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 |  |
| CICS 110  (or Info 190S or CS 121) | Programming |  |
| 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.

**Discrete Mathematics**

Choose one (1) sequence:

* CICS 160 (or CS 187, Info 190T or E&C-ENG 241) then CS 250 OR
* Math 300 then Math 455 (also satisfies Math/Stat IE requirement).

Taking CICS 160 (or CS 187, Info 190T or E&C-ENG 241) and 250 is strongly recommended.

|  |  |
| --- | --- |
| Course | Semester |
|  |  |
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**Comments:**

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

**Upper Division Requirements**

|  |  |  |
| --- | --- | --- |
| Course | Title | Semester |
| Math 411 | Intro to Abstract Algebra |  |
| Stat 315/ 515 | Statistics I |  |
| Math 551 | Intro to Scientific Computing |  |
| CS 311\* | Intro to Algorithms |  |

\*CS 311 pre-reqs are CS 250 or Math 455 and CICS 210 or CS 187 all with grades of C or better.

**Upper Division Electives**

Two of: Math 331, Math 412, Math 456 (also satisfies Math/Stat IE requirement), Math 471, Math 545, Math 548/597U, Math 552, Math 571, or Stat 516

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| --- | --- |
| 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 |
|  |  |