

Moravian College
Department of Biological Sciences
Pathophysiology –Biol 205

Fall 2015

Instructor: Professor Marie Kennedy Hosier, M.S.

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Office: Collier Room 321

Office Hours: Tuesday 10 AM-12 PM, Wednesdays 2:30-4:30 PM

Lecture: Monday and Wednesday 1:10-2:20 PM PPHAC 102

Prerequisites: Recommend: BIO 103 and 104

Required Titles:

Porth: *Essentials of Pathophysiology* 4th ed. Wolters Kluwer Health; 2015.

PrepU for *Essentials of Pathophysiology*, 4th Ed.

Recommended Titles:

Pathophysiology Made Incredibly Easy! 5th ed. Lippincott Williams & Wilkins; 2012.

Lazenby RB. *Handbook of Pathophysiology*. 4th ed. Lippincott Williams & Wilkins; 2011.

ACC Atlas of Pathophysiology, 3rd ed. Lippincott Williams & Wilkins; 2010.

Lecture Notes: Supplemental notes and PowerPoint presentations will be posted on Blackboard

Course Description:

Biol 205-Pathophysiology introduces the student to pathophysiology and disruptions in the normal body functioning in individuals across the lifespan. Objective and subjective manifestations of common health problems resulting from the environmental, genetic, and stress-related mal-adaptations are assessed and analyzed. Assessment findings, diagnostic testing, and interventions for specific health problems are discussed. Pharmacologic treatments for specific health problems are explored.

Course Objectives: Upon completion of this course, students will be able to:
Apply principles of normal anatomy and physiology of human body systems to the pathophysiological processes of common health problems.

Identify concepts, principles, and responses related to pathophysiological processes that result in disease.

Discuss clinical manifestations of selected disease processes and health problems.

Identify appropriate pharmacological treatment of specific diseases using the nursing process.

Discuss the nurse's role and responsibility for assessment of individuals experiencing health problems that result in pathophysiological alterations.

Grading: The grading system is as follows: (+/- will be administered as the professor deems appropriate)

A = 90 - 100

B = 80 - 89

C = 70 - 79

D = 60 - 69

Your final grade will be based on the following criteria:

Four lecture exams: 100 points each = 300 points

Final lecture exam: 200 points

Outside Assignments: TBA

** Both lecture material and textbook readings are fair game for lecture exams.

** The final lecture exam will be partially cumulative.

** Please note: It is within the instructor's purview to apply qualitative judgment in determining grades for an assignment or the entire course.

Expectations:

a) Attendance Policy:

Class attendance is optional **HOWEVER**, any missed work is the **responsibility of the student**. All announcements and assignments will be posted online. **Deadlines are set in stone** and **WILL NOT** be adjusted for any reason. Your success in this class will be directly impacted by your attendance.

Exam attendance is NOT negotiable. You must contact me with your very **EXCELLENT** excuse for missing an exam **BEFORE THAT EXAM IS SCHEDULED TO BEGIN** in order for me to give you consideration for a make-up exam. You may contact me VIA email, or by phone (text or voicemail are both acceptable).

b) Cheating: will not be tolerated. Students will be held to the highest standards as specified by the Moravian College Honor Code. Violations of this code will be handled in the most severe manner allowed by college policy.

- c) Reading Assignments: should be completed prior to lecture as well as lab.
- d) Homework: Will include graded assignments associated with PrepU software.
- e) Cell Phones and Pagers: Please turn them off and place them on the desk in front of you for each class. As a courtesy to your professor and the rest of the class, do not type text messages during lecture. If it is urgent, please simply leave the room to do your messaging. Thank you.
- f) Students who wish to request accommodations in this class for a disability should contact Ms. Elaine Mara, Assistant Director of Academic and Disability Support, located on the first floor of Monocacy Hall (EXT. 1410)
Accommodations cannot be provided until authorization is received from the office of Learning Services.
- g) Extra Help: If difficulties interpreting lecture or lab material arise, please contact either me or Learning Services for a tutor ASAP. I will be more than happy to help!!

August 31-Introduction to the course and PrepU
Chapter 2-Cellular Responses to Stress, Injury and Aging

September 2-Chapters Five and Six
Genetic Control of Cell Function and Inheritance
Genetic and Congenital Disorders

September 7-Chapter 7
Neoplasia

September 9-Chapter 12
Alterations in Hemostasis

September 14 -EXAM ONE Chapters 2,5,6,7

September 16- Chapter 13
Disorders of Red Blood Cells

September 21- Chapter 11
Disorders of White Blood Cells and Lymphoid Tissues

September 23-Chapter 14
Mechanisms of Infectious Disease

September 28- Exam TWO Chapters 11, 12, 13, 14

September 30- Chapter 16
Disorders of Immune Response

October 5- Chapter 18
Disorders of Blood Flow and Pressure

October 7- Chapter 19
Disorders of Cardiac Function

Revised Syllabus- October 12, 2015

October 12-Fall Break NO CLASS

October 14- Chap 11
Disorders of White Blood Cells and Lymphoid Tissues

October 19 –Chapters 18 and 19
Cardiac System

October 21- Chapter 22
Respiratory System

October 26- Exam # 2 Chapters 11, 12, 13, 18, 19

October 28- Chapter 25
Disorders of Renal Functions

October 28= Chapter 26
Acute Kidney Injury and Chronic Kidney Disease

November 2- Chapter 29
Disorders of Gastrointestinal Function

November 4- Chapter 30
Disorders of Hepatobiliary and Exocrine, Pancreatic Function

November 9- Chapter 33
Diabetes Mellitus

November 11-Paper # 1 Due
Chapter 36 and 37
Disorders of Neuromuscular Function and Brain Function

November 16- Exam # 3 Chapters 22, 25, 26, 29, 30, 33

November 18- Chapter 14 Mechanisms of Disease

November 23- Chapter 39
Disorders of Male Genitourinary System

November 25-Thanksgiving Break- NO CLASS

November 30- Chapter 40
Disorders of Female Genitourinary System

December 2- Paper # 2 Due
Chapter 43
Disorders Of Skeletal System

December 7- Chapter 46
Disorders of Skin Integrity

December 9- Last Class-Review

December 14- Final Exam 1:30 PM