

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: ANATOMY AND PHYSIOLOGY IV

CODE NO.: BIO 217

SEMESTER: 4

PROGRAM: MASSAGE THERAPY PROGRAM

AUTHOR: RUTH WILSON

DATE: SEPT.97

PREVIOUS OUTLINE DATED: N/A

APPROVED:

Rose for DW
DEAN

July 2/97
DATE

TOTAL CREDITS: 6

PREREQUISITE(S): BIO207

LENGTH OF COURSE: 6 HR/WK

TOTAL CREDIT HOURS: 96

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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. Describe the regional (1998) anatomy of the thorax, abdomen and pelvis.
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. Respiratory System (1998)
 - a) functional anatomy
 - b) mechanics of breathing
 - c) gas exchanges in the body
 - d) transport of respiratory gases by blood
 - e) control of respiration
 - f) developmental aspects
2. Digestive System
 - a) overview of digestive system
 - b) functional anatomy
 - c) physiology of digestion and absorption

III. TOPICS (Continued)

3. 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

4. Endocrine System

- a) overview of endocrine system and hormone function
- b) hormones
- c) major structure, secretions and functions of endocrine organs

5. 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) basic concepts of genetics

6. Regional anatomy of the thorax, abdomen and pelvis

- a) review of bones
- b) review of joints
- c) detailed description of muscles
- d) regional relationship of blood vessels, nerves and muscles
- e) lymphatic drainage
- f) surface land marks

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

1. Marieb, Elaine (1995). Human Anatomy & Physiology (3rd ed.). The Benjamin/Cummings Publishing Co. Inc.
2. Marieb, Elaine. (1995). Study Guide to Accompany Anatomy & Physiology (3rd ed.). The Benjamin/Cummings Publishing Co. Inc. (1998)
3. Kapit and Elson. (1993). The Anatomy Coloring Book (2nd ed.). Harper & Row Publishers. (1998)
4. Stone, R. And Stone J. (1990). Atlas of the Skeletal Muscles. WM. C. Brown Publishers. (ISBN-0-697-10618-7).
5. Snell, R.S. (1995). Clinical Anatomy for Medical Students (5th ed.). Little, Brown & Co. (ISBN-0-316-80435-6).

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.

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V. EVALUATION PROCESS/GRADING SYSTEM (Continued)

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 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.

VI. SPECIAL NOTES:

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office.

The instructor reserves the right to modify the course as deemed necessary to meet the needs of students.

VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor.

