

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: PATHOPHYSIOLOGY I

CODE NO.: BIO208

SEMESTER: 3

PROGRAM: NURSING

AUTHOR: DAVID KELLY

DATE: JULY, 1997

PREVIOUS OUTLINE DATED: AUG/96

APPROVED:


DEAN


DATE

TOTAL CREDITS: 2

PREREQUISITE(S): BIO118, NUR116

LENGTH OF COURSE: 3 HOURS/WEEK

TOTAL CREDIT HOURS: 42

PATHOPHYSIOLOGY I

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I. COURSE DESCRIPTION:

This course introduces the learner to the processes of human disease, by exploring how alterations in homeostatic mechanisms disrupt the structure and function of the human body. Overall mechanisms of disease have been categorized into concepts. These concepts will be examined in terms of common health problems for the effect which they can produce on the structure and function of body systems. In addition, the learner will examine the principles of diagnostic testing, and the principles of common treatment modalities.

II. LEARNING OUTCOMES:

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

1. explain the basic concepts of pathophysiology and the general principles of disease.
2. demonstrate how the human body deals with the dynamic aspects of a disease process.
3. analyze common dysfunctions of an organ or organ system, and the effect on the human body as a whole.
4. explain the principles and uses of diagnostic testing common in disease processes.
5. explain the principles of treatment modalities used for common health problems.

III. TOPICS:

Content will be examined under the following concepts:

- Homeostasis and balances
- Stress response

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III. TOPICS (Continued)

- Challenges to homeostasis:
 - genetic abnormalities
 - changes in cell structure and function
 - neoplasms
 - restriction
 - obstruction
 - infection
 - excess/deficiency
 - alterations in biological integrity
 - iatrogenic causes
- Principles of diagnostic testing
- Principles of treatment modalities

Units:

- Introduction to pathology
- Introduction to diagnostic testing
- Neoplasms
- Fluid, electrolyte and acid/base imbalances
- Hematological
- Nervous system
- Special senses
- Immune system
- Surgical related

IV. REQUIRED RESOURCES:

Smeltzer, S. & Bare, B. (1996). Brunner & Suddarth's Textbook of Medical-Surgical Nursing (8th ed.). Toronto: Lippincott.

MacDermott, B., & Dealie, J. (1994). Understanding Basic Pharmacology: Practical Approaches for Effective Application. Canada: Login Brothers.

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IV. REQUIRED RESOURCES (Continued)

Skidmore-Roth, L. (1994). Mosby's 1995 Nursing Drug Reference. Toronto: C.V. Mosby Company.

V. EVALUATION PROCESS/GRADING SYSTEM:

1. The pass mark for the course is 60%. The course mark is composed of:

| | |
|-----------------------------|-----|
| Test #1 | 20% |
| Test #2 | 20% |
| Final Exam | 40% |
| Assignment: visual problems | 5% |
| Assignment: breast cancer | 15% |

2. Students may be eligible for a rewrite of the two tests and the final exam, subject to the following criteria:
 - a) for a rewrite of the final exam, the student must have achieved a score of 50% on both of the two tests and the final exam;
 - b) for a rewrite of the final exam, the student must have attended 70% of the classroom learning activities, and
 - c) if a student needs to rewrite the final exam, the highest score which can be achieved for the course is 60% (C).

3. Students may resubmit the research papers to obtain a passing grade. The policy regarding extensions and late submissions as detailed in the Student Success Guide is in effect.

VI. SPECIAL NOTES:

Special Needs

If you are a student with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations confidentially with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493, 717, 491 so that support services can be arranged for you.

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VI. SPECIAL NOTES (Continued)

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 post-secondary institutions.

Substitute Course Information is available at the Registrar's Office.

Plagiarism

Students should refer to the description of "academic dishonesty" in the Statement of Student Rights and Responsibilities.

Your instructor reserves the right to modify the course as he/she deems 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.

