

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

COURSE OUTLINE

Course Title: METALLURGY
Code No.: MET 208-3
Program: MECHANICAL TECHNOLOGY
Semester: I v
Date: JANUARY, 1985
Author: K. CHENG

New: Revision:

APPROVED:

Chairperson

Date

METALLURGY

MET 20S

Course Name

Course Number

COURSE DESCRIPTION

Familiarization with the basics of metallurgy. Specifically, a brief introduction of the methods of extraction and reduction of ferrous ores, the refining procedures, the theory of alloys and heat treatment, mechanical properties and mechanical testing of materials.

TEXTBOOKS

"Metallurgy" by Johnson and Weeks (5th Edition) by American Technical Publishers.

COURSE TOPICS (Based on Textbook)

- 1) Extractive Metallurgy
 - Chapter 01 - Early History of Iron and Steel
 - Chapter 02 - Producing Iron and Steel
 - Chapter 03 - Refining into Steel

- 2) Physical Metallurgy
 - Chapter 05 - Physical Metallurgy
 - Chapter 07 Testing of Metals and Mechanical Properties
 - Chapter 08 Theory of Alloys
 - Chapter 09 Heat Treatment of Steel
 - Chapter 10 Surface Treatment of Steels

EVALUATIONS

Two Tests - 40
Lab Reports - 30
Assignments - 30

GRADING

A - 80 - 100%
B - 70 - 79%
C - 60 - 69%
R - < 60% (REPEAT)
I - Incomplete