

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



COURSE OUTLINE

COURSE TITLE: Structure and Function I

CODE NO. : BIO1100

SEMESTER: 1

PROGRAM: Massage Therapy

AUTHOR: Lise St. Hilaire, Allan Kary

DATE: Sept/02

PREVIOUS OUTLINE DATED: Sept/01

APPROVED:

DEAN

DATE

TOTAL CREDITS: 2

PREREQUISITE(S): none

HOURS/WEEK: 2

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For additional information, please contact Judi Maundrell, Dean
School of Health and Human Services
(705) 759-2554, Ext. 603/689

I. COURSE DESCRIPTION:

This course provides an overview of all the systems of the human body. The cells, tissues and integumentary system are explored in depth. Microbiology is also introduced with a focus on the types and structure of infectious agents.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Outline the basic location, structure and function of the major organs and systems of the body.
2. Describe homeostasis and the processes involved in its maintenance such as feedback systems.
3. Describe the structure, function and reproductive cycle of a typical cell and its components. Discuss protein synthesis.
4. Describe the structure and function of the four major types of tissues.

Potential Elements of the Performance:

- a) List and differentiate between the 4 types of tissues.
 - b) Describe each type of epithelial tissue and differentiate between types.
 - c) Describe each type of connective tissue (excluding in depth structure of blood) and differentiate between types.
5. Describe bone growth, remodelling and healing of fractures.
 6. Identify the components of bone and contrast structure of compact and spongy bone.
 7. Identify the bony classifications and functions of bony tissues.
 8. Describe the structures and layers of the skin.
 9. Describe the functions of the skin.
 10. Describe circulation of the skin and the role of vasoconstriction/vasodilation in thermoregulation.
 11. Describe the cell types and structures of the integumentary system.

III. TOPICS:

1. Overview of the major organs and systems of the body
2. Homeostasis
3. Cells
4. Histology
5. Integumentary System
6. Microbiology
7. Bone Growth and Development

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Marieb, Elaine. (2001). Human Anatomy and Physiology (5th ed.). Benjamin Cummings.

Stedman's Concise Medical Dictionary for the Health Professions (4th ed.). Lippincott, Williams & Wilkins.

V. EVALUATION PROCESS/GRADING SYSTEM:**Evaluation Methods:**

The evaluation methods and procedures for missed exams will be discussed and a written copy will be given to students during the first two weeks of class.

Supplemental Exam:

One opportunity for a supplemental exam will be offered to students who meet the following criteria:

- a) have a grade of 50 – 59% in the course
- b) have attended at least 80% of the scheduled class time

The final grade for the semester will be based solely on the supplemental exam. The grade achieved will not be higher than a "C".

The following semester grades will be assigned to students in postsecondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 - 100%	4.00
A	80 - 89%	3.75
B	70 - 79%	3.00
C	60 - 69%	2.00
R (Repeat)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
U	Unsatisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade. This is used in limited situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see <i>Policies & Procedures Manual – Deferred Grades and Make-up</i>).	
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has not been possible for the faculty member to report grades.	

VI. SPECIAL NOTES:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.