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

**Department of Mathematics and Statistics**

**APPLIED MATH 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 | Junior Year 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**

**Advanced Calculus**

Replaces the requirement of Math 425, which is no longer offered.

One of: Math 405/397C, Math 421, Math 425, Math 522/597F, Math 523H, Math 524, Math 532H, Math 534H, Math 548/597U, Math 552, Stat 516, or Stat 525.

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

**Comments:**

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

**Upper Division Requirements (Continued)**

**Diff Eqs, Lin Alg for Applied Math, and Scientific Computing**

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| --- | --- | --- |
| Course | Title | Semester |
| Math 331 | Differential Equations |  |
| Math 545 | Adv. Linear Algebra |  |
| Math 551 | Scientific Computing |  |

One of: Math 456 (satisfies Math/Stat IE requirement), Math 532H, Math 534H, Math 552.

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

**Upper Division Electives**

Choose three (3) additional 3 credit Math or Stat courses numbered 390 or higher (except Stat 501). Stat 315/515 can also count.

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>

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