

Name \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**PROGRESS TOWARD COMPLETION OF MAJOR  
 B.A. with concentration in Pure Mathematics**

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

**Required Courses**

<b>Core:</b>	<b>Met</b>	<b>Do</b>
Math 161 – Differential and Integral Calculus I (GE B4).....	4	____
Math 180 – Computing for Math/Science (161; F) .....	2	____
Math 211 – Differential and Integral Calculus II (161).....	4	____
Math 220 – Reasoning and Proof (161 and (one subsequent math class or CS 242)); .....	4	____
Math 241 – Linear Algebra with Applications in Differential Equations (211).....	4	____
Math 340 – Real Analysis I (220 and (241 or 261); F).....	4	____

**Concentration:**

Math 261 – Multivariable Calculus (211).....	4	____
Math 306 – Number Theory (142 or 220; S) <b>or</b> Math 308 – Geometry (142 or 220; S).....	4	____
Math 320 – Abstract Algebra I (220; F).....	4	____
Math 322 – Linear Algebra (220 and 241; S).....	4	____
Two of:		
Math 440 – Real Analysis II (340; S odd years) .....	4	____
Math 418 – Topology (340; S odd years) .....	4	____
Math 460 – Complex Analysis (261 and 340; S even years) .....	4	____
Math 420 – Abstract Algebra II (320; S even years).....	4	____

**Total units in pure mathematics program** ..... **46 (incl. 8 in GE)**

**NOTE:** Even though it is possible to complete this major with only 24 upper division units, **ALL** students are required to complete a **minimum of 40 upper division units**, including GE, the major, and electives, for graduation.