APS 411

Topics in Atmospheric and Planetary Sciences: Air Pollution and Health

Course Description

Course participants will be able to identify elements of air pollution control, their impact on human health and management of ambient air quality.

Topics covered:

- History of air pollution control
- Health and environmental effects of air pollution
- Transport and dispersion of air pollutants
- Ambient air quality monitoring
- Emission inventories
- Laws and regulations
- Control of emissions from stationary and mobile sources
- Pollution prevention
- Respiratory and Cardiac Risk of Air Pollution
- Assessment of Respiratory and Cardiac Impact of Air Pollution
- Pollution prevention and Environmental Justice

Who Can Take Course?

Sophomore, junior, and senior students.

Course Reg. # 27932

Semester: Fall 2023

Days and Times:

Monday, Wednesday and Friday 9:00-9:50 AM

Instructors:

Dr. Ayodele Akinremi Dept. of Physical Therapy

Dr. Ruben Delgado Dept. of Atmospheric and Planetary Sciences

Why Take This Course?

This is the first of special topic courses, beginning in Fall 2023, to provide academic and handson experience in atmospheric science, air quality, public health and environmental justice.

The special topics series will provide students knowledge for certification in air quality management. Courses in:

- Air Pollution and Health
- Ambient Air Monitoring
- Remote Sensing of the Environment
- Environmental Justice

Interdisciplinary Sponsored Internships and Research Opportunities:

VA DEQ, US EPA, NASA, and NOAA

Strong academic foundation, and opportunities for graduate fellowships and scholarships for students interested in graduate degrees (Masters and Doctoral).

