

EPSC 513. CLIMATE AND THE CARBON CYCLE.

Credits: 3

Offered by: Earth & Planetary Sciences (Faculty of Science)

This course is not offered this catalogue year.

Description

What does the rapid increase in CO₂, currently driven by human activities, mean for future climate? Where will the carbon released by humans go, and how long will it take? An overview of the mechanisms governing global climate, the carbon cycle, and geological evidence for past changes in climate and the carbon cycle. Through assignments, students build their own simple Earth System models in order to explore basic principles of the coupling between climate and the carbon cycle. Output from General Circulation Models is analysed and recent peer-reviewed scientific literature is discussed.

- Prerequisite(s): ESYS 300 or EPSC 340 or ENVR 301 or ATOC 315; or permission of instructor.

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