

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 1988

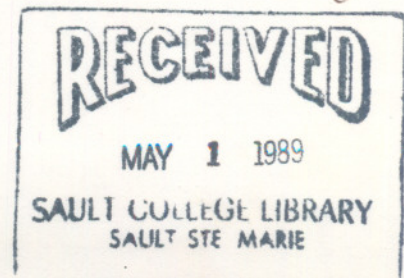
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New: _____ Revision: X

APPROVED:

Margaret Hurtubise
Chairperson

May 19/89
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 adaption.
 - 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.

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
		<u>250 marks</u>
	Final Exam	150 marks
		<u>400 marks</u>

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

TENTATIVE TEST SCHEDULE:

<u>DATES</u>	<u>UNITS</u>	<u>MARKS</u>	<u>YOUR MARK</u>
Week of Oct. 3, 1988	Overview and the Cell	50	
Week of Oct. 17, 1988	Microbiology	30	
Week of Nov. 7, 1988	Nervous System	60	
Week of Nov. 28, 1988	Endocrine System & Special Senses	60	
Week of Dec. 19, 1988	Diagram Test	50	
Week of Dec. 19, 1988	Final Exam	150	
Final Exam covers all material from Sem. I	(Support System 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	6
4. Biological Regulators	
a) Neural Control Mechanisms	14
b) Hormonal Control Mechanisms	7
c) Thermal Control Mechanisms	1
d) Sensory Control Mechanisms	1
e) Special Senses	7
5. Support Systems	13
Review	1
Tests and Examinations	7.5

Extra biology help and review approximately 12 hours (optional).