

**Mathematics Program Planner**  
**Effective for students entering in Fall 2010**

**Core Requirements**

_____ Core 090	_____ Core 098	_____ Core 099	_____ Core 100	_____ Core 110
_____ Core 115/116	_____ Core 131/133	_____ Core 140 or 141-146		_____ Core 15_*
_____ Core 16_	_____ Core 17_	_____ Core 18_*		_____ Core 19_*
_____ Core 25_	_____ Core 26_	_____ Core 280		_____ Core 28_

**Major Requirements**

**1) All Mathematics Majors take the following courses:**

**Freshman Year:**

Fall 2010	Spring 2011
_____ Math 127 Logic and Axiomatics	_____ Math 130 Analytic Geometry and Calculus II
_____ Math 129 Analytic Geometry and Calculus I	_____ CS 115 Introduction to Computing
_____ CS/CIS 116 Fundamentals of Programming I	OR
	_____ CS/CIS 117 Fundamentals of Programming II

**Sophomore Year:**

Fall 2011	Spring 2012
_____ Math 231 Analytic Geometry and Calculus III	_____ Math 250 Linear Algebra
_____ Math 235 Discrete Mathematics	

**Junior Year:**

Fall 2012	Spring 2013
_____ Math 367 Real Analysis	_____ Math 490 Junior Seminar

**Senior Year:**

Fall 2013
_____ Math 425 Abstract Algebra

**2) In addition to the above, each Mathematics Major completes one of the following three tracks:**

**A) Graduate School** – Five (5) Mathematics Electives Numbered 361 or Higher, usually taken in the **junior and senior years:**

i) \_\_\_\_\_ ii) \_\_\_\_\_ iii) \_\_\_\_\_ iv) \_\_\_\_\_ v) \_\_\_\_\_

**B) Actuarial Science, Industry, and Government** - The following five Mathematics courses, usually taken in the **junior or senior years:**

_____ Math 301 Financial Mathematics	_____ Math 361 Probability and Statistics
_____ Math 362 Statistics	_____ Math 363 Mathematical Modeling
_____ Math 365 Numerical Analysis	_____ One Additional Mathematics Elective
OR Math	Numbered Math 361 or higher
416 Real Analysis II	

**C) Secondary Teaching** – The following four mathematics courses and **specified Education courses in the Teacher Education Program:**

_____ Math 236 Geometry – <b>Taken in Spring of the Sophomore Year, Spring 2012</b>
_____ Math 361 Probability and Statistics – <b>Taken in Fall of the Junior Year, Fall 2012</b>
_____ Math 362 Statistics – <b>Taken in Spring of the Junior Year, Spring 2013</b>
_____ One additional Math Elective Numbered 363 or Higher

**3) Science Courses - Each Mathematics Major must take:**

_____ Chem 113 General Chemistry I	AND _____ Chem 114 General Chemistry II
<b>OR</b>	
_____ Phys 111 General Physics I	AND _____ Phys 112 General Physics II

These courses are usually taken in the **sophomore or junior year.**