

SAULT COLLEGE  
of Applied Arts and Technology  
Sault Ste. Marie

COURSE OUTLINE

PHYSICS 111-3

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PHYSICS 111-3

Evaluation:

Based on test after each 2 topics

All tests have equal value

Final grade will be based on an average of all tests

A pass is an average of 60%

A supplemental will be available to those students who have an average of 50 to 60%

Below 50% is a failure grade.

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Physics

PHY 111

JANUARY 1983

Course Outline

Topic 1            Precision and accuracy

- Measurement error in instruments
- Procedural experimental error
- Calculations of absolute and percent error

Topic 2            Simple Machine

- Efficiency
- Mechanical advantage
- Lever
- Incl ined plane
- Torque

Topic 3            Elasticity

- Elasticity-properties of matter
- Young's Modulus
- Bulk Modulus

Topic 4            Wave Motion

- Types of Waves
- Wave velocities
- Wave frequency
- Periodicity
- Wave interference

Topic 5            Sound Waves

- Compressional sound waves
- shear waves
- surface waves (elliptical)
- Application to construction- Sound proofing, Earth quake proofing

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PHYSICS

PHY 111

January 198

Topic 6      Electric Current & Resistance

- Electric charge
- current flow directions
- electromotive force
- electric power

Topic 7      Simple circuits DC

- series
- parallel
- Kirchhoff's laws & circuits

Topic 8      Simple Currents AC

- As applied to construction