Innovative Sustainable Forest Management in the Asia-Pacific Region

Introduction and Showcase

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Chair of AP-FECM
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Manila, Philippines

Outline

- Development of SFM online courses
- Showcase of courses on edX-edge platform
- Brief introduction to certificate program

Opportunities and challenges from MOOCs



New York Times:

2013: The year of the MOOC

Instruction for Masses Knocks Down Campus Walls

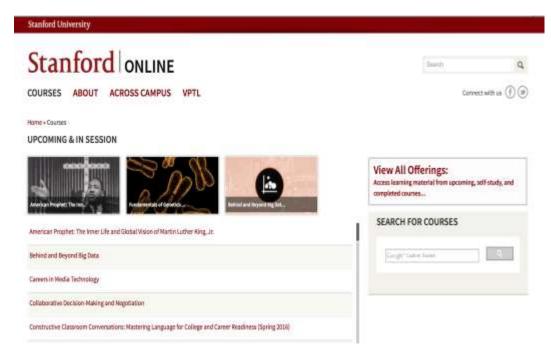
College of Future Could Be Come One, Come All

The Revolution Hits the Universities



Top universities around the world are offering online courses

Free courses from Stanford



Free courses from Coursera



Courses offered from Canvas (most are free)

GET WISE TO THE WORLD.

 Enroll in open, online courses from colleges, universities, and organizations worldwide —

Search Our Catalog



canvas

















Forestry Online Course Development for the Asia-Pacific Region

- Since November 2011, the Forestry Deans' Committee has undertaken regional surveys, issues and priority identification processes
- Six courses have been identified by 12 partnering universities in the region
- Leading professors for course development confirmed
- UBC CTLT and the Faculty of Forestry developed a demo template
- UBC provided technical support and capacity training to the project

Main Goal:

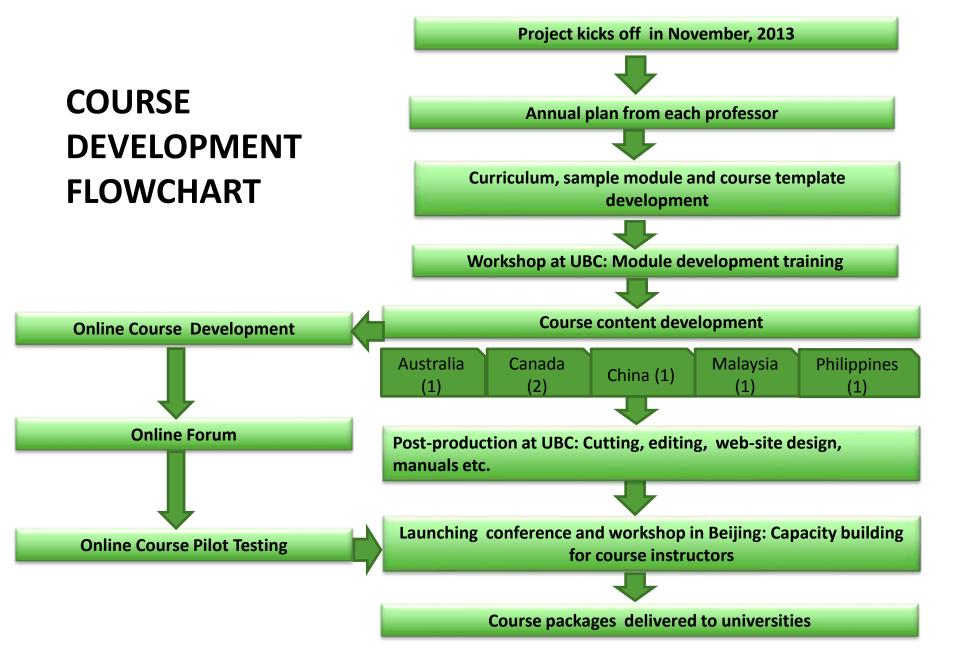
Create a program that leads to a credentialed degree in Forestry, develop and build self-directed learning courses with course content as open education resources for the Asia-Pacific region.

Multinational Multi-University Collaboration

- Universities from 5 countries
 - Australia, Philippines, Malaysia, China, and Canada
- Target

Six Courses:

- Sustainable Forestry in a Changing Word (UBC)
- Forest Governance, Public Relations, & Community Development (UPLB)
- International Dialogue on Forestry Issues (UBC)
- Sustainable Use of Forest Ecosystem Services (UPM)
- Restoration of Degraded Forest Ecosystems & Forest Plantation Development (UM)
- Forest Resource Management and Protection (BFU)



Production Centre and Quality Control at UBC

- Sample (template) module development at UBC
- Workshops at UBC:
 - Module development training
 - Curriculum development evaluation and cooperation
 - Copyright issues
- Online forum at BFU with support from UBC

SFM Online Courses













RESTORATION OF DEGRADED FOREST ECOSYSTEMS AND FOREST PLANTATION DEVELOPMENT

FOREST RESOURCE MANAGEMENT AND PROTECTION

Open Education Resources (OER)

Stand alone, independent courses

- Content free
 No license or copyright concerns or fees
- Content rich
 e.g. lecture capture presentations, videos, text
- Self-learning
 Self-tests
 Reflective questions
 Self-directed fora

Open Education Resources (OER)

Entire course or 'parts of' courses can be re-purposed

- In current programs
- In other online courses
- In face-to-face classroom teaching
- Support blended or flipped classroom approaches
- Foundation to new programs, Certificates, Diplomas and Masters in Sustainable Forestry programs

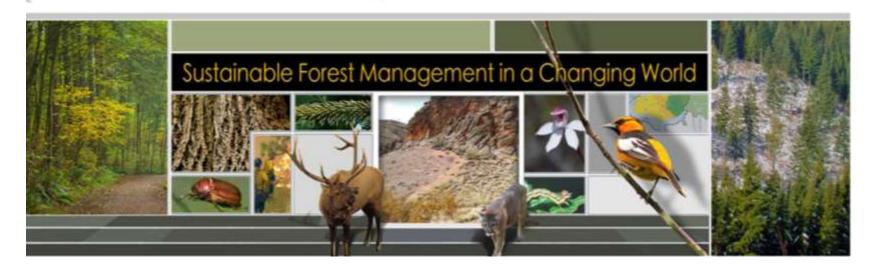
Course Design and Development

Team-based approach

- UBC Forestry Leads
 - Academic Project Leader (1)
 - Project Coordinator (1)
- UBC CTLT Central Support
 - Project Coordinator (1)
 - Instructional Designer (1)
 - Web Designer (1)
 - Graphic Designer (1)
 - Media Expert (1)
- Local Institute Development Team
 - Leading Professor (6)
 - Course Co-authors (11)
 - Media Support Assistants/Professionals (multiple)









WELCOME TO THE COURSE

MEET YOUR INSTRUCTOR

TOUR THE COURSE SITE

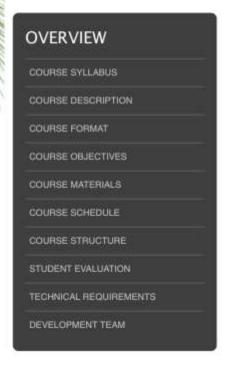
Hello! My name is John Innes (you can call me John) and I am your instructor for this course.

I am currently the Dean of Forestry in the Faculty of Forestry at the University of British Columbia. I got here via a circuitous route that involved doing undergraduate and PhD degrees at the University of Cambridge in the UK, working for a while at what was then University College Cardiff in Wales, followed by a short stint at the Climatic Research Unit at the University of East Anglia, back in England. My first real job was with the UK Forestry Commission, working on forest health surveys. After seven years I moved to Switzerland to do much the same job (but a lot better paid!), before coming to UBC in 1999. At UBC, I hold a position called the FRBC Chair of Forest Management, which was set up by an organization called Forest Renewal BC. The organization no longer exists, but its legacy lives on. As part of this, an important part of my work is to promote sustainable forest management.



Instructor: John Innes

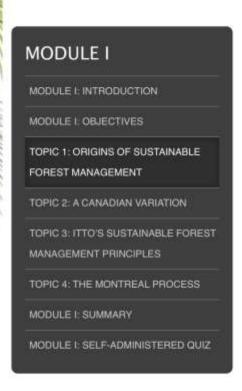




COURSE OVERVIEW

- · Course Syllabus (PDF)
- Course Description
- Course Format
- Course Objectives
- Course Materials
- Course Schedule
- Course Structure
- Student Evaluation
- · Technical Requirements
- Development Team

HOME START HERE OVERVIEW MODULE I MODULE III MODULE IV MODULE V MODULE VI



TOPIC 1: ORIGINS OF SUSTAINABLE FOREST MANAGEMENT

Introduction Background Info Video Lectures Resources Self-test

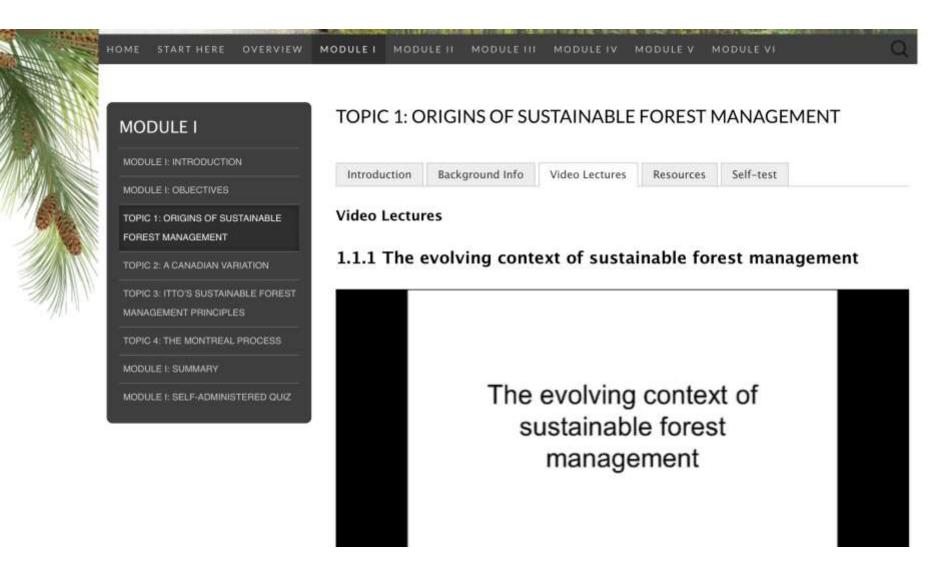
Background Info

Topic 1 Origins of sustainable forest management

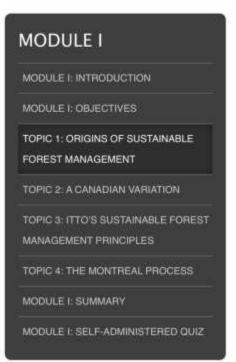
Many of the ideas behind sustainable forest management extend back several hundred years. However, today's ideas about sustainable forest management differ from the concept of sustained yield promoted in Germany in the 18th century, which focussed on the sustained production of timber. Sustainable forest management, as you will learn, is much more holistic approach to managing forest ecosystems.







HOME START HERE OVERVIEW MODULE I MODULE II MODULE IV MODULE V MODULE VI



TOPIC 1: ORIGINS OF SUSTAINABLE FOREST MANAGEMENT

Introduction	Background Info	Video Lectures	Resources	Self-test
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Self-test

Quiz Description:

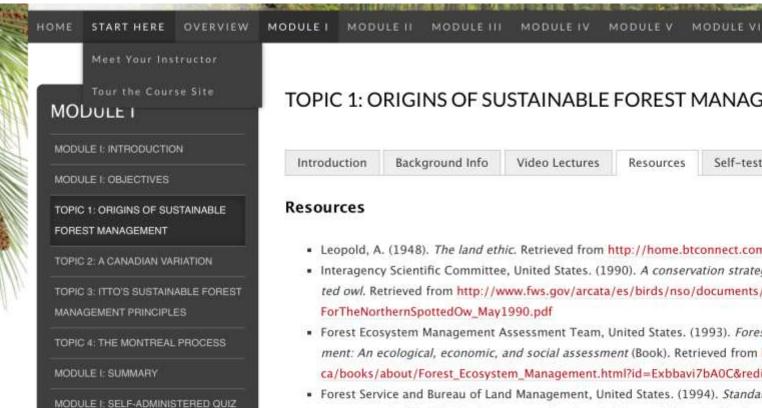
The following self-test quiz is designed to check your understanding of important learning concepts for this topic. The quiz contains ten multiple choice questions. There is no time limit for you to take the quiz and you may attempt to take it as many times as you like. After you click the Submit button, you will see your Grade, number of Correct Answers, your answers, and the Answer Key for each question.

Quiz Instructions:

While you are taking the quiz, we advise you not referring to any course materials. After you Submit your answers, you may self-reflect the missing points, review relevant contents as necessary, and retake the quiz again until you get the full points

Answer the following questions to see how well you have learnt in this topic:

An i	mportant idea proposed by Aldo Leopold was known as:*
9	The Forest Ethic
9	The Water Ethic
9	The Land Ethic
000	THER TIES HITTE



TOPIC 1: ORIGINS OF SUSTAINABLE FOREST MANAGEMENT

Self-test

- Leopold, A. (1948). The land ethic. Retrieved from http://home.btconnect.com/tipiglen/landethic.html
- Interagency Scientific Committee, United States. (1990). A conservation strategy for the northern spotted owl. Retrieved from http://www.fws.gov/arcata/es/birds/nso/documents/ConservationStrategy-
- Forest Ecosystem Management Assessment Team, United States. (1993). Forest ecosystem management: An ecological, economic, and social assessment (Book). Retrieved from http://books.google.ca/books/about/Forest_Ecosystem_Management.html?id=Exbbavi7bA0C&redir_esc=y
- Forest Service and Bureau of Land Management, United States. (1994). Standards and guidelines for management of habitat for late-successional and old-growth forest related species within the range of the northern spotted owl. Retrieved from http://www.reo.gov/documents/reports/newsandga.pdf
- Thomas, J. W., Franklin, J. F., Gordon, J., & Johnson, K. N. (2005). The northwest forest plan: Origins, components, implementation experience, and suggestions for change. Retrieved from: http://onlinelibrary.wiley.com/doi/10.1111/j.1523-1739.2006.00385.x/pdf
- MacCleery, D. (n.d.). Re-inventing the United States forest service: Evolution from custodial management, to production forestry, to ecosystem management. Retrieved from http://www.fao.org/docrep/010/ai412e/Al412E06.htm

Access to SFM Online Courses

➤ All six courses have been posted to the course blog sites by Nov 2015

http://blogs.ubc.ca/apfnet01/ http://blogs.ubc.ca/apfnet02/ http://blogs.ubc.ca/apfnet03/ http://blogs.ubc.ca/apfnet04/ http://blogs.ubc.ca/apfnet05/ http://blogs.ubc.ca/apfnet06/

Or go to AP-FECM's website: http://apfecm.forestry.ubc.ca/sfm-online-courses/



AP-FECM Certificate Program

- The AP-FECM certificate program will be initiated using the six SFM online courses that have already been developed
- The AP-FECM certificate program will be open to forest stakeholders including senior forestry students, young faculty and mid-career professionals in the Asia-Pacific region
- To receive the AP-FECM SFM program certificate, students will need to complete six courses and pass the final assessment of each course to get a total of 18 credits

EdX Edge web-based course platform has been selected as the provider of the Certificate program





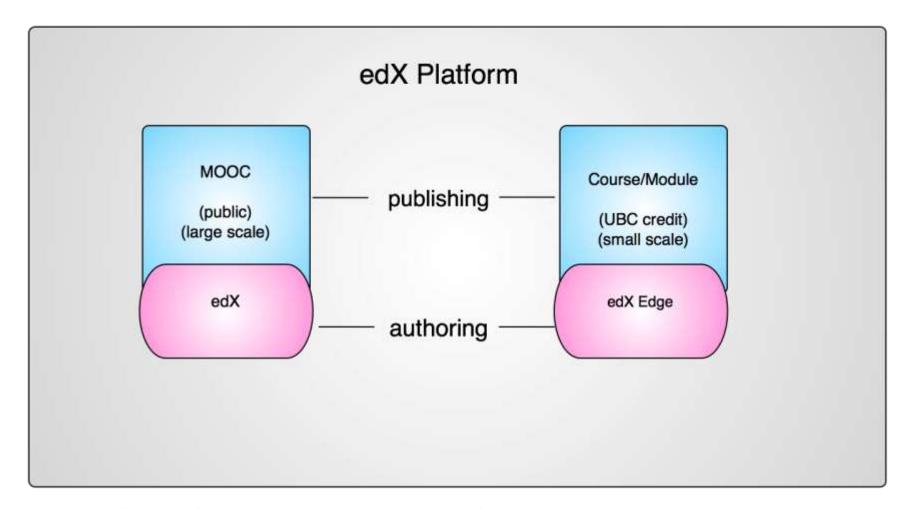








Platform for APFNet Certificate Courses: UBC edX (Edge)



source: http://wiki.ubc.ca/Documentation:Learning_Platforms/EdX_edge/Overview

Features of edX/Edge

Closed Learning Management System (LMS)

- Log in without UBC CWL
- Open to external learners
- Track learner activity and engagement
- Scalable to MOOC if needed

Interactive Learning Community

- Inbound communications: discussion board & wiki
- Outbound communications: announcements & email
- Additional communications: web conferencing & social media

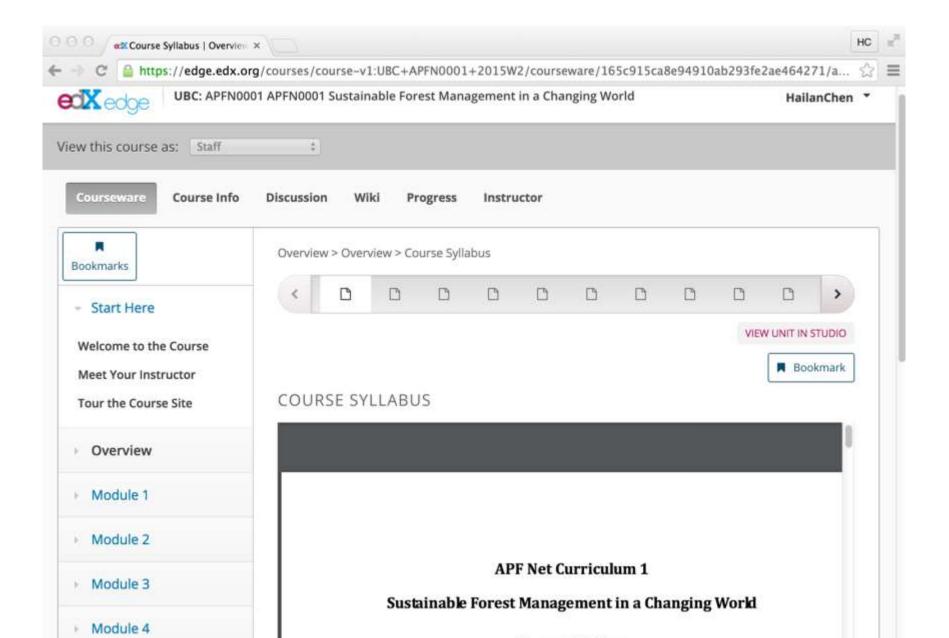
Variety of learning content/materials

- Videos, text pages, problem sets
- Link to e-textbooks and other external sources

Variety of assessment types

- Multiple choice, numeric input, math expressions, drag-and-drop
- Problem types allow hints and immediate feedback
- Peer and self assessment tool
- Additional assessment types possibly integrated with the LTI

Look & Feel of SFM Certificate Course on UBC edX (Edge)

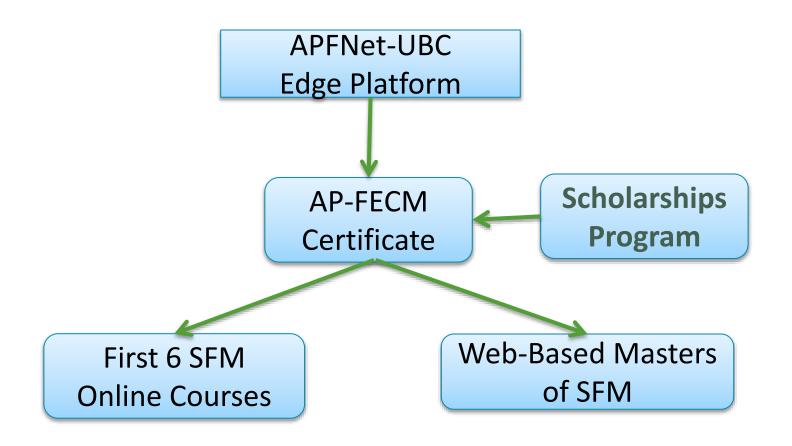


Potential new courses for next phase

Six new proposed courses focused on tropical forests:

- Plantation design and management
- Geomatics in forestry measurement
- Climate modelling and forest application
- REDD and forest carbon management
- Forest resources decision making
- Community forests and livelihoods

Certificate/Degree Program for SFM Online Courses



Web-Based Masters of Sustainable Forest Management

