

Name _____

**PROGRESS TOWARD COMPLETION OF MAJOR
 B.A. with concentration in Pure Mathematics ('08-'10 catalog)**

Prerequisites and semesters offered follow the course. S=Spring; F=Fall; every semester if not listed.

Required Courses

Core:

		Met	Do
Math 161 – Differential and Integral Calculus I (3 units in GE).....	4	_____	_____
Math 211 – Differential and Integral Calculus II (161).....	4	_____	_____
Math 220 – Higher Mathematics: An Introduction (211).....	3	_____	_____
Math 261 – Multivariable Calculus (241 OR (211 and Phys 114)).....	4	_____	_____
Math 340 – Real Analysis I (220 and 261; S).....	4	_____	_____

Concentration:

Math 241 – Differential Equations with Linear Algebra (211).....	4	_____	_____
Math 306 – Number Theory (142 or 200 or 220; S) or Math 308 – Geometry (142 or 200 or 220; F).....	3	_____	_____
Math 320 – Modern Algebra I (220; F).....	4	_____	_____
Math 322 – Linear Algebra (220 AND (222 or 241); S).....	3	_____	_____
Math 360 – Complex Variables (220 and 261; 340 recommended; S'09, F'10, S'12).....	3	_____	_____
Math 418 – Topology (340; F'08, F'10) or Math 420 – Modern Algebra II (320; S'10, S'12) or Math 440 – Real Analysis II (340; F'09, F'11).....	3	_____	_____

Supporting Courses:

Math 180 – Computing for Math/Science (2 units; 161; F) or CS 115 – Programming I (4 units/3 units in GE).....	2-4	_____	_____
Phys 114 – Intro to Physics (3 units in GE; 161).....	4	_____	_____

Total units in pure mathematics program..... **45-47**

NOTE: Even though it is possible to complete this major with only 20 upper division units, **ALL** students are required to complete a **minimum of 40 upper division units**, including GE, the major, and electives, for graduation.