

MATHEMATICS PROGRAM PLANNER
Effective for Students Entering Fall 2009

CORE REQUIREMENTS

___ CORE 090	___ CORE 100	___ CORE 110	___ CORE 115 OR 116
___ CORE 131 OR 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 2009

___ Math 127 Logic and Axiomatics
___ Math 129 Analytic Geometry &
Calculus I
___ CIS 115 Intro to CS **OR**
CIS 116 Visual Basic I

Spring 2010

___ Math 130 Analytic Geometry & Calculus II

SOPHOMORE YEAR

Fall 2010

___ Math 231 Analytic Geometry &
Calculus III
___ CS 235 Discrete Mathematics

Spring 2011

Math 250 ___ Linear Algebra

JUNIOR YEAR

Spring 2011

___ Math 367 Real Analysis I

Spring 2012

___ Math 490 Junior Seminar

SENIOR YEAR

Fall 2012

___ 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 & senior years:**

i) _____ ii) _____ iii) _____ iv) _____ v) _____

B) Industry and Government – The following five (5) Mathematics courses, usually taken in the **junior or senior years:**

___ Math 361 Probability and Statistics	___ Math 362 Statistics
___ Math 363 Mathematical Modeling	___ Math 365 Numerical Analysis or
___ One Additional Mathematics Elective Numbered 365 or Higher	Math 416 Real Analysis II

C) Secondary Teaching – The following four (4) Mathematics courses and **Specified Education Courses in the Teacher Education Program:**

___ Math 236 Geometry – **Taken in Spring of the Freshman Year, Spring 2010**
___ Math 361 Probability and Statistics – **Taken in Fall of the Junior Year, Fall 2011**
___ Math 362 Statistics – **Taken in Spring of the Junior Year Spring, Spring 2012**
___ One Additional Math Elective Numbered 363 or Higher

3.) Science Courses – Each Mathematics Major must take:

___ Chemistry 113 General Chemistry I AND ___ Chem 114 General Chemistry II
OR
___ Phys 111 General Physics I AND ___ Phys 112 General Physics II

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

4.) Cognate Courses – Each Mathematics Major must take two cognate courses (at least three credits each), approved by the department advisor:

i) _____ ii) _____