

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: WETLAND MANAGEMENT

CODE NO.: FOR333-3 SEMESTER: V

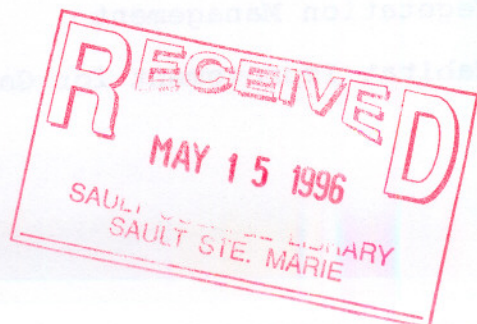
PROGRAM: INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

AUTHOR: H. COOPER

DATE: MAY 1996 PREVIOUS OUTLINE DATED: AUGUST 1995

APPROVED: [Signature]
DEAN

May 14, 1996
DATE



IV. LEARNING ACTIVITIES/REQUIRED RESOURCES

Topic/Unit 1 - Wetlands and their roles in Ecosystems

Learning Activities:

- 1.0 Define a wetland
- 1.1 Classify and state 4 characteristics of each class of wetland
- 1.2 Describe 10 values of wetlands and the major methods of wetland loss

Resources:

- Ref. 2 - Chapter 1
- Ref. 5 - Chapter 3

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Topic/Unit 2 - Biological Components of Wetlands

Learning Activities:

- 2.0 Identify indicator species of aquatic vegetation, macro-invertebrates, reptiles, waterfowl and mammals using wetland habitats
- 2.1 State the role and requirements of the above species.

Resources:

- Ref. 1
- Ref. 5 - Chapter 7
- Ref. 8 - Handouts
- Ref. 4
- Ref. 7

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Topic/Unit 3 - Wetland Evaluation

Learning Activities:

- 3.0 Perform a wetland evaluation by the "Ontario Wetland Habitat Evaluation" method
- 3.1 Explain any 2 other Wetland Habitat Evaluation Method.

Resources:

Wetland Evaluation for Ontario

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V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.) cont'd

Laboratory Sessions:

1. Review of aquatic plant identification and field test each time out.
2. Waterfowl (again) - Ducks up close and at a distance
- Geese up close and at a distance
3. Fur-bearers - whole, skulls, furs
4. Parasites and diseases
5. Waterfowl anatomy and physiology
6. Firearm anatomy & handling
7. Participation in "Volunteer" activities
- sandhill crane survey
- deer check station

Grading:

For Practical Tests

- A+ = 95%+
- A = 90-94%
- B = 85-89%
- C = 80-84%
- R < 80%

For all else

- A+ = 85%+ consistently
- A = 80-84%
- B = 70-79%
- C = 60-69%
- R = <60%

VI. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the instructor.

VI. REQUIRED TEXTS:

Payne, Neil F. 1992. Techniques for Wildlife Habitat Management of Wetlands. McGraw-Hill Inc. Toronto 549 pp.

VII. RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY:

1. Bellrose, F.C., 1080. Ducks, Geese and Swans of N.A., 3rd Ed., Stackpole, Penn. 540 pp.
2. Bookhout, T.A., E. 1994, Research and Management Techniques for Wildlife and Habitats, Fifth ed., The Wildlife Society, Bethesda, Md. 740 pp.
3. Linde, A.F., 1969. Techniques for Wetland Management. Department of Natural Resources, Madison, Wisconsin. 156 pp.
4. Novak, M., J.A. Baker, M.E. Obbard, B. Malloch ed. 1987, Wild Furbearer Management and Conservation in North America. Ontario Trappers Association, North Bay, Ont. 1150 pp.

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VII. RESOURCE MATERIALS AVAILABLE IN THE COLLEGE LIBRARY: (cont'd)

5. O.M.N.R. 1987, Community Wildlife Involvement Program Field Manual. Toronto 520 pp.
6. Rue, L.L. III, 1980. Fur-bearing Animals of North America. Crown publ. N.Y. 343 pp.
7. U.S.D.I. 1988-1994. Waterfowl Management Handbook. U.S. Department of the Interior, Washington, D.C.; Series of Fish & Wildlife leaflets.
8. U.S. Forest Service, 1969. Wildlife Habitat Improvement Handbook, U.S.D.A. Washington, 200 pp.

VIII. SPECIAL NOTES

Students with special needs (eg. 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.