CLIMATE SCIENCE OPTION

This option is offered within the following major(s):

- Earth Sciences - College of Earth, Ocean, and Atmospheric Sciences (http://catalog.oregonstate.edu/college-departments/earth-ocean-atmospheric-sciences/earth-sciences-bs-hbs)

Students completing the Climate Science option will be prepared for a variety of careers in different areas related to climate, including

1. research and technical fields,
2. outreach, education, and communication, and
3. policy and economics.

All students will gain skills in the areas of basic science, data collection and analysis, in addition to a rigorous curriculum in climate science. A broad set of electives will allow students to pursue additional course work to prepare them in their specific areas of interest. Some students may choose to pursue advanced degrees in related disciplines, whereas others will enter the job market directly.

Option Code: 836

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PH 221</td>
<td>Recitation for Physics 211</td>
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Chemistry

Select one of the following:

- CH 122: General Chemistry
- CH 232: General Chemistry
- CH 262: Laboratory for Chemistry 232

Physics

Select one of the following options:

- Option A
  - PH 202: General Physics
  - PH 203: General Physics
- Option B
  - PH 212: General Physics with Calculus
  - PH 222: Recitation for Physics 212
  - PH 223: General Physics with Calculus
  - PH 221: Recitation for Physics 212

Calculus

- MTH 252: Integral Calculus
- MTH 254: Vector Calculus I

Core Requirements

- ATS 295: Observing Climate
- ATS 301: Climate Data Analysis
- ATS 310: Meteorology
- ATS 420: Principles of Climate: Physics of Climate and Climate Change
- ATS 421: Climate Modeling
- GEO 484: Introduction to Biogeochemistry
- GEO 486: Quaternary Paleoclimatology
- GEO 323: *Climateology

Experiential Learning

Select 6 credits of the following:

- ATS 401: Research
- ATS 403: Thesis
- ATS 410: Internship

Electives

Select at least one course in Climate Impacts, Adaptation, or Mitigation:

- CH 374: Technology, Energy, and Risk

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1. Students taking PH 211 in this option are required to take PH 221 concurrently
2. Baccalaureate Core Course
3. Writing Intensive Course (WIC)