

FORESTS AND CLIMATE CHANGE GRADUATE CERTIFICATE

This certificate is delivered primarily by Ecampus though some courses may also be offered on the Corvallis campus.

Forests worldwide have begun to be impacted by global climate change, and over the coming century, they will be profoundly altered by it. The adaptation of managed forests to climate change may require both silvicultural and genetics-based options. Because forests have the capacity to both emit and sequester carbon dioxide, a leading greenhouse gas contributing to climate change, there is tremendous interest in managing forests for the mitigation of climate change. These considerations suggest that a good understanding of the relationship between forests and climate change will be a critical requirement for the sustainable management of forest resources. The Forests and Climate Change (FCC) graduate certificate is designed to provide a thorough grounding in methods for assessing the impacts of climate change on forests, the evaluation of proposed adaptation strategies, and the development of management practices to enhance forest carbon sequestration for the mitigation of climate change.

The Forests and Climate Change graduate certificate is appropriate for many students, especially mid-career, company, industry or agency employees who want more training and experience in natural resources management and climate change.

Certificate Code: CG15

| Code | Title | Credits |
|--------------------------------------|--|----------|
| Required Core | | |
| SNR 511 | SUSTAINABLE NATURAL RESOURCE DEVELOPMENT | 1 |
| FES 500/MNR 500 | MARKET TOOLS FOR MANAGING GREENHOUSE GAS EMISSIONS | 3 |
| FES 536 | CARBON SEQUESTRATION IN FORESTS | 2 |
| MNR 538 | ADAPTING FORESTS TO CLIMATE CHANGE | 3 |
| MNR 550 | CLIMATE CHANGE IMPACTS ON FOREST ECOSYSTEMS | 3 |
| SNR 506 | INDEPENDENT PROJECT IN NATURAL RESOURCE SUSTAINABILITY | 2 |
| Elective Courses ¹ | | 6 |
| BEE 511 | GLOBAL ENVIRONMENTAL CHANGE: USING DATA TO INFORM DECISIONS | |
| FES 527 | FOREST CARBON ANALYSIS FOR ASSESSMENTS AND POLICY AGREEMENTS | |
| SNR 530 | ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES | |
| SNR 540 | GLOBAL ENVIRONMENTAL CHANGE | |
| Total Credits | | 20 |

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Additional elective courses will be considered in consultation with the FCC Program Director Badege Bishaw

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