CLIMATE SCIENCE — THE STUDY OF ATMOSPHERIC DYNAMICS AND PHYSICS

Developing new, more accurate techniques in atmospheric modeling to forecast climate change.

The AOSS Climate Physics program prepares you for graduate studies, climate modeling, and a position in “value added” industries providing the water resource, agricultural, seasonal recreation, and transportation industries with near-term climate analyses and predictions. Positions in government agencies serving to make policy or federal laboratories conducting climate research also are open to you.

SAMPLE SCHEDULE*

**College Requirements:**
- Engineering 100, 101
- Chemistry 125/126 AND 130 or 210/211
- Math 115, 116, 215, 216
- Physics 140/141, 240/241
- Humanities/Social Sciences

**ESSE Core Requirements:**
- Earth System Evolution
- Earth System Analysis
- Earth System Dynamics
- Introduction to Radiative Transfer
- Solar Terrestrial Relations
- Atmospheric Thermodynamics
- Earth Systems Models

**Climate Courses:**
- Cloud & Precipitation Processes
- Biochemical Cycles
- Experiential (3-4 hours from list)
- Meteorology and Climate of the Rockies
- Instrumentation for Atmospheric & Space Sciences
- Earth System Interactions
- Multidisciplinary Design
- Ecosystem Science in the Rockies
- Sustainable & Fossil Energy
- Climate Components (9-12 hours from list)
- Geophysical Fluid Dynamics
- Boundary Layer Meteorology
- Atmospheric Dynamics I
- Earth System Interactions
- Ocean Dynamics & Climate
- Earth System Interactions
- Environmental Ocean Dynamics
- Principles of Physical Oceanography
- Paleoclimatology

THE LEADERS AND THE BEST

The proud history of AOSS has yielded a department honored for its work, with faculty ready to prepare new generations of scientists and engineers for the future in the University of Michigan tradition: *The Leaders and the Best.*

*Courses subject to change. Please check with an advisor.*