## B.S.M.A.S. IN METEOROLOGY

### Curriculum Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATM 103</td>
<td>Survey of Modern Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>ATM 243</td>
<td>Weather Forecasting</td>
<td>3</td>
</tr>
<tr>
<td>ATM 265</td>
<td>Atmospheric Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ATM 303</td>
<td>Meteorological Instrumentation and Observation</td>
<td>3</td>
</tr>
<tr>
<td>ATM 305</td>
<td>Atmospheric Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ATM 307</td>
<td>Introduction to the Physics of Climate</td>
<td>3</td>
</tr>
<tr>
<td>ATM 405</td>
<td>Atmospheric Dynamics I</td>
<td>3</td>
</tr>
<tr>
<td>ATM 406</td>
<td>Atmospheric Dynamics II</td>
<td>3</td>
</tr>
<tr>
<td>ATM 407</td>
<td>Weather Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ATM 409</td>
<td>Cloud Physics, Radiation, and Remote Sensing</td>
<td>3</td>
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</table>

**Other Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>CSC 120</td>
<td>Computer Programming I</td>
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</tr>
<tr>
<td>ENG 105</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 107</td>
<td>English Composition II: Science and Technology</td>
<td>3</td>
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<tr>
<td>or ENG 106</td>
<td>English Composition II</td>
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<tr>
<td>MSC 111</td>
<td>Introduction to Marine Science</td>
<td>3</td>
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<tr>
<td>MSC 112</td>
<td>Introduction to Marine Science Lab</td>
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<tr>
<td>MTH 161</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MTH 171</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MTH 162</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>or MTH 172</td>
<td>Calculus II</td>
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<tr>
<td>MTH 210</td>
<td>Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MTH 224</td>
<td>Introduction to Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or MSC 204</td>
<td>Environmental Statistics</td>
<td>3</td>
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<tr>
<td>MTH 311</td>
<td>Introduction to Ordinary Differential Equations</td>
<td>3</td>
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<tr>
<td>MTH 310</td>
<td>Multivariable Calculus</td>
<td>3</td>
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<td>or MTH 211</td>
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<td>University Physics II for the Sciences</td>
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<td>PHY 108</td>
<td>College Physics Laboratory II</td>
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**Electives**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>ATM 244</td>
<td>Tropical Weather and Forecasting</td>
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<tr>
<td>ATM 306</td>
<td>Advanced Principles in Broadcasting Meteorology</td>
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<tr>
<td>ATM 321</td>
<td>Scientific Programming in the Atmospheric Sciences</td>
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</tr>
<tr>
<td>MSC 301</td>
<td>Introduction to Physical Oceanography</td>
<td>3</td>
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</table>

**Total Credit Hours**

The Calculus I and II must be passed with a grade of “C-” or higher.
500-level courses are open to undergraduates but typically offered on the RSMAS campus. For Broadcast Meteorology double-majors and minors, the electives may be taken from the School of Communications.

### Suggested Plan of Study with Math Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td><strong>Freshman Year</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<td>ATM 103</td>
<td>Survey of Modern Meteorology</td>
<td>3</td>
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<td>Introduction to Marine Science</td>
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<td>MSC 112</td>
<td>Introduction to Marine Science Lab</td>
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<tr>
<td>ENG 105</td>
<td>English Composition I</td>
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<td>Calculus I</td>
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<td>ATM 243</td>
<td>Weather Forecasting</td>
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<td>ATM 265</td>
<td>Atmospheric Chemistry</td>
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<td>MTH 210</td>
<td>Introduction to Linear Algebra</td>
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<td>PHY 201</td>
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<td>PHY 106</td>
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<td>Meteorological Instrumentation and Observation</td>
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<td>PHY 108</td>
<td>College Physics Laboratory II</td>
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<td>Environmental Statistics or Introduction to Probability and Statistics</td>
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**Senior Year**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ATM 406</td>
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<tr>
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| Credit Hours | 15 |

**Spring**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
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<tr>
<td>Elective #12</td>
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<td>Elective #13</td>
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<tr>
<td>Elective #14</td>
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</tbody>
</table>

| Credit Hours | 12 |

*14 elective courses include:
- 3 Arts and Humanities Cognate courses
- 3 People and Society Cognate courses
- 1 Course (3 credits) at the 300+ level*