

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: SUSTAINABLE RESOURCE MANAGEMENT

CODE NO.: FOR 311-4 SEMESTER: VI

PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

AUTHOR: MARK HARVEY

DATE: NOVEMBER 1996 PREVIOUS OUTLINE DATED: JANUARY 1996

APPROVED: *[Signature]* *[Signature]*
DEAN, BUSINESS & HOSPITALITY, DATE
NATURAL RESOURCES PROGRAMS &
COMPUTER PROGRAMS

TOTAL CREDITS: 4
LENGTH OF COURSE: 3 HOURS/WEEK
TOTAL CREDIT HOURS: 48

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I. COURSE DESCRIPTION:

The concept of sustainability is being used as cornerstone in the development of policy and programs by governments throughout the world. This is especially true in the resource sector. Students graduating from resource based programs require a broad based understanding of the issues of sustainable development from a local to a global scale.

Students will discuss and debate the effects of global issues on our local resource based economies. Local and regional resource sustainable development policies and initiatives will be focused on through guest lectures, videos, reading assignments and case studies.

This course will provide the opportunity for students to participate in the processes needed to develop programs that will ensure sustainable resource management in the 21st century.

II. LEARNING OUTCOMES AND ELEMENTS OF PERFORMANCE:

A. LEARNING OUTCOMES:

1. Describe elements of ecosystem management and sustainable resource management. 20%
2. Compare local regional, national and international sustainable forestry accords, conventions and initiatives. 30%
3. Demonstrate how international standards and resource issues impact on Canadian forest sector economic activity. 20%
4. Research and plan sustainable forestry practices. 30%

B. ELEMENTS OF PERFORMANCE:

Upon successful completion of this course the student will be able to:

1. - List six methods promoted in "*New Forestry*" that will help ensure the sustainability of our forest resource.
- List five or more current or past forest resource management practices that are not sustainable.
- List and describe the essential components of a forestry ecosystem.

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2. - Describe a minimum of eight major global issues in sustainable development.
 - List and describe the major components of the OMNR's sustainable development programs.
 - Evaluate the effectiveness of Canada's "*Green Plan*".
 - Evaluate the effectiveness of UNECD to promote global sustainable development.
 - Evaluate the effectiveness of proposed Bill 171 to achieve sustainable forest resource management.
 - Analyze and assess the 6 criteria and indicators of sustainable forest management outlined under the National Forest Strategy.
 - Critically evaluate the effectiveness of sustainable forestry initiatives in Ontario to meet the criteria for sustainable forestry.
3. - Demonstrate how global resource and economic issues can impact on the sustainability of the resource based industries in Canada.
 - Critically analyze the ISO 14000 Sustainable forestry certification program.
4. - Plan research and prepare an action plan to promote the sustainability of a managed forested landscape in Ontario.

III. TOPICS:

- Weeks 1&2 Defining Sustainable Development
 Concepts in Sustainable Development
 Video #1
 Video #2
 Video #3
- Weeks 3&4 Review of the Major Initiatives in Sustainable Development
 1. Brundtland Report
 2. UNCED Earth Summit Rio 1992
 3. Canada's Forestry Accord and the National Forestry
 Strategy, Canadian Council of Forest Ministers
 4. Ontario's Green Plan
 5. Ontario's Forest Sustainable Development Program
 6. Bill 171
- Week 5 Field Trip to the Algoma Highlands Nature Conservancy.
 Assignment #4.

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Assignment #2

Working in groups of 3, students will present a critique of 1 chapter from "Achieving Sustainable Development.

Assignment #3

Each individual student will read proposed Bill 171 the Crown Forest Sustainability Act, and then prepare a written critical analysis of the bill.

Assignment #4

Students will visit the Algoma Highland Nature conservancy. Students will each write a 100 word summary outlining how sustainable resource management is being and will be achieved on this tract of land. Or using the Internet, students will search and report on ISO Certification with specific reference to CSA, ISO 14000 initiative.

IV. EVALUATION METHODS:

Test #1	Open Book Test	
	Balancing Act &	
	Achieving Sustainable Development	20%
	Assignment #1	15%
	Assignment #2	15%
	Assignment #3	15%
	Assignment #4	10%
Test #2		<u>25%</u>
		100%

80% attendance is mandatory to achieve a C grade or higher.

A+	90 - 100%
A	80 - 89%
B	70 - 79%
C	60 - 69%
R	< 60%

V. REQUIRED STUDENT RESOURCES:

1. Balancing Act. Hammish Kimmins, 1992. University of British Columbia Press Vancouver BC. 244 p.
2. Achieving Sustainable Development. Edited by Ann Dale and John B. Robinson 1996. University of British Columbia Press Vancouver, BC 303 pages.

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VI. ADDITIONAL RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY
BOOK SECTION: (Other references available in Library or from the
instructor)

1. Caring for the Earth. United Nations Environment Programme (UNEP) 1992. The United Nations New York NY. 10017 USA.
2. Sustaining Our Natural Resources. Ontario Ministry of Natural Resources. 1993. Queen's Printer Toronto, Ont. 37 p.
3. Our Common Future. The World Commission on Environment and Development 1987. Oxford University Press. Oxford UK. 400 p. References
4. Global Outlook 2000. United Nations Publications 1990. 340 p.
5. Toward a Common Future. Michael Keating 1989. Minister of Supply and Service Canada. Ottawa. 47 p.
6. Sustainable Development and Forest Management, National Forum Proceedings. Canadian Council of Forest Ministers 1990. N.S. Dept. of Lands/Forestry Canada.
7. Sustainable Development Initiatives in Canada, Activities in Progress. Sustainable Development/State of the Environment Reporting Branch, Environment Canada 1990. Minister of Supply and Service Canada.
8. Nations of the Earth Report. United Nations Conference on Environment and Development, 1992. United Nations Report Ottawa, Ont. 322 p.
9. The Global Partnership for Environment and Development. United Nations Report, 1992. 116 p.
10. State of the World. Lester R. Brown, 1992. World Watch Institute Report. 336 p.
11. One World For One Earth. Philip Sarre and Paul Smith With Eleanor Morris, 1991. 188 p.
12. The Global Ecology Handbook. What You Can Do About the Environmental Crisis. Edited By W.H. Corson 1990. Beacon Press Boston. 414 p.
13. An Ecosystem Approach to Living Sustainably. OMNR 1995. Queen's Printer for Ontario and the Great Lakes Branch, OMNR Peterborough Ont. 77 p.

VII. SPECIAL NOTES:

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.