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

**Department of Mathematics and Statistics**

**MATHEMATICAL COMPUTING CONCENTRATION**

**Lower Division Requirements**

|  |  |  |
| --- | --- | --- |
| Course | Title | Semester |
| Math 131 | Calculus I |  |
| Math 132 | Calculus II |  |
| Math 233 | Calculus III |  |
| Math 235 | Linear Algebra |  |
| CS 121 | Programming |  |
| Math 370 | Junior Year Writing |  |

**Discrete Mathematics**

Choose one (1) sequence:

* CS 187 then CS 250 OR
* Math 300 then Math 455 (also satisfies Math/Stat IE requirement).

Taking CS 187 and 250 is strongly recommended.

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

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

One of: Math 455, Math 456, Math 475, Stat 525. The IE can also satisfy another requirement on this page. Math 456 is the recommended IE for this concentration.

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

**Comments:**

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

**Upper Division Requirements**

|  |  |  |
| --- | --- | --- |
| Course | Title | Semester |
| Math 411 | Intro to Abstract Algebra |  |
| Stat 515 | Statistics I |  |
| Math 551 | Intro to Scientific Computing |  |
| CS 311 | Intro to Algorithms |  |

**Upper Division Electives**

Two of: Math 331, Math 412, Math 456 (also satisfies Math/Stat IE requirement), Math 471, Math 545, Math 571, Math 552, or Stat 516

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

One of: CS 501, CS 575 or Math 513

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

**CS Elective**

Choose one (1) 300+ level Computer Science course, but not CICS 305, CS 311, or any course used to satisfy another requirement on this sheet.

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