

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

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COURSE OUTLINE

JU NOV 0 Z 1994

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SAULT STE. MARIE

Course Title: GENERAL SCIENCE (B)

Code No.: SCI 098-4

Program: GENERAL ARTS AND SCIENCE

Semester: ONE

Date: JULY 1988

Author: SUBHASH VERMA

New:

Revision:

APPROVED:


Chairperson

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GENERAL SCIENCE (B)

SCI 098-4

Course Name

Course Number

PHILOSOPHY/GOALS

This is a preparatory course in general science to give a student a basic understanding of the scientific methods and a specific knowledge of EARTH, SPACE SCIENCE AND PHYSICS.

METHOD OF ASSESSMENT:

Class Participation	25%
a) Attendance - 80% required	
b) Punctuality in assignments	
Laboratory and Homework Assignments	25%
Tests	50%
Topic tests are of equal value	
Grades	100%

- A+ = 85% +
- A = 80-84%
- B = 70-79%
- C » 60-69%

The minimum passing grade is 60% this being a composite derived from the overall course assessment. Grades from 50% to 60% will allow a student the right to an overall course supplemental provided that the attendance requirement has been met, and all laboratory and homework assignments are complete and submitted. All lower grades or failure to meet other requirements specified above will result in a failure.

The teacher retains the right to modify the course content during the duration of the course, as time constraints may not permit all topics to be covered.

TEXTBOOKS

- 1) Brockway, C.S.; Gardner, R.; Howe, S.F.; GENERAL SCIENCE, Allyn and Bacon, Inc., Newton Mass.
- 2) Brockway, R.; Howe, S.F.; Husted, B.; Jones, H.; Rieck, G.W.; GENERAL SCIENCE (ACTIVITY BOOK), Allyn and Bacon, Inc., Newton, Mass.

SC1 097

HOURS

TOPICS

EARTH AND SPACE SCIENCE (UNIT THREE IN TEXT)

9

1 Earth Materials

- 1.1 Minerals
- 1.2 Rocks *
- 1.3 Fossils
- 1.4 The Water Cycle
- 1.5 Drinking Water
- *1.6 Geologic and Topograph Maps

2. Earth's Changing Crust

- 2.1 Weathering
- *2.2 Soils
- 2.3 Erosion
- 2.4 Deposition
- 2.5 Plate Tectonics
- 2.6 Earthquakes
- 2.7 Volcanoes

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3. Weather

- 3.1 Atmosphere
- 3.2 Wind
- 3.3 Wind Patterns
- 3.4 Clouds and Precipitation
- 3.5 Storms
- 3.6 Weather Predictions
- *3.7 Climate

4. Oceans

- 4.1 Composition of Sea Water
- 4.2 Waves
- 4.3 Tides
- 4.4 Currents
- 4.5 Sediments
- 4.6 Features of the Ocean Floor
- r4.7 Resources of the Ocean

SCI 098

HOURS

TOPICS

- 5. Astronomy
- 5.1 Planet Earth
- 5.2 Earth's Moon
- 5.3 The Solar System
- 5.4 The Sun
- 5.5 The Universe
- ^P5.6 Tools of Astronomy

PHYSICS (UNIT FOUR IN TEXT)

- 9 6. Motion and Force
- 6.1 Motion
- 6.2 Newton's First Law of Motion
- 6.3 Newton's Second Law of Motion
- 6.4 Newton's Third Law of Motion
- 6.5 Gravity
- 6.6 Weight and Mass
- 6.7 Falling Objects
- » *6.8 Circular Motion
- 9 7. Work and Energy
- 7.1 Work
- 7.2 Machines
- 7.3 Simple Machines
- 7.4 Efficiency of Machines
- 7.5 Work and Energy
- *7.6 Perpetual Motion Machines
- 7.7 Power
- 9 8. Heat
- 8.1 Heat and Temperature
- 8.2 Temperature and Pressure
- *8.3 Specific Heat
- 8.4 Transferring Heat
- 8.5 Transformation of Energy
- 8.6 Solar Energy
- 8.7 Other Energy Sources
- 8.8 Heating and Cooling Systems

SCI 098

IHOURS

TOPIC

- 9. Electricity and Magnetism
- 9.1 Electric Charge
- 9.2 The Electrical Nature of Matter
- 9.3 Static Electricity
- 9.4 Current Electricity
- 9.5 Series and Parallel Circuits
- 9.6 Magnetism
- 9.7 Electricity From Magnetism
- 9.8 Using Electricity at Home
- '9.9 Saving Electricity
- 10. ~~Light and Sound~~
- 10.1 Introduction to Light
- 10.2 Mirrors
- 10.3 Lenses
- 10.4 The Nature of Light
- 10.5 The Electromagnetic Spectrum
- *10.6 Colour
- 10.7 Sound
- 10.8 Sound and Light

* These are enrichment topics which may be skipped.