## General Outline for the Bachelor of Science Degree

### Program in Meteorology 2013

(Fulfills General Education Program 21)

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 210 &amp; L</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>CHE 111 &amp; L</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>MAT 210</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>For. Lang *</td>
<td>(3)</td>
<td>_____</td>
</tr>
</tbody>
</table>

*Note that time of course enrollment can deviate from semester indicated.*

### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 210 &amp; L</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>CHE 111 &amp; L</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>MAT 210</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>For. Lang *</td>
<td>(3)</td>
<td>_____</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 305</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>MAT 240</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>PHY 112 &amp; L</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>MET 310 #</td>
<td>(3)</td>
<td>_____</td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 301 &amp; L</td>
<td>(4)</td>
<td>_____</td>
</tr>
<tr>
<td>MAT 348</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>GE Elect</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>Elect</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>Elect</td>
<td>(3)</td>
<td>_____</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Term</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 411</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>MET 401/402</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>MET Elect</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>World Awareness</td>
<td>(3)</td>
<td>_____</td>
</tr>
<tr>
<td>Elect</td>
<td>(3)</td>
<td>_____</td>
</tr>
</tbody>
</table>

### Total semester hours: 122

**Core(44) & Cognate(33): 77**  
**Gen. Ed.: 18**  
**Open Electives: 27**

CHE – Chemistry; CSC – Computer Science; MAT – Mathematics; MET – Meteorology; PHY – Physics; ENG – English; For Lang – Foreign Language at 102 level; Elect – elective; GE – General Education Electives:

Fine & Performing Arts; American History; Western Civilization; Non-Western Civilization; Humanities; Social & Behavioral Sciences; and a different World Awareness course.

{General Education and non-major elective courses are floating and may be taken any time}


# CSC 212 may be substituted.

+ No credits if you pass the proficiency exam, replace the slot with elective.

Revised 4/2014
Meteorology Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 335</td>
<td>Micro-Meteorology</td>
</tr>
<tr>
<td>MET 340</td>
<td>Air pollution</td>
</tr>
<tr>
<td>MET 365</td>
<td>Tropical Meteorology</td>
</tr>
<tr>
<td>MET 401 and 402</td>
<td>Physical Meteorology courses (second counts as elective)</td>
</tr>
<tr>
<td>MET 420</td>
<td>Broadcast Meteorology</td>
</tr>
<tr>
<td>GEO 430</td>
<td>Hydrogeology</td>
</tr>
<tr>
<td>MET 399</td>
<td>Independent Study</td>
</tr>
<tr>
<td>MET 499</td>
<td>Independent Study</td>
</tr>
</tbody>
</table>

Meteorology Honors Program Requirements
Completion of BS in Meteorology
Overall cumulative average of 3.2 and Meteorology average of 3.2
Honors Independent Study (Met 499)

Minor Options:

Math Minor (3 or 6 additional credits)
Only two additional math courses beyond the requirements for a BS degree in Meteorology.
Mat 230 - Matrix Algebra
Any one mathematics course numbered 158 or higher, excluding Mat 206, 208, 304, 306, 307, 392 and Meteorology math cognates. Note that Mat 120, Precalculus, counts as an elective provided that it is taken before Mat 210.

Computer Science Minor (18 additional credits)

Astronomy Minor (15 additional credits)
Meteorology Courses

- MET 100 - Meteorology
- MET 210 - Meteorology for Science Majors I
- MET 211 - Introductory Meteorology Lab
- MET 220 - Meteorology for Science Majors II
- MET 301 - Synoptic Meteorology I
- MET 302 - Synoptic Meteorology Laboratory I
- MET 303 - Synoptic Meteorology II
- MET 304 - Synoptic-Dynamic Meteorology Laboratory II
- MET 305 - Climatology
- MET 310 - Computer Applications in Meteorology
- MET 315 - Weather Disasters
- MET 320 - Humans and Atmospheric Change
- MET 335 - Micrometeorology
- MET 340 - Air Pollution
- MET 350 - Meteorological Experimentation
- MET 351 - Meteorological Experimentation Laboratory
- MET 365 - Tropical Meteorology
- MET 390 - Special Topics in Meteorology
- MET 399 - Independent Study
- MET 401 - Atmospheric Physics: Radiation and Remote Sensing
- MET 402 - Atmospheric Physics: Atmospheric Aerosol and Cloud Physics
- MET 411 - Dynamic Meteorology I
- MET 412 - Dynamic Meteorology II
- MET 415 - Mesometeorology
- MET 416 - Remote Sensing and Mesoscale Meteorology Lab
- MET 420 - Broadcast Meteorology and Weather Forecasting
- MET 497 - Seminar
- MET 499 - Independent Study
Mathematics Minor (23-24 cr)
A. Core Requirements (14-15 cr)
  - MAT 210 - Calculus I credit: 4
  - MAT 220 - Calculus II credit: 4
  - MAT 230 - Matrix Algebra credit: 3
Select one course from the following:
  - MAT 215 - Introduction to Discrete Mathematics credit: 3
  - MAT 240 - Multivariable Calculus credit: 4
B. Elective Requirements (9 cr)
  - Any three mathematics courses numbered 158 or higher, excluding MAT 206, 208, 304, 306, 307
  and 392. MAT 120 counts as an elective if it is taken before MAT 210.
C. Cognate Requirements (None)

Computer Science Minor (25 cr)
A. Core Requirements (15 cr)
  - CSC 212 - Principles of Programming credit: 3
  - CSC 221 - Foundations of Computer Science credit: 3
  - CSC 222 - Computer Organization and Programming credit: 4
  - CSC 241 - Abstract Data Types and Programming Methodology credit: 3
  - CSC 344 - Programming Languages credit: 3
B. Elective Requirements (6 cr)
  - Six hours of Computer Science courses under advisement, numbered 300 or above.
C. Cognate Requirements (4 cr)
  - MAT 210 - Calculus I credit: 4

Astronomy Minor (31 cr)
A. Core Requirements (9 cr)
  - AST 100 - Astronomy credit: 3
  - AST 401 - Advanced Astronomy credit: 3
  - AST 405 - Introductory Astrophysics credit: 3
B. Elective Requirements (6 cr)
  - Select two courses from the following:
    - AST 310 - Topics in Modern Astronomy credit: 3
    - AST 350 - Observational Astronomy credit: 3
    - AST 399 - Independent Study credit: 1 to 6
    - AST 311 - Solar System Astronomy credit: 3
    - AST 390 - Special Topics in Astronomy credit: 1 to 3
    - AST 499 - Independent Study credit: 1 to 6
C. Cognate Requirements (16 cr)
  - MAT 210 - Calculus I credit: 4
  - MAT 220 - Calculus II credit: 4
  - PHY 111 - College Physics I credit: 4
  - PHY 212 - College Physics II credit: 4
List of courses (http://www.oswego.edu/myoswego.html ⇒ Undergraduate Course Descriptions):