SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: Anatomy & Physiology III

CODE NO. : BIO207 **SEMESTER:** 3

PROGRAM: Massage Therapy

AUTHOR: Allan Kary RMT

DATE: Sept/2001 **PREVIOUS OUTLINE DATED:** Sept/00

APPROVED:

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DEAN **DATE**

TOTAL CREDITS: 7

PREREQUISITE(S): BIO117

HOURS/WEEK: 7

I. COURSE DESCRIPTION:

This course continues to study the healthy human body. Students will study the structure and function of the nervous system. A regional study of the head and neck completes the course.

II. LEARNING OUTCOMES:

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

1. Demonstrate through palpation and explanation, the locations of bony landmarks, ligaments, muscles, nerves, blood vessels and other palpable structures of the upper limbs, lower limbs and back.

2. Describe the regional anatomy of the back, upper and lower limbs.

3. Use analytic thinking skills to explain normal anatomical/physiological situations.

II. TOPICS:

A. Regional Anatomy of the Back, Upper Limbs and Lower Limbs

- including all peripheral nerves and blood vessels and lymphatic drainage.

B. Respiratory Physiology

C. Renal Physiology

- kidney anatomy (basic)
- kidney functions
- kidney physiology
- structure and function of the ureters, bladder, urethra
- developmental aspects
- fluid, electrolyte and acid-based balance

D. Microbiology

- common infective agents
- structure and function of bacterial cell and virus
- chain of infection
- body's defence mechanism
- prevention of infection

E. Lymphatic System

- lymphatic vessels
  - distribution and structure
  - lymph transport
- lymph cells, tissues and organs
- lymph nodes
  - location of superficial nodes (applied)
  - structure and function
- other lymph organs
  - structure and function of spleen, thymus, tonsils

F. Immune System:

1. Non-Specific body defences
   a) surface membrane barriers
   b) non-specific cellular and chemical defences
      - phagocytosis
      - inflammatory process and repair
      - body's antimicrobial substances
      - fever
2. Specific body defences: immunity
   a) antigens
   b) cells of the immune system
   c) humoral immune responses
      - definition
      - structure and function of components and cells
      - active and passive immunity
      - vaccination protocol in Canada
   d) cell mediated immune response
      - definition
      - structure and function of components and cells
   e) homeostatic imbalances
3. Developmental aspects of immunity

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Biel, Andrew. (1997). Trail Guide to the Body. Andrew Biel.

Kaput, The Anatomy Colouring Book, Harper-Collins.

Marieb, Elaine. (1998). Human Anatomy and Physiology (4th ed.). The Benjamin/Cummings Publishing Co. Inc.

Moore, Keith. (1999). Clinical Oriented Anatomy. (4th ed.). Lippincott.

Taber's Cyclopedic Medical Dictionary, (latest edition). F.A. Davis.

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 not 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.

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

Grade	Definition	Grade Point Equivalent
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 *Policies & Procedures Manual – Deferred Grades and Make-up*).	
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.