

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

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COURSE OUTLINE

SAuSAULT'STE. MARIE ,-,rtY

Course Title: GENERAL SCIENCE (B)
Code No.: SCI 098-4
Program: GENERAL ARTS AND SCIENCE, 1009, 1001
Semester: ONE AND TWO
Date: JULY, 1987
Author: J. GIGUERE

New: X Revision:

APPROVED:


Chairperson

Date S

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 method, 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

100%

Grades

- A - 80 - 100%
- B - 70 - 79%
- C - 60 - 70%

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 Maps
 - *1.6 Geologic and Topograph
 - ~~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
- 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
 - *4.7 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
- "5.6 Tools of Astronomy

PHYSICS (UNIT FOUR IN TEXT)

- 6. Motion and Force
- fi*2 Ne'wto'n's First Law of Motion
- 6*3 Neon '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
- 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
- 8. Heat
- 8.1 Heat and Temperature
- 8.,2 Temperature and Pressure
- 8.,3 Specific Heat
- 8.,3 Transferring Heat
- 8..4 Transformation of Energy
- 8..5 Solar Energy
- ~~8.6~~ Other Energy Sources
- 8.7 Heating and Cooling Systems
- 8.8

SCI 098

HOURS

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.