

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



**COURSE OUTLINE**

**COURSE TITLE:** Human Anatomy & Physiology

**CODE NO. :** BIOL2105 **SEMESTER:** 1,2

**PROGRAM:** Collaborative BScN

**AUTHOR:** Leslie Uhlig, Room D1201, leslie.uhlig@saultc.on.ca

**DATE:** June/03 **PREVIOUS OUTLINE DATED:** Sept./02

**APPROVED:**

\_\_\_\_\_

**DEAN** **DATE**

**TOTAL CREDITS:** 6

**PREREQUISITE(S):**

**HOURS/WEEK:** 6

**Copyright © 2003 The Sault College of Applied Arts & Technology**  
*Reproduction of this document by any means, in whole or in part, without prior written permission of Sault College of Applied Arts & Technology is prohibited.*  
*For additional information, please contact the Dean*  
*School of Health and Human Services*  
*(705) 759-2554, Ext. 603/689*

**I. COURSE DESCRIPTION:**

This course describes human anatomy and physiology at the cellular, tissue, organ and system levels of organization. Aspects of this course will concentrate on the clinical applications of anatomy and physiology.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**

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

1. Utilize the terminology related to the structure and function of the human body.
2. Recognize the interrelationships of cells, tissues, organs and body systems from both an anatomical and physiological perspective.
3. Differentiate the basic chemical concepts and principles as they are related to the anatomy and physiology of the human body.
4. Describe the location, structure and function of the organs of the stated major organ/body systems.
5. Recognize the major tissue types, their location, structure, function and roles throughout the human body's major body systems.
6. Analyze the interrelationships of body organ systems, homeostasis and the complementarity of structure and function.
7. Recognize the connections between homeostasis (and the mechanisms by which the body maintains it) and the state of health in a human body.
8. Understand that in order to evaluate the health status of a patient, a thorough understanding of the healthy human body (both anatomical and physiological) is required.

**III. TOPICS:**

- 1.. Introduction to the Human Body
2. Cell Structure and Function
3. Histology
4. Integumentary System
5. Skeletal System
6. Joints
7. Muscular System
8. Nervous System
9. Special Senses
10. Endocrine System
11. Circulatory System: Blood
12. Circulatory System: Blood Vessels
13. Lymphatic System
14. Immune System
15. Respiratory System
16. Digestive System
17. Basic Nutrition and Metabolism
18. Urinary System
19. Male Reproductive System
20. Female Reproductive System

**IV. REQUIRED RESOURCES/TEXTS/MATERIALS:**

**The following text package from John Wiley & Sons, Inc. is required (special package ISBN # 0471-488402) and contains:**

Principles of Anatomy & Physiology by Gerard J. Tortora and Sandra Reynolds Grabowski. 2003. 10e, Slipcase edition.

Learning Guide, Principles of Anatomy & Physiology by K.S. Presbindowski, G.J. Tortora and S.R. Grabowski. 2003. 10e

Laboratory Manual for Anatomy & Physiology by Connie Allen and Valerie Harper. 2003. 1e.

Cat Dissection A Laboratory Guide by Connie Allen and Valerie Harper. 2003. 1e

**The following text is also required:**

A Photographic Atlas for the Anatomy & Physiology Laboratory by Kent M. Van De Graaff and John L. Crawley. 2003. Morton Publishing Company, Englewood, California. ISBN 0-89582-630-5.

**Additional materials required include the following:**

One dissecting kit (available in Campus Shop). Contains scalpel, fine scissors, forceps and probe).

2-3 Boxes of disposable surgical gloves (for dissection purposes).

One bound notebook of 8.5" X 11" drawing paper (available at Staples on Great Northern Ave.)

Drawing pencils of 3H (very hard) lead. You will need several. A good eraser (i.e. Staetler Mars white) is also recommended.

A clean, white, full-length lab coat is required.

Students will be expected to purchase their own replacement scalpel blades (available in Campus Shop).

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

1. The pass mark for this course is 50%. It is composed of lecture tests, a final lecture exam, laboratory tests, laboratory quizzes and laboratory assignments (drawings).

2. Evaluation Methods:

<b>Lecture Portion:</b>	<b>% of Final Grade</b>
Term Test 1	10%
Term Test 2	10%
Term Test 3	10%
Term Test 4	10%
Final Exam (Lecture Material)	25%

**Laboratory Portion:**

Lab Test 1	7.5%
Lab Test 2	7.5%
Lab Quizzes            Random	10%
Lab Drawings & Dissection Technique	10%

3. Failure to attend a test is only valid with a medical certificate or on compassionate grounds, under which conditions a makeup test can be arranged with the instructor. The instructor must be notified by the student of an absence no later than one week after the original test date. The makeup test may not follow precisely the same format as the originally scheduled test.

4. Students missing the final exam because of illness or other **SERIOUS** reason must inform the professor **BEFORE** the exam. Those students who have informed the instructor of their absence, according to policy, will be eligible to arrange an opportunity as soon as possible to write the exam at another time. Those students who **DO NOT NOTIFY** the professor will receive a zero grade for that exam.
5. Students receiving borderline marks (59, 69, 79, 89) may have their mark advanced to the next category if they have attended at least 80% of the classes.
6. Course Grading Scheme:

<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
D	50-59%	1.00
F (Failure)	49% 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	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 &amp; 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:**

**Attendance**

Students are expected to attend all classes and laboratory exercises. Various handouts may be given out during class/lab and students are responsible for keeping up with the material missed. The easiest way to keep up is to **ATTEND CLASS**.

**PLEASE NOTE:** As is stated in your B.Sc.N. Student Manual: "Punctual and regular attendance at the various academic exercises is required of all students. Unexcused absences in excess of 20% may jeopardize receipt of credit for the course. An unexcused absence is one in which the professor was not notified of the absence. An excused absence includes absences where the professor is notified via voice mail, in person or a written note." This policy will be adhered to **RIGOROUSLY**. It is imperative that for success to occur in this course, attendance be at least 80% for both lectures and laboratory exercises.

### Lectures

The lecture material is drawn from more than one source in addition to the assigned text for this course. Recording of lectures is permitted ONLY with the permission of the instructor. It is expected that students will be in attendance at every lecture; it is always the student's responsibility to obtain missed handouts, notes, etc. All material covered in lecture and readings assigned from the text or other outside sources, will be used for the purposes of tests. Each test covers the material since the preceding test (i.e. tests are not cumulative), with the exception of the final exam, which will cover the entire lecture portion of the course.

### Laboratory

The following laboratory policies are to PROTECT YOU and your fellow students. Students who fail to observe the laboratory policies will be ejected from that laboratory period and possibly from the entire laboratory portion of the course.

***At NO TIME will ANY food or drink be allowed in the laboratory. All clothing must be stored away from the laboratory benches. Shoes MUST be worn at all times and must be closed-toe (i.e. NO SANDALS). No headgear (hats, bandanas, etc.) will be permitted in the laboratory at any time.***

### 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 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.