

SAULT COLLEGE

of Applied Arts and Technology

Sault Ste. Marie

COURSE OUTLINE

NATURAL RESOURCES PLANNING

FOR 300-3

revised June, 1979 by H. Robbins

COURSE OUTLINE:

This is a project-oriented course in which the student spends the total course time (45 hrs) to complete the following requirements:

1. Site inventory including:
 - (a) flora
 - (b) fauna
 - (c) climate
 - (d) geology and soils
 - (e) history of the area
 - (f) rare flora and fauna
2. Inventory analysis to derive the significance of the above in his plan.
3. Consideration of alternative plans.
4. Brief summary of proposed plan with maps.
5. Detailed development plan.
6. Presentation of plan in 45 minute seminar, using appropriate aids.
7. Preparation of a brochure for the area.
8. Critically analyze the seminars given by other students.

NATURAL RESOURCES PLANNING.

FOR 300--3

GENERAL OBJECTIVE:

Resource Planning is a project orientated course in which the student prepares a land use plan for a natural area with emphasis in the student's specific area of interest.

Example: -day use area
 -wildlife management plan

He must present this plan to a general audience in a seminar style.

The student's plan for a natural area must be:

1. Preselected (see list next page)
2. Or area subject to instructor's approval.
3. Have only one student to an area, or combination of one fish and wildlife and one forest recreation student where suitable resources exist.
4. Include an area approximately one square mile (400 to 1000 acres) with road access and no more than 55 miles from the College.
5. Consider need for development, present use, and use capability but presence of outside influences (eg: nearby city) must be excluded or clearly defined in the plan.
6. An area considered as an ecological unit (eg: not part of a larger area).
7. Realistic and financially feasible.
8. Designed for day-use of facility only.

General Directives

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

- (1) Site inventory including:
 - (a) flora
 - (b) fauna
 - (c) climate
 - (d) geology and soils
 - (e) history of the area
 - (f) rare fauna and flora

The above to be obtained from on site observation but most from library research and the assistance of agencies such as MNR.

- (2) Inventory analysis - to derive the significance of the features of the area for inclusion in your plan.
- (3) Consideration of alternative plans - consider what you might be able to do with the area.
- (4) A decision on choice of a final plan to be presented in an interview three weeks after the course begins.
- (5) Provided you receive acceptance of your plan, draw up a detailed development plan.
- (6) Present your plan in a 45 minute seminar using maps, slides, graphs, overlays etc. Be prepared to answer questions from the audience.
- (7) Prepare a brochure of the area.
- (8) Attend the other seminars and give for each a one page critical analysis of the material, organization and presentation of each.

STUDENT EVALUATION

Percent

10	Weekly progress reports and attendance
15	Mid-term progress report to panel of instructors
15	Promotional brochure
25	Oral presentation of plan
25	Complete <u>typed</u> plan
10	Critical analysis of other plans
—	
100	

Reports that are late will be deducted one grade (ie. A to B etc.) per day, and thereafter given a "C".

Suggestions for the Student

1. Provide for a proper balance between field work and background research and reading. Your time is limited and don't forget you have other courses to work on.
2. Do any photography very early. There will be no extension of presentation deadlines for late slides etc.
3. Get your field work over in the first four to six weeks. The weather is best then and the vans will be available only until mid-semester.
4. Watch your costing of the project. They must be practical in keeping with the size and needs of the area.
5. Isolate your area from the outside, define clearly any outside influences you wish to include eg. nearby city.
6. The inventory of your area is very important but you will get out of it just what you put in. Use available resources to assist you. eg. instructors at the College, MNR, Algoma College and Gt. Lakes Forest Libraries.
7. Define clearly the audience you are presenting your seminar to (NOT classmates). Dress properly for the occasion.

Specific Directives & Rules

1. The vans will be available during the class time and on weekends, including Thanksgiving, until October 17 for those who need them. THE DRIVER OF THE VAN MUST SIGN HIS NAME IN ADVANCE, INDICATE HIS DESTINATION AND TIME OF DEPARTURE AND RETURN. A van will go either north or east and generally will be driven by the student going the farthest. OTHER STUDENTS ARE TO BE DROPPED OFF AT THEIR SITES ALONG THE WAY. Vans must be returned to the College EACH NIGHT.
2. ALL STUDENTS MUST FILL OUT A DRIVER APPLICATION FORM FOR INSURANCE PURPOSES. Forms are available from the instructor or Room A1131. You must also have a Class F drivers license to drive the College vans.
3. A boat (no motor) will be available for a three week period, except Fridays and September 29. This may be used by those wishing to do marsh or lake survey work.
4. THERE WILL BE NO ALCOHOL, FIREARMS OR FISHING EQUIPMENT CARRIED ON THE COLLEGE VANS. THESE VANS ARE SUPPLIED FOR PROJECT PURPOSES ONLY. What you carry in your own vehicles is your business.
5. EACH STUDENT MUST PERSONALLY REPORT TO THE INSTRUCTOR IN ADVANCE OF CLASS IF HE WANTS PERMISSION TO BE ABSENT. (i.e. on field trip work). He should report what is he planning to do for that time period.

FAILURE TO FOLLOW THE ABOVE UNDERLINED RULES WILL RESULT IN RECOMMENDATION FOR EXPULSION FROM THIS COURSE.

Students

Please have, at least the following, for mid-term interview (schedule will be posted):

1. A specific project title etc. "A stream management plan for speckled trout in Little Crooked Creek"
2. Field Notes
Rough Maps
Sketches
3. Inventory lists
4. Your project outline
5. A map of suitable scale showing project area boundary (to be retained)
6. Any other information you feel is necessary to evaluate your progress to date.

W. H. Robbins,
Instructor

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LIST OF PRESELECTED AREAS

Hiawatha Creek below Weyerhaeuser Rd. (Tarentorus Twp.)
- coldwater stream management

Crystal Creek from Crystal Falls to Minie Ha Ha Falls (Tarentorus Twp.)
- biological interpretive trail

Heyden Lakes area, top of Mile Hill (Aweres Twp.)
- deer and/or grouse management
- winter recreational area

Robertson Creek area including south side of King Mt. (Van Koughnet Twp.)
- mountain climbing park and scenic trail
- coldwater stream management

Sill Lake (Van Koughnet Twp.)
- coldwater lake management.
- winter day-use recreational area

Echo Bay Marsh (MacDonald Twp. and Garden River Reserve)
- waterfowl management
- marshland interpretive centre

Big Point, St. Joseph Is. (Hilton Twp.)
- deer yard and range management

Stokeley Creek area (Haviland Twp.)
- coldwater stream management

Cave area (Johnson Twp.)
- cave park and interpretive trail

Goulais River rapids (Deroche Twp.)
- riverbasin day-use park
- flood plain management and fish spawning

Chippewa Falls area (Tilley Twp.)
- roadside picnic area and scenic trail
- grouse management

Harmony Creek (Tupper Twp.)
- erosion control and stream management
- picnicking and swimming area

The Chutes, Goulais River (Twp. 23, Range 10)
- day-use area and geological interpretive trail

MacIntyre Lake and marshes to the south (Tarentorus and Aweres Twp.)
- furbearer marsh management

Gros Cap north of Bluewater Inn and west of Marshall Dr. (Prince Twp.)

- geological interpretive and scenic trail
associated with present voyageur trail

Pumpkin Point marsh (Laird Twp.)

- waterfowl and marsh bird management

Pointe Aux Pins Bay shoreline, west of Carpin Beach (Parker Twp.)

- historical interpretive centre and associated ruins.

Bruce Station area (Plummer Add'l Twp.)

- an automobile interpretive route presenting local history and rural architecture.

Bone Creek and Upper end Robertson Lake (Van Koughnet Twp.)

- general interpretive trail and day-use park.

Gibboney Marsh (Johnson Twp.)

- early settler and historical interpretive centre
- marshland management

Diamond Lake Deer Yard (Johnson Twp.)

- deer yard and range management

Whitefish Is. (Sault Rapids)

- historical interpretive centre

St. Mary's Is. (Sault Rapids)

- day-use picnic area and playground

Richardson Creek, below Cooper's dam (St. Joseph Twp.)

- trout stream management
- grouse and pheasant management