

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

COURSE OUTLINE

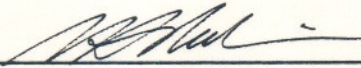
**COURSE TITLE:** EQUIPMENT OPERATION AND MAINTENANCE

**CODE NO.:** FOR 361 **SEMESTER:** VI

**PROGRAM:** FISH & WILDLIFE/PARKS & FOREST REC./FOREST MANAGEMENT

**AUTHOR:** WARREN ROBERTSON & STAN FISCHER

**DATE:** JUNE 1990 **PREVIOUS OUTLINE DATED:** FEB. 1990

**APPROVED:**  June 28/90.  
Dean Date

**PREREQUISITE(S):** NONE

**I. PHILOSOPHY/GOALS:**

snowmobiles and other forestry related mechanical equipment. As much as possible, the course will be oriented towards hands on rather than to use some of this equipment and to acquire camping, canoeing and survival skills.

**II. STUDENT PERFORMANCE OBJECTIVES:**

Upon successful completion of this course the student will:

1. Be able to safely operate a chainsaw, brushsaw, outboard motor, ATV and snowmobile to a basic level of competence.
2. Be able to maintain, troubleshoot and do emergency repair to this equipment.
3. Be able to meet objectives 1 & 2 to a lesser degree for other forestry related equipment such as pumps, generators, trailers and mowers.
4. Be able to sharpen a dulled chainsaw to a predetermined standard.
5. Be able to plan and carry out a several day backcountry working canoe trip.
6. Be able to do a proper motor vehicle circle check, change a tire, and back up a trailer on a pre-set course.

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**III. TOPICS TO BE COVERED:**

1. Motor vehicle circle check, troubleshooting and change a flat tire
2. Small engine review
3. Chainsaw operation, daily maintenance, emergency repair and field use
4. Brushsaw operation, emergency repair and field use
5. Outboard motor operation, emergency repair and field use
6. ATV and snowmobile operation, emergency repair and field use as conditions permit
7. 3 to 7 day backcountry canoe trip including planning of food, equipment, and personal needs; packing skills; canoeing skills; camp set-up and takedown skills; portaging; and survival techniques
8. Other forestry equipment - In a laboratory setting, discuss and demonstrate use of pumps, generator, mower and trailers.

**IV. METHOD OF EVALUATION:**

Safe operation and maintenance of a chainsaw to a predetermined standard	20%
Safe operation and maintenance of other equipment	30%
Demonstration of canoeing and camping skills	20%
Theory tests	10%
Attendance	20%
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	100%

**V. REQUIRED STUDENT RESOURCES:**

- Provide own food and personal needs for backcountry trip.