# Mathematical Sciences

**Department of Mathematical Sciences**

**Department Chair:**Rebecca Sparks

**Data Science Program Faculty: Professors** Abrahamson, Costa, Humphreys, La Ferla, Sparks, Teixeira, Zhou; **Associate Professors** Burke, Gall, Harrop, Kovac, Pinheiro, Medwid, Ravenscroft; **Assistant Professors** Wang

Students **must** consult with their assigned advisor before they will be able to register for courses.

Mathematics Minor

Course Requirements

The minor in mathematics consists of a minimum of 21 credit hours (six courses), as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

and at least 8 additional MATH or DATA credits at the 300-level or above, except MATH 409..

Prior to enrolling in any mathematics course above 120, all students must have completed the College Mathematics Milestone.

Total Credit Hours: 20-22

Statistical Modeling Minor

Course Requirements

The minor in Statistical Modeling consists of a minimum of 20 credit hours (five courses), as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
|  |   |  |  |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |
|  | -Or- |  |  |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |
|  |   |  |  |
| MATH 245 | Principles of Data Science | 4 | F, Sp |
| MATH 345 | Linear Models for Data Science | 4 | F |
| MATH 445 | Advanced Statistical Methods | 4 | Sp |

Total Credit Hours: 20

Mathematical Studies M.A.

Admission Requirements

1. A completed application form accompanied by a $50 nonrefundable application fee.

2. Official transcripts of all undergraduate and graduate records.

3. A minimum cumulative grade point average of 3.00 on a 4.00 scale in undergraduate course work.

4. A minimum of 30 credit hours of courses beyond precalculus mathematics.

5. Three letters of recommendation.

6. A plan of study approved by the advisor and appropriate dean.

**BA/MA in Mathematical Studies Admission Option:**
Undergraduate students matriculated at Rhode Island College can apply for conditional admission to the Master of Arts in Mathematical Studies program after completing 60 undergraduate credits. Students conditionally admitted to the M.A. program begin taking graduate courses after completing 90 undergraduate credits. Students who remain in good standing and continue to meet admission requirements upon completion of the bachelors degree will be granted full admission to the M.A. program. Application requirements remain the same as above. Applicants must complete M300 and at least 6 of the required 12 math courses for the B.A. program prior to taking graduate level courses.