

**ES7005 Environmental Earth Systems Science (3AUs)**

This course is designed to be a comprehensive introduction to the Earth and its systems, including the atmosphere, biosphere, hydrosphere, and solid Earth. The course will focus on the linkages and feedbacks between these systems, and the role of humans in the Earth system.

This course provides a holistic overview of our planet and its interconnected systems: from the formation of the solar system and Earth's deep interior all the way up to the hydrosphere and atmosphere. The course will include, but is not limited to:

1. The Earth System
2. Energy, Space, and Time
3. The Geosphere – Tectonics
4. Natural Hazards
5. The Hydrologic Cycle
6. The Ocean
7. The Atmosphere, Wind, and Weather
8. The Climate System
9. Evolution, Ecosystems and Populations
10. Natural Resources
11. Anthropogenic Change