

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 1986 _____

Author: MARGARET HURTUBISE _____

New: _____ Revision: X

APPROVED: _____
Chairperson Date

BIOLOGY

BIO 101-5

Course Name

Course Number

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 variable 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".

NOTE: If you are unable to attend class for a test, you MUST contact the Health Sciences Office (949-2050, Ext. 290) before the test. If the test is at 0800 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. Students who do not pass any of the tests and do not pass the final exam will not be given the privilege of writing the supplemental exam. They will receive an "R". Students who are given the opportunity to write the supplemental exam and pass will receive a "C". Excellent attendance will be used to improve borderline marks.

<u>TERM WORK:</u>	Unit Tests	200 marks
	Diagram or Lab 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 Sept. 22, 1986	Overview and The Cell	50	
Week of Oct. 6, 1986	Microbiology	40	
Week of Nov. 10, 1986	Nervous System Endocrine System	70	
Week of Nov. 24, 1986	Thermal & Sensory Control and Special Senses	40	
Week of Dec. 15, 1986	Diagram Test	50	
Week of Dec. 15, 1986	Final Exam will be on - and covers all material from Sem. I	Musculoskeletal System (approx. 45 questions)	Total = 150

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

TEXTBOOKS(S):

Anthony, C.P., and Thibodeau, G.A., Anatomy and Physiology, 11th Edition, C. Mosby, Toronto, 1983.

Biology Workbook Semester 1.

UNITS AND HOURS:

1. Introductory Overview	6
2. The Smallest Unit (Cell)	9
3. Microbiology	7
4. Biological Regulators	
a) Neural Control Mechanisms	15
b) Hormonal Control Mechanisms	6
c) Thermal Control Mechanisms	2
d) Sensory Control Mechanisms	2
e) Special Senses	8
5. Support Systems	14
Tests and Examinations	6

75 hours

Extra biology help and review approximately

10 hours (optional)