

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

NATURAL RESOURCE PLANNING

COURSE TITLE: _____

FOR 300-3

CODE NO.: _____ SEMESTER: _____

5

INTEGRATED RESOURCE MANAGEMENT TECHNOLOGY

PROGRAM: _____

H. A. COOPER/S. FISCHER

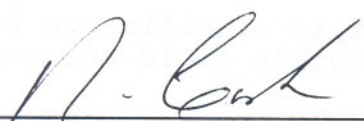
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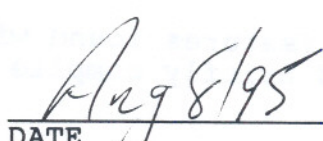
AUGUST 1995

DATE: _____ PREVIOUS OUTLINE DATED: _____

AUGUST 1994

APPROVED:


DEAN


DATE

NATURAL RESOURCE PLANNING

FOR 300-3

COURSE NAME

CODE NUMBER

TOTAL CREDIT HOURS: 48

PREREQUISITE(S): None

I. PHILOSOPHY/GOALS:

A project oriented course in which the student inventories, evaluates and prepares a land-use plan for a natural area. Areas for study may be selected by the student to accommodate his/her area of interest. An emphasis is placed on integrated resource use in management of any natural area.

An oral presentation and written report are required for evaluation. Possible projects include day-use parks, interpretive trails, marsh management, trout stream management, upland game management plans, experimental forest or private woodlot management plans.

II. STUDENT PERFORMANCE OBJECTIVES:

The student will select an approved natural area and on that area will be required to:

1. Perform a complete inventory of all pertinent flora, fauna, soil and geological features, natural history and climate, and existing land use.
2. Analyze the features found with respect to significance to their project, and briefly compile them in legible field notes and plot them on maps.
3. Research data regarding the species and area managed to assess the suitability of the prescribed area for these species or activities.
4. Prepare a detailed development plan complete with maps and specifics of all proposals and alternatives, to be presented in proper technical manner.
5. Prepare a promotional brochure to describe the area and the proposed developments there to the public (ie. other students).
6. Present the final management plan to an audience in a professional manner, using appropriate aids.

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III. TOPICS TO BE COVERED:

1. Inventory procedures.
2. Methods of literature research.
3. Preparation of development plans.
4. Student presentations.

IV. EVALUATION METHODS:

Weekly progress reports and attendance	- 15%
Progress interviews	- 20%
- First one, 2nd week in Oct.	- 10%
- Second one, 1st week in Nov.	- 10%
Oral presentation of plan	- 25%
Written version of plan	- 30%
Promotional brochure describing area	- 10%
	<hr/>
	100%

Grades:	A+= 85%+ consistently
	A = 80 - 84%
	B = 70 - 79%
	C = 60 - 69%
	R = less than 60%

Attendance Requirements:

Students will be expected to check in every week **PRIOR TO CLASS** if there is not a regular class scheduled. There will be a course time-table available to indicate which classes are compulsory as classroom attendance is concerned.

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IV. EVALUATION METHODS: (Cont'd)

On all other weeks, it is your responsibility to fill in your activity in the attendance book. Activities could include the following:

- Field work at _____
- Consultation with _____
- Other research
- Research at library
- Map work

Attendance will also be expected for other presentations. Penalties for neglecting to check in or missing EACH SEMINAR, without valid reason:

1 absence	- 0	} OF FINAL GRADE
2 "	- 5%	
3 "	- 10%	
4 "	- 15%	
5 "	- 25%	

Penalty for late reports - One (1) grade per day. After 3 days, a final grade of zero (0) will be assigned to the report. If no report is submitted, a grade of "R" will be assigned.

V. REQUIRED STUDENT RESOURCES:

Field Notebook

VI. SPECIAL NOTES:

PROGRESS REVIEW

Interviews will take place on or about the 6th week and the 9th week of classes. A schedule will be posted.

For these interviews, please bring the following:

1. A project title for your proposal eg. A day-use plan for Heyden Lakes area recreational activities.
2. Rough maps, showing access to your area and rough locations of pertinent features.
3. Field notes with inventory lists (see inventory hand-out).
4. A project outline.

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VI. SPECIAL NOTES: (Cont'd)

5. Any other information you feel is necessary to evaluate your effort and progress. eg. photos, slides, etc.
6. A list of questions, if you have any.

SUGGESTED PROCEDURE: (Plan of Attack)

The development of your plan will include the following, generally in this sequence.

1. Selection of Study Area by a "Team" of 2 to 3 Students. This will depend on:
 - a. Your area of interest eg. hiking trails, interpretation, cold-water fisheries, waterfowl, upland game, woodlot management, etc.
 - b. Familiarity with the area.
 - c. Transportation to and from the area.

A map and photo package for each of the listed areas is available from the instructor.

2. Site Inventory and Appraisal

There are various guidelines or methods for inventorying an area. In most cases, you will include:

- a. a brief history of the area
- b. geology/soils description
- c. climate
- d. significant flora
- e. significant fauna
- f. rare and sensitive species
- g. any physical or biological features that will influence your plan eg. social factors, public attitudes
- h. forest description from FRI and Operational cruising results where timber management is your objective

Your rough maps should be used to locate the above features. Some of the above information will be obtained from your research or interviews. The rest will be from on-site observation.

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VI. SPECIAL NOTES: (Cont'd)

3. Inventory Analysis

What features are significant to your plan?

4. Research Phase

Use reference material to make yourself aware of the requirements, limitations etc. of your type of proposed activity. Consult other plans for examples of what is required.

Consult your instructors and agencies for assistance BUT use discretion. Have specific questions prepared for these people. Try some ideas on them, but be sure these are feasible and not ridiculous.

5. Consider alternate plans for what can be done with the area.

6. Major consultation with instructor(s).

Progress interviews - By this time you should have a fairly clear idea of what you intend to do. BE PREPARED. SEE REQUIREMENTS FOR THIS INTERVIEW.

7. Draw up a detailed development plan.

8. Present your plan in a seminar style, using slides, maps, overlays and anything else that will add credence and interest to your presentation. The audience will act as an outside agency to be convinced (or not convinced) of the worthiness of your presentation. (see evaluation forms)

9. Prepare a promotional brochure (see samples).

10. Attend the seminars of your classmates and be prepared to give a critical analysis based on content, organization and presentation of each.

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VI. SPECIAL NOTES: (Cont'd)

LIST OF PRESELECTED AREAS & SUGGESTED SPECIALITY:

1. Crystal Creek
.coldwater stream management
2. Sill Lake (Van Koughnet Twp.)
.day-use recreational area
3. Heyden Lakes area, top of Mile Hill (Aweres Twp.)
.timber management recreational area
4. Robertson Creek area, including south side of King Mt. (Van Koughnet Twp.)
.mountain climbing park and scenic trail
.coldwater stream management
5. Echo Bay Marsh (Macdonald Twp. and Garden River Reserve)
.waterfowl management
.marshland interpretive management
6. Big Point, St. Joseph Island (Hilton Twp.)
.deer yard and range management
.timber management
7. Stokely Creek area (Haviland Twp.)
.coldwater stream management
8. Cave area (Johnston Twp.)
.cave park and interpretive trail
9. Chippewa Falls area (Tilley Twp.)
.roadside picnic area and scenic trail-stream mgmt.
10. Anderson Marsh
.marsh management for fur-bearers and/or waterfowl
11. Private woodlots (Jocelyn, St. Joseph & Hilton Twp.)
Several Choices
.forest/multiple use management
.includes maple syrup operations, clear-cuts, fuel woodlots
12. Gros Cap, north of Bluewater Inn and west of Marshal Drive (Prince Twp.)
.geological interpretive and scenic trail
.associated with present voyageur trail

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VI. SPECIAL NOTES: (Cont'd)

13. Pumpkin Point Marsh (Laird Twp.)
.waterfowl and marsh bird management
14. Pointe aux Pins Bay shoreline, west of Carpin Beach Parke Twp.)
.historical interpretive centre and associated ruins
.Timber management
15. Bone Creek and upper and Robertson Lake (Van Koughnet Twp.)
.general interpretive trail and day-use park
16. Diamond Lake Deer yard (Johnson Twp.) Permission Required
.deer yard and range management
17. Hilton township - MNR Wildlife Demonstration Plot
.integrated forestry/wildlife plan
18. Richardson Creek, below Cooper's Dam (St. Joseph Twp.)
.trout stream management
.grouse and hare management
19. Mark's Bay Deer Yard
.winter range management for deer
.Interpretive trail
20. Ottertail Lake (Plummer Twp.)
.waterfowl management
21. Sault College Woodlot Demonstration area
.multiple use plan for day use
.Woodlot management
22. Mile Hill area, (Aweres Twp.)
.forest management
23. Shore ridges
24. Demonstration Forest (Dennis Twp.)
.Integrated resource management plan

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.