

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: MACHINE SHOP TECHNOLOGY

CODE NO.: MCH 107 (PRACTICAL)  
MCH 117 (THEORY)

SEMESTER: ONE

PROGRAM: MACHINE SHOP

AUTHOR: GORD IRVINE

DATE: AUGUST 1991

PREVIOUS OUTLINE DATED: JANUARY 1989

COORDINATOR

*[Handwritten Signature]*

APPROVED:

DEAN

*[Handwritten Signature]*

9/08/28  
DATE

MACHINE SHOP TECHNOLOGY  
COURSE NAME

MCH 107/MCH 117  
CODE NO.

TOTAL CREDIT HOURS \_\_\_\_\_

PREREQUISITE(S): \_\_\_\_\_

**I. PHILOSOPHY/GOALS:**

To familiarize the student with the machinery and tools used in an industrial type machine shop. To cultivate a level of skill in each student, based on their individual abilities, to prepare them either for an apprenticeship if they are successful, or return to accept the challenge of the more diversified topics in the second year.

**II. STUDENT PERFORMANCE OBJECTIVES:**

Upon successful completion of this course the student will:

- 1) attain a high level of competency in the knowledge and skills required in the trade.
- 2) have developed a good work ethic.
- 3) be aware of the opportunities available to them and where they can branch out later in their careers.

8/20/10  
DATE

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APPROVED: DEAN

IV.

LEARNING ACTIVITIES

- 1) Introduction
- 2) Safety
- 3) Bench Work and Hand Tools
- 4) Measuring Tools
- 5) Reference Tables
- 6) Layout Tools & Procedures
- 7) Cutting Principles and Materials
- 8) The Engine Lathe
- 9) Milling Machines
- 10) Drilling Machines
- 11) Surface and Cylindrical Grinders
- 12) Cut-Off and Contour Saws

REQUIRED RESOURCES

Technology of Machine Tools

- Page 8
- Pages 93 to 105
- Pages 28 to 71
- Pages 80 to 87
- Pages 113 to 118
- Pages 173 to 237
- Pages 251 to 316
- Pages 141 to 165
- Pages 390 to 427
- Pages 123 to 127

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**V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)**

Class Tests	50%
Ability & Attendance	10%
Homework	10%
Projects	20%
Mini Tests	10%

(NOTE: 1% PER HOUR OF ABSENTEEISM WILL BE DEDUCTED FROM TOTAL MARK, IF ATTENDANCE BECOMES A PROBLEM)

**VI. REQUIRED STUDENT RESOURCES**

Technology of Machine Tools - Krar - Oswald (3rd ed.)

Machinery's Handbook (23rd ed.) (OPTIONAL)

**VII. 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.