METEOROLOGY, MINOR

Saint Louis University’s minor in meteorology introduces students to the approaches, tools and data used by meteorologists. The minor is a good option for students who will have direct interactions with meteorologists, including students in aviation, civil engineering, business, and pre-law. Those students pursuing a career in broadcasting may also consider a minor in meteorology to gain experience in broadcast meteorology.

Meteorology is more than just the study of weather; it includes all the characteristics, structures and processes of the atmosphere. Basic principles of physics and chemistry are applied to discover what makes the atmosphere work. Mathematical equations and techniques are used to predict weather based on present conditions. Recently, meteorology has become increasingly vital to humankind’s concerns. Ozone depletion and global warming have been identified as threats to human existence on earth. Meteorologists are on the front lines of the battle to learn more about and model these phenomena.

Though meteorology applies basic science to the atmosphere, critical to success in the program is a fascination with the atmosphere and the vast range of phenomena that it generates. Students pursuing a minor in meteorology will have direct interactions with our faculty and opportunities to engage with professional meteorologists from both the National Weather Service and Broadcasting.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Required Courses</td>
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<tr>
<td>EAS 1420</td>
<td>Foundations of Atmospheric Science</td>
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<tr>
<td>EAS 2110</td>
<td>Meteorological Analysis</td>
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<tr>
<td>EAS 2440</td>
<td>Atmospheric Processes and Systems</td>
<td>3</td>
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<tr>
<td>EAS 2530</td>
<td>Fundamentals of Climate Systems</td>
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<tr>
<td>MATH 1510</td>
<td>Calculus I</td>
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<tr>
<td>MATH 1520</td>
<td>Calculus II</td>
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Science Requirement

Select one of the following: 4

- PHYS 1610 | Engineering Physics I  
  & PHYS 1620 | and Engineering Physics I Laboratory

- PHYS 1310 | Physics I  
  & PHYS 1320 | and Physics I Laboratory

- PHYS 1350 | Aviation Physics

Minor Elective Courses

Select three of the following: 9

- EAS 1050 | Introduction to Oceanography
- EAS 3150 | Broadcast Meteorology I
- EAS 3160 | Broadcast Meteorology II
- EAS 3250 | Global Change
- EAS 3330 | Physical Meteorology I
- EAS 3500 | Numerical Modeling Applications
- EAS 3700 | Mesoanalysis and Severe Storms
- EAS 4030 | Elements of Air Pollution
- EAS 4150 | Instrumentation and Remote Sensing
- EAS 4200 | Synoptic Meteorology I
- EAS 4780 | COMET Modules

GIS 4010 | Introduction to Geographic Information Systems 3

Total Credits 33

Continuation Standards

Students with a minor in meteorology must maintain a 2.00 GPA in their minor coursework.