

**SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY**

**SAULT STE. MARIE, ONTARIO**



**COURSE OUTLINE**

<b><u>COURSE TITLE:</u></b>	Anatomy & Physiology IV		
<b><u>CODE NO. :</u></b>	BIO217	<b><u>SEMESTER:</u></b>	4
<b><u>PROGRAM:</u></b>	Massage Therapy		
<b><u>AUTHOR:</u></b>	Ruth Wilson		
<b><u>DATE:</u></b>	Jan/2000	<b><u>PREVIOUS OUTLINE DATED:</u></b>	Sept/98
<b>APPROVED:</b>	_____		_____
	<b>DEAN</b>		<b>DATE</b>
<b>TOTAL CREDITS:</b>	6		
<b>PREREQUISITE(S):</b>	BIO207		
<b>LENGTH OF COURSE:</b>	6 Hours/Week	<b>TOTAL CREDIT HOURS:</b>	96

**Copyright ©1999 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 Donna Tremblay, Dean  
School of Health, Human Services and Criminal Justice  
(705) 759-2554, Ext. 690*

**I. COURSE DESCRIPTION:**

This course continues to explore the structure and function of the healthy human body. The respiratory, endocrine, digestive, urinary and reproductive systems are studied in depth. The course also includes some basic information on pregnancy and lactation. A regional anatomical study of the thorax, abdomen and pelvis is included.

**II. LEARNING OUTCOMES:**

Upon successful completion of this course the student will be able to:

1. Describe the structure, function, location of the organs of the respiratory (1998), endocrine, digestive, urinary and reproductive systems.
2. Describe major changes occurring during the aging process in the structure and function of the respiratory, endocrine, digestive, urinary and reproductive systems.
3. Demonstrate, through palpation and explanation, the locations of bony landmarks, ligaments, muscles, nerves, blood vessels and other palpable structures of the head, neck and shoulders, abdomen and thorax.
4. Demonstrate the ability to identify surface landmarks of the thorax, abdomen and pelvis.
5. Use analytic thinking to explain normal anatomical and physiological situations.

**III. TOPICS:**

1. Digestive System
  - a) overview of digestive system
  - b) functional anatomy
  - c) physiology of digestion and absorption
2. Urinary System
  - a) kidney anatomy (basic)
  - b) kidney functions
  - c) kidney physiology
  - d) structure and function of the ureters, bladder, urethra
  - e) developmental aspects
  - f) fluid, electrolyte and acid-base balance

**III. TOPICS (Continued)**

3. Endocrine System
  - a) overview of endocrine system and hormone function
  - b) effects of hormones on physiology, metabolism and nervous system
  - c) major structure, secretions and functions of endocrine organs
  
4. Reproductive System
  - a) anatomy of the male reproductive system
  - b) physiology of the male reproductive system
  - c) anatomy of the female reproductive system
  - d) physiology of the female reproductive system
  - e) stages of pregnancy from fertilization to confinement
  - f) stages of labour
  - g) process of lactation
  - h) menopause
  - i) basic concepts of genetics
  
5. Regional Anatomy of the Thorax, Abdomen and Pelvis (Theory and Lab)
  - a) review of bones
  - b) review of joints and ligaments
  - c) detailed description of muscles and tendons
  - d) regional relationship of blood vessels, nerves and muscles
  - e) lymphatic drainage
  - f) surface land marks

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

1. Marieb, Elaine (1998). Human Anatomy & Physiology (4th ed.). The Benjamin/Cummings Publishing Co. Inc.
  
2. Marieb, Elaine. (1998). Study Guide to Accompany Anatomy & Physiology (4th ed.). The Benjamin/Cummings Publishing Co. Inc.
  
3. Stone, R. And Stone J. (1990). Atlas of the Skeletal Muscles. WM. C. Brown Publishers.
  
4. Snell, R.S. (1995). Clinical Anatomy for Medical Students (5th ed.). Little, Brown & Co.

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

**A. Evaluation Methods**

The evaluation methods will be determined and discussed with students the first two weeks of class.

**B. Grading**

1. The pass mark for the course is 60%. The letter grades for this course will be assigned in accordance with those established by Sault College.
2. Students who miss scheduled tests during the semester will not be allowed to write on another day.
3. If the instructor has been appropriately notified of your absence for the test, the test you missed will count for the same percentage as you receive on the final exam. If you have notified your instructor you will receive a grade of 0 for the missed test.
4. Each student must write the final exam, the lab test and do any required assignments.
5. All students must pass the practical lab test as well as the written component in order to receive a pass in this course.

**C. Supplemental Exam**

1. A supplemental examination which tests the entire semester's course material may be offered in this course at the discretion of the instructor.
2. A supplemental exam will only be offered to students who have failed the Biology course.
3. The final grade for the semester will be based solely on the supplemental exam. The grade achieved will not be higher than a "C".
4. Supplemental exams will not be repeated.

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

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 &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 been impossible 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.

**VI. SPECIAL NOTES:**

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, as may be decided by the professor. 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.

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 instructor.

**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.