

**PGY 412**  
**APPLIED PHYSIOLOGY**  
**Fall 2019**  
**Dr. P. Hogan**

*"Pathophysiology deals with the dynamic aspects of disease processes. It is the study of disordered or altered functions--the physiologic mechanisms altered by disease in the living organism. Pathophysiology provides the basic link between clinical practice and the scientific realm of anatomy, physiology, and biochemistry. The study of pathophysiology is essential to understand the rationale for diagnosis and therapeutic intervention in disease conditions."* Preface - Pathophysiology (6th ed.) - Price & Wilson.

Having completed this course, students will have a working knowledge of the dynamic aspects of disease processes. Students will be able to pass, with a C or higher, three written multiple-choice exams on the following disciplines: Endocrine Disorders/Neurological Disorders; Fluid and Electrolyte Disorders/Lung Disease/Heart Disease; Gastrointestinal Disorders/Renal Disorders.

Tuesday and Thursday 8 am – 8:50 am

**DFN 147**

<b>DATE</b>	<b>LECTURE TOPIC</b>	<b>INSTRUCTOR</b>
T 8/27	Introduction	Shubert
T 8/27	Endocrine Disorders: Pituitary	Shubert
TH 8/29	Endocrine Disorders: Thyroid	Shubert
T 9/3	Endocrine Disorders: Adrenal	Shubert
TH 9/5	Endocrine Disorders: Pancreas	Shubert
T 9/10	Neurological Disorders: Children	Baizer
TH 9/12	Neurological Disorders: Adults	Baizer
T 9/17	Neurological Disorders: Older Adults	Baizer
<b>TH 9/19</b>	<b>EXAM 1 (covers 8/27 – 9/17)</b>	<b>Shubert/Baizer</b>
T 9/24	Fluid and Electrolyte Disorders: Water	Alsufayan
TH 9/26	Fluid and Electrolyte Disorders: Sodium & Potassium	Alsufayan

T	10/1	Atherosclerosis, Hypertension	Shubert
TH	10/3	Valvular Heart Disease	Shubert
T	10/8	Ischemic Heart Disease	Shubert
TH	10/10	Congestive Heart Failure	Shubert
T	10/15	Case Studies	Shubert
TH	10/17	Obstructive Lung Disease	Wilson
T	10/22	Restrictive Lung Disease	Wilson
TH	10/24	Pulmonary Vascular Disease	Wilson
<b>T</b>	<b>10/29</b>	<b>EXAM 2 (covers 9/24 –10/24)</b>	<b>Parker/ Wilson / Shubert</b>
TH	10/31	Overview of Gastrointestinal Pathophysiology	Hajduczuk
T	11/5	Pathophysiology of the Stomach	Hajduczuk
TH	11/7	Pathophysiology of the Intestine I	Hajduczuk
T	11/12	Pathophysiology of the Intestine II	Hajduczuk
TH	11/14	Pathophysiology of the Liver, Biliary Tree and Pancreas	Hajduczuk
T	11/19	Disturbances of Acid-Base Balance	Hajduczuk
TH	11/21	Acute and Chronic Renal Failure I	Hajduczuk
T	11/26	Acute and Chronic Renal Failure II	Hajduczuk
<b>11/27-11/30 – FALL RECESS</b>			
T	12/3	Acute and Chronic Renal Failure III	Hajduczuk
TH	12/5	<b>Review</b>	

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**FINAL EXAM: Tuesday Dec. 10, 2019      8:00am – 11:00 am      DFN 147**

**TEXTBOOK: UNDERSTANDING PATHOPHYSIOLOGY-** Huether- McCance (6th edition – previous editions also acceptable), 2012 (ISBN: 978-0323354097)

**COURSE WEB SITE:** <http://UBlearns.buffalo.edu> (*accessible via MyUB*) Check the course web site periodically; it will be the primary communication resource for the course.

**Check UB E-MAIL at your UB email address (\_\_\_\_\_@buffalo.edu) regularly for information about the course.**

**RECOMMENDED REFERENCES:**

(1) medical dictionary (2) human physiology text (3) Merck Manual

*(Note that the Merck Manual is available at <http://www.merck.com/mrkshared/mmanual/home.jsp>)*

<b>EXAMINATIONS:</b>	<b>Date</b>	<b>Material Covered</b>	<b>Points</b>
Exam 1:	Thursday, September 19, 2019	8/27 - 9/17	30
Exam 2:	Tuesday, October 29, 2019	9/24 – 10/24	30
Exam 3 & Final Exam:	Tuesday, December 10, 2019	10/31 - 12/5 8/27 – 12/5	30 30

**There will be no make-up exams!** Students who miss an exam must make an appointment with the Course Coordinator (contact info below) to discuss options.

Students will not be allowed to turn in their exam until 8:20, at which point no students are allowed to begin their exams.

You will be asked to show your UB ID when you hand in your exam. We will not accept Driver's licenses, passports, etc. If you forget your UB ID at the time of the exam, you must email a screenshot of your ID by 5:00 pm the following day to the course coordinator.

**Answer keys** will be posted on UBlearns.

**Exam grades** will be posted on UBlearns. *Note that there will be no retroactive scoring of exams. (Be aware that failure to fill in a "bubble" and filling in a "bubble" other than the intended one result in scores that differ from expected scores.)*

**COURSE GRADES:** Final grades will be assigned as indicated below. Standard deviation is applied to cumulative total of all exam grades, not individual exams. All questions are multiple-choice and are worth one point each.