ATMOSPHERIC CHEMISTRY MINOR

Atmospheric and Oceanic Science (AOSC)

3417 Computer and Space Sciences Building

Phone: 301-405-5391 http://aosc.umd.edu

Program Directors: T. Canty, Ph.D. and A. Jones, Ph.D.

This minor will provide the students with a general background in meteorology as offered by the lower level required courses, and a background on issues in atmospheric chemistry. This minor track is intended for students who might pursue careers where background in atmospheric chemistry is needed, such as air pollution, atmospheric chemistry, and environmental issues. It is aimed at students that might consider graduate work in atmospheric chemistry, or prepare them for a very favorable job market in the Washington area, where a background in meteorology can be an important asset. Students attempting this minor will need a strong background in mathematics, physics and chemistry at the level of MATH240 or MATH461, PHYS270 and PHYS271, CHEM481 (preferred), CHEM135 or CHEM131, which are prerequisites for the required courses. Students interested in taking this minor program should contact the Undergraduate Advisor in the Department of Atmospheric and Oceanic Science. This minor is not open to students who major in Atmospheric and Oceanic Sciences.

REQUIREMENTS

Total Credits

-241

A total of 15 credits is required. All courses presented for the minor must be passed with a grade of "C-" or better.

Select two electives from the following: AOSC123 Causes and Consequences of Global Change AOSC200 Weather and Climate Any AOSC 400 level course offered below as elective AOSC431 Atmospheric Thermodynamics 3 AOSC433 Atmospheric Chemistry and Climate 3 AOSC434 Air Pollution and Environmental Justice 3 Select one of the following electives: 3 CHEM474 GEOL471 Other 400 level courses offered in the Department of Atmospheric and Oceanic Science on a regular basis, or from a list of nonpermanent electives that will be offered by Research Scientists, regular faculty from Atmospheric and Oceanic Science, or members of the Earth System Science Interdisciplinary Center (ESSIC) Courses offered by the Departments of Geography and Geology such as: GEOG472 Remote Sensing: Digital Processing and Analysis GEOL437 Global Climate Change: Past and Present GEOL452 Watershed and Wetland Hydrology	C	ourse	Title Cr	edits
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GEOL437 Global Climate Change: Past and Present		, , , , , , , , , , , , , , , , , , , ,		
		GEOG472	Remote Sensing: Digital Processing and Analysis	
GEOL452 Watershed and Wetland Hydrology		GEOL437	Global Climate Change: Past and Present	
		GEOL452	Watershed and Wetland Hydrology	

18

ADVISING

Students are only required to meet with an advisor when ready to declare the minor. Students may meet with an advisor at any time by reaching out to aosc-advise@umd.edu. Other questions about advising or adding the Atmospheric Chemistry minor can also be directed to aosc-advise@umd.edu.