

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: PARK MAINTENANCE

Code No.: FOR 319-6

Program: FOREST RECREATION TECHNOLOGY

Semester: SIX

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APPROVED: 
Chairperson

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Date

PARK MAINTENANCE

FOR 319-6

Course Name

Course Number

PHILOSOPHY/GOALS:

Through lectures, assigned readings, personal research projects, seminars and field trips, a student will study and become familiar with park maintenance. Having fulfilled the requirements of this course, will be able to supervise park maintenance activities, plan and carry out park development projects and take responsibility for maintenance operations of a 400 campsite park.

The projects in the maintenance course are based on the specific area used in the planning course FOR 305-4 (Marks Bay) and the plan proposed for it.

METHOD OF ASSESSMENT (GRADING METHOD):

For each course segment, a project will be assigned and evaluated. A student must pass each course segment.

A. Park Construction Methods	15%
B. Water Systems	10%
C. Electrical Distribution	5%
D. Waste Disposal	10%
E. Concrete in Construction	10%
F. Wood Construction	10%
G. Facility Protection	10%
H. Park Equipment Use and Maintenance	10%
I. Facility Maintenance	10%
	<u>100%</u>

TEXTBOOK(S):

Park Planning Handbook - Christiansen

COURSE TOPIC INFORMATION

A Park Construction

- methods of clearing for construction
- pre-road construction trenching for underground power and water systems
- fill techniques
- surfacing roads, parking areas, campsites, etc.
- cost estimating

Project: using field inventory data as a basis, cost the development of the road systems for Phase I of Mark's Bay Plan (approximately 100 campsites and day use area).

B Water Systems

- determining demand
- sources
- types of wells and their construction
- water system equipment
- water storage
- trouble-shooting systems
- water treatment and standards
- routine maintenance
- emergency repair

Project: design and lay out a water system for Phase I of Mark's Bay Plan

C - Basic Electricity

- hydro from primary line to end of extension cord
- safe use of power
- 110 V, 220 V requirements
- types of wire including extension cords
- power overhead and underground
- portable generators

D Waste Disposal Systems

- A) Sewage - terminology
- sewage systems (types, components, soil testing, installation methods)
 - pit privies
 - vault toilets
 - comfort stations
 - maintenance of systems

Project: design a system for Mark's Bay Gatehouse

COURSE TOPIC INFORMATION

- B) Refuse - types of refuse systems
- advantages and disadvantages
- equipment

Project: design a feasible system for Mark's Bay

E Concrete in Parks

- related terminology and methods

Project: each student in class plans and costs a different minor concrete project, etc. (pour a set of steps including:

- site preparation
- tools
- materials
- project stages
- options
- costs
- (drawings)

F Facility Project

Project: each student in class designs and costs a different minor wooden park facility.

(examples: bulletin board, board walk, work bench)

- including:
- site preparation
 - material list
 - tools
 - project steps
 - options
 - drawings

G Facility Protection

Protection of park facilities from wind, rain, ground moisture, snow, ice, vehicles and vandalism.

- paints
- preservatives
- guards
- barriers

Application, installation and maintenance of above.

- wood splitters - chippers

I Facility Maintenance

Through slides, lecture and field trips, students are introduced to outline maintenance in parks.

- refuse
- tables
- grills
- signs
- vaults
- COMFORT STATIONS

(tools, equipment and scheduling for maintenance of above)

J Safe Use and Repair of Chains, Ropes and Accessories

- use and maintenance of common shop tools
- safe use of common shop tools, mechanical and woodworking
- plumbing materials and repairs