

I. COURSE DESCRIPTION:

This course focuses on human pathophysiology. Opportunities are provided to translate knowledge of such science to inform nursing practice. Learners are required to integrate new and prior learning.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**Ends-in-view**

Upon completion of the course, the learner will be able to:

- Describe and explain basic principles, concepts and processes of pathophysiology that include: cellular communication; forms of cell injury; fluid and electrolyte and acid-base imbalance; immunity and inflammation; mechanisms of infection; and tumor biology.
- Demonstrate knowledge of the pathophysiology of common diseases and injury by describing functional alterations within body systems.
- Use pathophysiology terminology to communicate clients' health status.
- Describe the pathophysiology underlying client conditions and the associated clinical manifestations.
- Describe how the pathophysiology underlying client conditions guides client care and informs nursing judgment.

Process

Learning will be facilitated through the use of on-line resources and classroom presentations and discussion. Integration of content from BSCN 2107 and previous and current nursing and science courses will demonstrate how nurses use knowledge of pathophysiology to understand clinical manifestations, guide client care and inform nursing judgment. Learning activities provide opportunities to become increasingly self-directed.

III. TOPICS:

Week

- 1 Introduction & Alterations in Cells and Tissues and Cancer
- 2 Immunity, Inflammation, Infections, Hypersensitivities
- 3 Fluids, Electrolytes, Acid-Base and Haematological System
- 4 Alterations of the Endocrine System
- 5 Alterations of Cardiovascular Function
- 6 Alterations of Pulmonary/Respiratory Function
- 7 Study Week
- 8 Mid-term
- 9 Alterations of the Neurological System
- 10 Alterations of Gastrointestinal System
- 11 Alterations of Renal and the Urinary Tract Function
- 12 Alterations of Musculoskeletal System
- 13 Alterations of the Integumentary System

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- Sequencing of topics/assignments subject to change based on teaching/learning needs.

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Huether, S.E., & McCance, K.L. (2012). *Understanding pathophysiology*. (6th ed.). St. Louis, MO: Elsevier Mosby

Pathophysiology Online for Understanding Pathophysiology (6th ed). (*User Guide and Access Code*). Refer to page 2 of the course syllabus for instructions on how to access the on-line resource with your access code.

If you have an earlier edition of the required textbook, you can purchase the on-line resource on its own.

Recommended Resources/ Additional Resources

Selected case studies will be provided with selected learning activities. Other resources include:

- A medical/surgical nursing textbook
- A pharmacology textbook
- A physical examination and health assessment textbook
- A maternal/child textbook
- A medical/nursing dictionary
- A manual of laboratory and diagnostic tests
- An anatomy and physiology textbook

V. EVALUATION PROCESS/GRADING SYSTEM:

1.	Weekly online quizzes	20%
	<i>On a weekly basis, all learners are required to complete the assigned readings and preparatory learning activities. Weekly quizzes will be administered on-line to assess learning and understanding of readings and preparatory work. A total of 9 quizzes will be administered over the semester. Marks from 8 quizzes will be used to calculate the learner's grade. Weekly quizzes will begin on Week 2.</i>	
2.	Group case study	10%
2.	Midterm Test	30%
3	Final Exam	40%
		100%

- Attendance is highly recommended for all students
- Missed exams or assignments will be graded "0".
- Students must complete their case study, midterm exam, and final exam to be eligible for a final grade in BSCN 2107.

Please Note: This course requires independent reading, completion of on-line modules, preparation and class participation.

The following semester grades will be assigned to students in post-secondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	

X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

It is also important to note, that the minimum overall GPA required in order to graduate from a Sault College program remains 2.0.

All BSCN/NURS courses require 60% for a passing grade.

If a faculty member determines that a student is at risk of not being successful in their academic pursuits and has exhausted all strategies available to faculty, student contact information may be confidentially provided to Student Services in an effort to offer even more assistance with options for success. Any student wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.

VI. SPECIAL NOTES:

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session. *It is the departmental policy that once the classroom door has been closed, the learning process has begun.*

VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal/LMS form part of this course outline.