

COURSE DETAIL

FOREST CLIMATE AND CARBON

Country

Ireland

Host Institution

University College Dublin

Program(s)

University College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Agricultural Sciences

UCEAP Course Number

136

UCEAP Course Suffix**UCEAP Official Title**

FOREST CLIMATE AND CARBON

UCEAP Transcript Title

FOREST CLIMATE

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course explores, for students with and without a science background, the linkages between forests, climate (change), and carbon (as well as other greenhouse gases). Topics include forest types, tree species; environmental factors determining tree growth/health; impacts of forests on climate and ecosystems; climate predictions, expected consequences and dendro-climatology; mitigation: carbon sequestration, biomass, renewable energy, product lifecycle, conservation of existing forests and forest expansion, land-use change and context of forestry among other land-use types e.g. agricultural systems; adaptation: forest management and sustainability, forest conversion/transformation, species selection, silvicultural systems; carbon trading: reduced emissions from deforestation and forest degradation (REDD); international cooperation (Kyoto, Copenhagen, Madrid, Cancun, Paris etc.) and current position for Ireland. Course includes a compulsory one-day fieldtrip.

Language(s) of Instruction

English

Host Institution Course Number

FOR20110

Host Institution Course Title

FOREST CLIMATE AND CARBON

Host Institution Course Details

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Host Institution Campus

Host Institution Faculty

School of Agriculture and Food Science

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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