

Meteorology track for AOES major

- Topic-area undergraduate advisor: Prof. Marcelo Chamecki (chamecki@ucla.edu)
- Lower division classes
 - Math, physics, and chemistry requirements
 - EPSS 71. Introduction to Computing for Geoscientists (normally taught in Fall)
 - Or CEE M20 or PiC 10A (both taught all quarters)
 - AOS 51. Fundamentals of climate science (normally taught in Winter or Spring)
 - AOS 90. Introduction to undergraduate research (normally taught in Winter or Spring)
 - Recommended (not required): Statistics 12 or 13. Introduction to Statistical Methods.
 - Suggested (not required): Statistics 20. Statistical Programming (requires Stats 12 or 13).
 - Suggested (not required): Geography 7: Introduction to GIS
- Recommended core courses (4 required):
 - 101. Fundamentals of Atmospheric Dynamics and Thermodynamics (recommended to take take in Fall of JR year)
 - 103. Physical Oceanography
 - 104. Fundamentals of Air and Water Pollution
 - 112: Climate Change Assessment (101 recommended)
- Advanced upper division courses (3 required)
 - Recommended:
 - C110. Advanced Dynamic and Synoptic Meteorology (101 required)
 - C115. Mesometeorology (101 required)
 - C144. Atmospheric Boundary Layer (101 required)
 - 145. Atmospheric Physics: Radiation, Clouds, and Aerosols (101 recommended)
 - 186. Operational Meteorology (C110 required)
 - Suggested:
 - M120. Introduction to Fluid Dynamics (Corequisite: Physics 131)
 - C160. Remote Sensing of Atmosphere and Oceans
 - 180. Numerical Methods in Atmospheric Sciences
 - 210. Planetary Atmospheres and Climates (requires petition to enroll)
 - To meet the degree requirements for employment at the National Weather Service or government agency as a meteorologist, you'd need to take 110, 145, C160, 186, and C115 or C144, among other classes. For exact requirements, see <https://www.opm.gov/policy-data-oversight/classification-qualifications/general-schedule-qualification-standards/1300/meteorology-series-1340/>:
- Upper division courses from other science departments (2 required)
 - Recommended:
 - C&EE 103. Applied Numerical Computing and Modeling in Civil & Env. Engineering
 - EPSS 153 Oceans and Atmospheres
 - MAE 103. Elementary Fluid Mechanics
 - Math 142. Mathematical Modeling
 - Phys 131. Mathematical methods of physics
 - Suggested:
 - C&EE 110. Introduction to probability and statistics for engineers
 - C&EE 150. Introduction to Hydrology
 - Geog 104. Climatology
 - Math 136. Partial differential equations
 - Math 151A. Applied numerical methods
 - Stats 101A. Introduction to data analysis and regression