

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

COURSE OUTLINE

Course Title: BIOLOGY

Code No.: BIO 101-5

Program: NURSING

Semester: ONE

Date: SEPTEMBER 1989

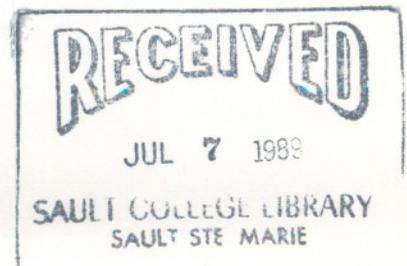
Author: MARGARET HURTUBISE

New: _____ Revision: X

APPROVED:

Margaret Hurtubise
Chairperson

Date _____



BIOLOGY

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CALENDAR DESCRIPTION:

The Biology course deals with the structure and function of the human body.

This course also includes common stimuli which affect the structure and function of man as well as man's adaptive responses, which enable him to maintain a relatively constant state.

Understanding the human body and how it reacts to various stimuli will enable the student to relate this knowledge to the practice of nursing.

GENERAL OBJECTIVES:

1. Describe biological adaptation in relation to the structure and function of the human body.
 - a) Describe the structure of the human body.
 - b) Describe the function of the human body.
 - c) Describe the relationship of function to structure in the human body.
 - d) Describe the changes that occur in structure and function throughout the life cycle from conception to death.
2. Explain the concept of biological adaptation.
 - a) Describe the biological stimuli that impinge upon man.
 - b) Explain the concept of adaptation using examples from the biological mode.
 - c) Describe the variables that influence biological responses.
 - d) Illustrate adaptive and/or ineffective biological responses.
 - e) Describe how an individual maintains and promotes biological adaptation.

METHOD OF ASSESSMENT (GRADING METHOD):

| | | |
|---------|----|-----------|
| GRADING | A+ | 90 - 100% |
| | A | 80 - 89% |
| | B | 70 - 79% |
| | C | 60 - 69% |

Please note that a pass in Biology is a "C".

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NOTE:

1. Absence from Tests

If you are unable to attend class for a test, you MUST contact the Health Sciences Office (759-6774, Ext. 689) before the test. If the test is at 0830 hours you must contact the office before 0900 hours. If you fail to do so, you will not be allowed to write and will receive a mark of zero. You must make individual arrangements with me on the first day back to school. If you fail to do so you will not be allowed to write and will receive a mark of zero.

Those students who are given the opportunity to write the test at a later date may have a change in the test format (ie. - from multiple choice to short answer, essay, oral, or a combination of each).

2. Supplemental Examinations

A supplemental examination may be offered in this course at the discretion of the teacher subject to the following criteria:

- a) A student must have achieved a passing grade (60%) on at least two (2) of the term tests (2 out of 4); and a mark of at least 50% on the diagram test as well as the final examination.
- b) The entire semester's course material will be tested.
- c) Multiple choice questions, short answer questions and diagrams to be labelled will be used in the supplemental examination.
- d) The final grade for the semester will be based solely on the supplemental examination but the grade achieved will not be higher than a "C". The term mark will not be averaged in with the supplemental examination mark.
- e) There will only be one supplemental examination allowed for this course.

3. Excellent attendance will be used to improve borderline marks.

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| | | |
|-------------------|----------------|---------------|
| <u>TERM WORK:</u> | Unit Tests | 200 marks |
| | Diagram Test | 50 marks |
| | | <hr/> |
| | | 250 marks |
| | Final Exam | 150 marks |
| | | <hr/> |
| | | 400 marks |

Final mark = $\frac{\text{Your mark out of a possible 400}}{4} = \%$

TENTATIVE TEST SCHEDULE:

| <u>DATES</u> | <u>UNITS</u> | <u>MARKS</u> | <u>YOUR MARK</u> |
|---|--|--------------|------------------|
| Week of Oct. 2, 1989 | Overview and the Cell | 50 | |
| Week of Oct. 16, 1989 | Microbiology | 30 | |
| Week of Nov. 6, 1989 | Musculoskeletal System | 60 | |
| Week of Nov. 27, 1989 | Nervous System & Special Senses | 60 | |
| Week of Dec. 11, 1989 | Diagram Test | 50 | |
| Week of Dec. 18, 1989 | Final Exam | 150 | |
| Final Exam covers all material from Sem. I | (Endocrine & Integumentary Systems will be tested on final exam) | | |

Keep track of all your own test marks so that you may calculate your own term mark.

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TEXTBOOKS(S):

Anatomy and Physiology, Thibodeau, G.A., Times Mirror/Mosby College Publishing, Toronto, 1987.

Biology Workbook Semester 1.

UNITS AND HOURS:

| | |
|---|---------------------|
| 1. Introductory Overview | 6 |
| 2. The Smallest Unit (Cell) | 8 |
| 3. Microbiology | 8 |
| 4. Support Systems | 12 |
| 5. Biological Regulators | |
| a) Neural Control Mechanisms | 12 |
| b) Sensory Control Mechanisms | 7 |
| c) Thermal Control Mechanisms | 4 |
| d) Hormonal Control Mechanisms | 8 |
| 6. Support Systems | 12 |
| Review | 1 |
| Tests and Examinations | 7.5 |
| Extra biology help and review approximately | 12 hours (optional) |