

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

COURSE OUTLINE

Course Title: MECHANICS OF FLUIDS  
Code No. MCH 225  
MECHANIC\*! ukAi lING TECHNICIAN  
Semester FOUR  
Date JANUARY 1987  
Author C. RISING

New Revision

APPROVED

Chairperson

Date

MDAR DESCRIPTION

MECHANICS OF FLUIDS

MCH 225

Course Name

Course Number

PHILOSOPHY/GOALS:

To have the student able to recognize and solve problems in various areas of fluids and associated basic Thermodynamics.

METHOD OF ASSESSMENT (P'lnW mvs\

"A"	Grading wi	10 q i (i1	it
"B"	sketch*.:, n	and q	
"C"	presen \-.W		

TESTS;

- a) There will be a r n ^ num of one week's notice- for tests.
- b) Tests will be held at intervals throughout the semester
- c) In the event of a student being absent for a test, he/ she will be given an opportunity to write a test of similar content at a time suitable to the teacher.
- d) If a student fails a test, an opportunity will be given to that student to write a make-up test at a time designated by the teacher.
- e) An 80% attendance record is required in order for a student to be eligible to write a make-up test.
- f) The maximum grade that a student will be given for a make-up test will be a "C".

### ASSIGNMENTS:

- A) All assignments must be handed in for marking on the specified date and time.
- b) Grades for assignments\* submitted in late will be reduced according to the following scale:
  - 1-2 days late: 10% reduction
  - 3-5 days late: 20% reduction
  - 6-10 days late: 30% reduction
  - 11-15 days late: 40% reduction
  - 16-20 days late: 50% reduction
  - 21 days or more late: 60% reduction
- c) Late assignments, if not submitted *before the deadline*, will not be marked.
- d) The marking of assignments may be on a random basis.

### DISTRIBUTION OF MARKS:

Tests	70%
Assignments	20%
Attitude	10%

### REFERENCE TEXTS:

Fluid Mechanics Binder  
Fluid Mechanics Streeter  
Fluid Mechanics Daugherty & Franzini  
Hydraulics - King Wilier Joel  
Basic Engineering Thermodynamics  
thermodynamic Tables - Haywood

### TOPICS:

Principles of Hydrostatic Pressure  
Fundamentals of Fluid Flow  
Continuity Equation  
Bernoulli  
Flow Measurement (Venturi & orifice)  
Pipe Friction  
Gas Laws  
Steam  
Combustion