

MORAVIAN COLLEGE

COURSE NO: Nursing 205

COURSE TITLE: Pathophysiology

TERM: Spring, 2016 RN-BSN

INSTRUCTOR: Joyce A. Brill MSN, CPNP-AC, PhD (candidate)
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Office Hours: Mondays 9:30-11:30, Thursday 1:30-3:30, and by appointment.

TEXTBOOKS:Required:

Porth, C.M. (2014). *Essentials of pathophysiology: concepts of altered health states (3rd ed)*. Philadelphia, PA: Lippincott Williams & Wilkins.

TECHNOLOGY:Required:

Moravian College-issued MacBook Pro and iPads.

PREREQUISITES:

Biology 103 and 104 (or their equivalents)

COURSE DESCRIPTION:

Mechanisms of disease in humans. Emphasis is on dysfunction at the cellular, tissue, and organ levels. Chemical, physical, and genetic stress factors are examined to understand how they affect human systems.

COURSE OBJECTIVES:

By the conclusion of this course, the student will be able to:

1. Understand genetic, cellular, and tissue adaptive responses to stress and injury.
2. Recognize the etiology and pathogenesis of common diseases.
3. Discuss the natural history and clinical manifestation of common diseases.
4. Describe the relationship between pathophysiological processes and alterations in body structure and/or function.

TEACHING METHODS:

Lecture, discussion, select audiovisuals, case study analyses.

EVALUATION:

Course grades are based on the following numerical equivalencies:

A	=	93-100
A-	=	90-92.99
B+	=	87-89.99
B	=	83-86.99
B-	=	80-82.99
C+	=	77-79.99
C	=	73-76.99
C-	=	70-72.99
D+	=	67-69.99
D	=	63-69.99
D-	=	60-62.99
F	=	Below 60

Examinations:

All examinations (i.e., quizzes, mid-term examination, final examination) will utilize items with four multiple choice responses. Only one response will be correct.

Examinations include quizzes, a mid-term examination, and a final examination.

Students must bring their MacBooks or iPads to class on each testing date since they will take all course examinations using these devices. Each test will open on the course Blackboard site at the start of the specified testing time in class and end either when all students have completed taking the test or at the end of the allotted time, whichever is sooner. Any student who is late for class may not login to the Blackboard site and begin testing before being physically present in the classroom. Students who attempt to test prior to being present in the classroom will be presumed to have engaged in cheating behaviors and will be penalized in accordance with the “Academic Honesty” policy that is explained in this syllabus.

Mid-Term and Final Examinations:

The mid-term examination will test all course content covered from the beginning of the term, and the final examination will test all course content covered since the mid-term examination. Each of these examinations will include 50 multiple-choice items. All students will be allotted 75 minutes to take these examinations, beginning with the first minute of class. Lateness to class for ANY reason will not merit extra testing time.

Quizzes:

Quizzes will be given at the beginning of class or online, and will include 25 multiple-choice items. All students will be allotted 30 minutes to take the quizzes, beginning with the first minute of class. Lateness to class for ANY reason will not merit extra testing time. A total of five quizzes will be administered, and the student may drop the lowest quiz grade. There will be no quiz makeups. Absence during a quiz for any reason, even verifiable illness or family emergency, will not merit a makeup.

Class Participation:

Each in class session will begin promptly at 5:00 PM and end at 8:00 PM, with time for an interim break period. Online weeks as scheduled.

Course Grades:

Quizzes (highest four of five)	40%
Mid-Term Examination	20%
Final Examination	20%
Case Study Development	15%
Case Study Interaction on Blackboard	5%

COURSE ATTENDANCE POLICY

Students are expected to attend class. Students are expected to read assigned textbook readings prior to class, and review relevant concepts from Anatomy and Physiology prior to class lectures. Students who are experiencing course-related difficulty should consult the course faculty in a timely and constructive manner.

DISABILITY ACCOMODATIONS

Students who wish to request accommodations for a disability must contact the Moravian College Learning Services for Disability Support (ext. 1401), located on the first floor of Monocacy Hall. Accommodations will not be provided until authorization is received from this office. Accommodations for special needs that might include special testing will not be given retroactively (e.g., after a student has already taken a test or completed an assignment without special provisions).

ACADEMIC HONESTY

Academic honesty in all course-related assignments is an expectation of this course faculty. Students who cheat on quizzes or other examinations will receive a zero for that day's activities/assignment. Students may not receive nor send text messages or email messages during class. Likewise, students may not use their cellular phones during class. It will be assumed that students who use this type of technology during class are cheating. Students thus suspected of cheating will receive grades of zero for any participation points and on quizzes or examinations given during that entire class period. In addition, students who cheat will be prosecuted in accordance with policies outlined in the *Moravian College Student*.

This syllabus is subject to change at the discretion of the course professor.

COURSE OUTLINE

All reading assignments should be completed prior to class

<u>Date:</u>	<u>Lecture Content and Student Assignments</u>
January 19 Meet for Class	Overview of Course Introduction of key terms Cellular adaptation & cellular injury Genetics, genomics & disease Oncogenesis & cancer <u>Readings:</u> Porth, Introduction Section (xix-xxiv) & Chapters 2, 5, 6, 7
January 26 ONLINE	Hemostasis & coagulopathies Anemias <u>Readings:</u> Porth, p. 243-248; Chapters 12 & 13 Leukocytic and lymphoid disorders Infection and infectious disease Inflammation & inflammatory responses <u>Readings:</u> Porth, Chapters 3, 11 & 14
February 2	NO CLASS – credit for time to attend Social Feb 4th
February 9 Meet for Class	Quiz #1 (Quiz will be posted online) Immune responses & disorders of immunity <u>Readings:</u> Porth, Chapters 15 & 16

<u>Date:</u>	<u>Lecture Content and Student Assignments</u>
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February 16
Meet for Class

Cardiovascular disorders
Atherosclerosis
Hypertension

Readings:
Porth, Chapters 17, & 18

Coronary artery disease
Heart failure

Readings:
Porth, p. 450-460; 486-499; 508-511

February 23
Meet for Class

Pulmonary disorders
Respiratory failure
Ventilation-perfusion mismatch
Restrictive pulmonary disorders

Readings:
Porth, Chapter 21; p. 545-549; 566-572

Obstructive pulmonary diseases

Readings
Porth, p. 573-583

March 1
ONLINE

Quiz #2 (Quiz will be posted online)
Female reproductive disorders
Male reproductive disorders

Readings:
Porth, Chapters 39 & 40

Renal disorders
Renal failure

Readings:
Porth, Chapters 24, 25, & 26

<u>Date:</u>	<u>Lecture Content and Student Assignments</u>
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March 8	Spring Break – No Class
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March 15 ONLINE	Quiz #3 (Quiz will be posted online) Gastrointestinal disorders Peptic ulcer disease Inflammatory bowel diseases
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Readings:
Porth, Chapters 28 & 29

March 22	Mid-Term Examination (In Class/Online – to be determined)
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March 29 ONLINE	Hepatic disorders Hepatitis & cirrhosis
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Readings:
Porth, Chapter 30

Case Studies Posted to Blackboard

April 5 Meet for Class	Quiz # 4 (Quiz will be posted online) Musculoskeletal disorders Bone fractures
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Readings:
Porth, Chapter 42; 1102-1113

Osteoporosis & Osteoarthritis
Rheumatic disorders

Readings:
Porth, Chapter 44

April 12 ONLINE	Neurological disorders Nociception Disorders of motor function Disorders of brain, including thought and mood
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Readings:
Porth, Chapters 34, 35, 36, 37

April 19
Meet for Class

Quiz 5 (Quiz will be posted online)
Endocrine disorders
Thyroid disorders
Adrenal disorders
Diabetes
Metabolic syndrome

Readings:
Porth, Chapters 31, 32, and 33

April 26

Final Exam (In class/online -to be determined)