA 323 Multivariate Calculus (4)	MA 371 Mathematical Modeling (3)
Theology General Education (3)	Behavioral Science General Education (3)
Physics I or General Chemistry I or Microeconomics* or Accounting I* (3 – 4)	Physics II or General Chemistry II or Macroeconomics* or Accounting II* (3 – 4)
Literature General Education (3)	Elective (3)
SCA 250 Lifetime Wellness (3)	Elective (3)
<b>TOTAL: 16-17 hours</b>	<b>TOTAL: 15-16 hours</b>

<b>Junior Year</b>	
<b>Fall Odd</b>	<b>Spring Even</b>
MA 364 Linear Algebra (3)	MA 380 Historical Foundations of Mathematics (3)
MA 372 Mathematical Reasoning (3)	MA 437 Probability and Statistics (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
	Elective (3)
<b>TOTAL: 15 hours</b>	<b>TOTAL: 18 hours</b>

<b>Senior Year</b>	
<b>Fall 4 Even</b>	<b>Spring 4 Odd</b>
MA 463 Abstract Algebra (3)	MA 455 Modern Geometry (3)
MA 596 Senior Seminar (2)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	Elective (3)
Elective (3)	
<b>TOTAL: 17 hours</b>	<b>TOTAL: 15 hours</b>

\* Students taking these courses will also need to take a General Education Science Course with lab.