

AOSS Graduate Program

Departmental Core Courses

551 Advanced Geophysical Fluid Dynamics (3 credits)
 532 Radiative Transfer (3 credits)
 747, 749 Seminar (1 credit, 4 terms)

Atmospheric Program Core Courses

Take 3 of:

475 Earth, Atmosphere & Ocean Interactions (4)
 479 Atmospheric Chemistry (4)
 411 Cloud & Precipitation Processes (3)
 5XX Statistical Analysis

Space & Planetary Program Core Courses

464 Space & Spacecraft Environment (4)
 565 Planetary Atmospheres (4)
 495 Upper Atmosphere & Ionosphere (4)

Atmospheric Chemistry & Biosphere Interactions Concentration Core Courses

467 Biogeochemical Cycles (3)
 578 Air Pollution Chemistry (3)
 422 Boundary Layer Meteorology (3)

Climate & Remote Sensing Concentration Core Courses

6XX Radiative Transfer II
 410 Earth System Modeling (4)
 451 Atmospheric Dynamics (4)

Space Plasma Concentration Core Courses

597 Space Plasma Physics (3)
 595 Magnetosphere & Solar Wind (3)
 598 Sun & Heliosphere (3)

Planetary Concentration Core Courses

411 Cloud & Precipitation Processes (3)
 451 Atmospheric Dynamics (4)
 479 Atmospheric Chemistry (4)

Example Program Electives

NRE 435 Forest/Terrestrial Ecology (4)
 463 Air Pollution Meteorology (3)
 NRE 430 Soil Properties & Processes (3)
 Chem 567 Chemical Kinetics (3)
 Chem 570 Molecular Physical Chemistry (3)
 Chem 580 Molecular Spectra & Structure (3)
 Math 450 Advanced Mathematics for Engineers (4)
 468 Data Analysis
 584 Space Instrumentation (3)

AERO 523 Computational Fluid Dynamics (3)
 Math 571, 572 Numerical Methods for Scientific Computing (3)
 585 Remote Sensing & Inversion Theory (3)
 EECS 501 Probability & Random Processes (4)
 EECS 532 Microwave Remote Sensing: Radiometry (3)
 EECS 530 Electromagnetic Theory (3)
 468 Data Analysis

AERO 523 Computational Fluid Dynamics (3)
 Physics 505 Electricity & Magnetism (3)
 584 Space Instrumentation (3)
 468 Data Analysis

410 Earth System Modeling
 578 Air Pollution Chemistry (3)
 6XX Radiative Transfer II
 584 Space Instrumentation (3)
 468 Data Analysis
 Astron 500 Theoretical Astrophysics (3)
 Astron 501 Modern Astronomical Technology (3)