

Short course on atmospheric chemistry

Instructor: Patrick Chuang

Office: A254 Earth and Marine Sciences

Email: pchuang@es.ucsc.edu

Phone: 459-1501

Proposed syllabus

- Thermodynamics
- Chemical equilibrium and chemical kinetics
- Basics of photochemistry
- Stratospheric ozone depletion
- Tropospheric chemistry: ozone, NO_x, sulfur compounds, organics, radicals
- Cloud chemistry: sulfate formation
- Aerosols
- Trends in atmospheric gases (IPCC 4AR, Section 2.3)

Note: I will almost certainly set up an appropriate (2 credit) course designation in the fall that you can retroactively take for credit so that your work will be officially recorded.