

Name: \_\_\_\_\_

ID#: \_\_\_\_\_

**Department of Mathematics and Statistics**

**PURE MATHEMATICS CONCENTRATION**

**Lower Division Requirements**

Course	Title	Semester
Math 131	Calculus I	
Math 132	Calculus II	
Math 233	Calculus III	
Math 235	Linear Algebra	
CICS 110 (or Info 190S or CS 121)	Programming	
Math 300 (or CS 250)	Intro to Abstract Math	
Math 370	Jr. Yr. Writing	

**Integrative Experience (IE) for Primary Math/Stat Majors**

One of the following:

- Math 455
- Math 456
- Math 475
- Stat 525

The IE can also satisfy another requirement on this page.

**Upper Division Requirements**

Course	Title	Semester
Math 411	Abstract Algebra	
Math 421	Complex Variables	
Math 523H	Real Analysis	

**Comments:**

**Upper Division Requirements (Continued)**

**Advanced Analysis, Geometry, or Algebra**

Two of: Math 425 (no longer offered), Math 524, Math 412, Math 481/497K, Math 522/597F, Math 557, Math 563H.

Course	Semester

**Applied Mathematics**

One of: Math 331, Math 456 (also satisfies Math/Stat IE requirement), Math 532H, Math 534H, Math 551, Math 552, or Stat 516.

Course	Semester

**Upper Division Electives**

Two (2) additional 3-credit Math or Stat courses numbered 390 or higher (except Stat 501). One can be Math 331 if not used above. One can be Stat 315/515.

Primary majors may use one approved course from outside the department toward this requirement. Secondary majors may use two. The list of approved courses is at: <https://www.umass.edu/mathematics-statistics/academics/undergraduate/minor#approved-upper-division-courses-for-minors-and-majors>

Course	Semester