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

**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:**

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

**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/undergraduate/minor#course%20list>

|  |  |
| --- | --- |
| Course | Semester |
|  |  |
|  |  |