

TOTAL ENERGY HOUSEHOLD MANUAL  
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# SAULT COLLEGE

of Applied Arts and Technology

page 1

443 Northern Ave., P.O. Box 60  
Telephone 949-2050  
SAULT STE. MARIE, Ontario  
P6A 5L3

Dear Student,

Welcome to General Science. This course, along with Mathematics, and Communications A and B form the College Preparation Program.

The goal of the College Preparation Program is to give you opportunities to upgrade your knowledge and prepare you for the courses that you will take at the college level.

We hope you will find your courses interesting and challenging. Remember, we are here to help you. Feel free to call us if problems arise.

Good luck!!!

Sincerely,

Susan Barber,  
Distance Education Unit,  
Sault College.

COURSE INFORMATION SHEET

COURSE NAME: GENERAL SCIENCE

COURSE NUMBER: 097

COURSE SECTION: 90

COURSE DESCRIPTION:

General Science is a preparatory course in science designed to give the student a basic understanding of the nature of science and the scientific method. General Science 097 concentrates upon Life Science and Chemistry.

This course is delivered in a distance education format. Upon registration, course materials will be sent to you. Weekly meetings by telephone with a teacher will be held. For this course the meetings will be on THURSDAY FROM 7:15 TO 9:00PM. Meetings will take place in your local Contact North Site unless otherwise stated.

General Science is a 60 hour course and will run for 12 weeks. The first week will be a Student Orientation and the last week, an exam. That means that you should devote about 6 hours per week to this course.

COURSE COST INCLUDING MATERIALS: \$121.00

TO REGISTER CONTACT THE REGISTRAR, SAULT COLLEGE.

## COURSE OBJECTIVES

Throughout this course you will read the word objective quite often and may wonder what it means. Another word for objective would be goal, that is, these are the goals you are to work towards in order to pass this course. The objectives outline what the student needs to learn and that is why they are written using action verbs.

UPON COMPLETION OF THIS COURSE YOU SHOULD BE ABLE TO:

1. List the steps in the Scientific Method and carry out successful observations and experiments.
2. Use mathematics as a scientific tool, and use the metric SI system in calculation.
3. Name the three main branches of science and their offshoots, and define the difference between pure and applied science.
4. Describe the three main organ systems of the human body and how they work.
5. Identify the parts of the human body cell and describe how the cells use food and oxygen to produce energy for the body's activities.
6. Explain how the body uses nutrients, water and oxygen as sources of energy, for the repair of body tissues, and in the regulation of body processes.
7. Describe how food energy is measured, do calculations involving food energy in SI units, and plan a balanced diet.
8. Describe the five human senses, as well as the structure and workings of the body's sense organs.
9. Explain how sound is measured on the decibel scale, and do calculations involving sound using power of ten notation and SI units.
10. Name and describe six forms of energy and how energy changes from one form to another, and give examples of everyday uses of energy.
11. Discuss the need for energy conservation and identify ways to save energy consumption in the home.
12. Name the parts of an atom, explain radio-activity and its dangers, and describe three types of radiation and their uses.

## METHOD OF EVALUATION

Grading A + 90 - 100

A 80 - 89

B 70 - 79

C 60 - 69

A "C" is a pass in this course, which follows Sault College's policy regarding grading.

Attendance and Participation in the weekly teleconferences are very important and necessary for meeting the course objectives.

<u>EVALUATION PROCESS</u>	<u>MARKS</u>
1. Attendance .....	50
2. Participation .....	50
3. Assignments .....	200
4. Final examination .....	100
5.	
 TOTAL	 400 (your mark out of 400 will be converted to a mark out of 100)

To be successful in this course you must be organized. Make every effort to ensure that your assignments reach the instructor on time. If you are unable to do so, please contact your instructor to make arrangements.

College policies regarding exam procedure can be found in the student handbook.

REQUIRED MATERIAL

Print Hailing Checklist

Each student enrolled in General Science should receive the following learning materials. Please check your package and contact the Distance Education Unit at Sault College or your instructor if you find items missing.

PRESENT

STUDENT ORIENTATION SOURCEBOOK .....

UNITS 1 TO 5

WORLD OF METRIC ACTIVITY BOOK

PERIODIC TABLE OF THE ELEMENTS

HYPOTHERMIA AND HYPERTHERMIA (pamphlet)

RADIATION AND MAN .....

FOOD AND YOUR HEART (one sheet)

ASSIGNMENT FILE

There are additional resources located at your local Contact North Centre. They include:

VIDEOTAPE, "Sault College Student Orientation" . This videotape accompanies the Student Orientation Sourcebook that you received with your other learning materials. You will watch the video during the first class. The Student Orientation is organized to help you with your study skills.

STUDY SCHEDULE

WEEK 1: Teleconference Date: May 5, 7:15 pm

- Student Orientation Video
- Course Introduction

WEEK 2: Teleconference Date: May 12, 7:15 pm

- Unit 1, What is science?

WEEK 3: Teleconference Date: May , 7:15 pm

- Unit 2, How does your body get its energy?
- Assignment

WEEK 4: Teleconference Date: May 26, 7:15 pm

- Unit 2, How does your body get its energy?
- Assignment

WEEK 5: Teleconference Date: June 2, 7:15 pm  
-Unit 3, What is good nutrition?  
-Meal Assignment

WEEK 6: Teleconference Date: June 9, 7:15 pm  
-Unit 3, What is good nutrition?  
-Assignment

WEEK 7: Teleconference Date: June 15, 7:15 pm  
-Unit 4, What are the senses?  
-Assignment

WEEK 8: Teleconference Date: June 23, 7:15 pm  
-Unit 4, What are the senses?  
-Assignment



WEEK 9: Teleconference Date: June 30, 7:15 pm  
-Unit 5, The consumer and science.  
-Assignment

WEEK 10: Teleconference Date: July 7, 7:15 pm  
-Unit 5, The consumer and science.  
-Assignment

WEEK 11: Teleconference Date: July 14, 7:15 pm  
-Review week and catch-up  
-Assignment review

WEEK 12: Teleconference Date: July 21, 7:15 p  
-Final Examination (Good Luck!!!)

Do your best not to get behind on your assignments and study schedule. Remember, students on campus attend classes 4 hours a week and do extra homework. You must be prepared to put in the same amount of time.