

**HS 390 Human Pathophysiology
Spring Semester 2018**

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Office hours: Monday 10-11, Wednesday 10-11

Course Meeting Time/Location

This is a hybrid course and will officially meet Wednesdays in SCI D-217 from 11-12:50.

Course Description:

HS 390 Human Pathophysiology (4 cr.)

Examine fundamental concepts of disease such as cellular adaptation and injury, inflammation, immunity, edema, and neoplasia and apply them to common diseases of select organ systems.

Prerequisites:

Biology 285; Biology 387 (or concurrent)

Textbook Rental:

Damjanov, I. (2012). Pathology for the Health Professions (4th ed.). St. Louis: Elsevier.

Recommended:

Any college-level human physiology textbook for reference.

Learning Outcomes:

Following completion of HS 390 Human Pathophysiology, students will:

- 1) understand the mechanisms of common diseases.
- 2) relate the development of disease states to their etiology.
- 3) discuss clinical and laboratory manifestations of disease.
- 4) analyze environmental factors that contribute to the pathogenesis of disease.
- 5) evaluate signs and symptoms of disease in select cases.
- 6) summarize general goals and treatment therapies for select disease processes.

Course Format:

This is a hybrid course that will consist of independent study, lectures (both in-person and recorded on D2L) and class discussion. **Exams will be administered in-person during regular class times on Wednesdays; attendance is mandatory (see missed/late work policy below).** Course-related materials will be posted on D2L. Students are expected to listen to recorded lectures as outlined in the course schedule at the end of this document. **The recorded lectures cover Monday materials. Wednesday classes will meet in person and consist of lecture, case studies and/or small/large group discussions.** In addition, online discussion boards will also be utilized.

To be successful in this course, several strategies are recommended:

1. Listen to recorded lectures and come to class prepared. Attend class meetings! Exams are based on lectures. Active participation will reinforce learning. Material will frequently be related to problems in clinical settings.

2. Take notes in class. Go over those lecture notes as soon as possible following class.
3. Study in short timeframes and frequently (several times each day) to help focus and think about concepts. Discuss content with peers between classes to help with understanding.
4. Use class text for reference. Read the associated Chapters to reinforce class topics.
5. Review related anatomy and physiology concepts concurrently with lecture topics to reinforce understanding of concepts and to promote retention.
6. Address the objectives provided for each content area.
7. Contact instructor if you need concepts clarified further.

Course Grade:

4 Hour exams	40%
Comprehensive Final	20%
Online Discussions	30%
IP Assignments	10%

Grading Scale:

90-100	A
80-89.9	B
70-79.9	C
60-69.9	D
Below 60	F

Grade:

Exams: **Exams will be scheduled during class periods**, and will cover designated units and objectives under study. Questions are generally multiple choice/short answer. Exam dates are provided in the attached timetable. (See below). Attendance at exams is mandatory.

The final exam will be comprehensive and will cover all materials studied in the class. A portion of the final will consist of new material not previously tested and a portion will cover all other materials studied in the course. ***Final exams must be taken during the designated timeslot listed below in the timeline during Finals week. The exam will be in-person. Exams may not be taken early or late.***

Online Discussions:

Online discussions will be utilized to solve case studies and drive rich discussions in online groups as assigned by the instructor. A rubric covering how material will be graded for online discussion is posted to D2L.

Assignments:

Students' may be required to find current literature articles relating the relevant pathology for the week to their chosen future profession. Students will be expected to discuss their articles in small groups and as part of a larger group discussion as time permits.

Depending on the professional make-up of the class, attempts will be made for students to work in interprofessional (IP) teams to solve interprofessional assignments with an emphasis on interprofessional

team-based learning. Interprofessional education requires that students learn with, about and from each other. This learning environment helps to prepare to students to later work in interprofessional clinical teams. Interprofessionalism is a model gaining strength in healthcare aimed at reducing errors, increasing patient safety, and reducing medical costs. As future healthcare professionals you will all one day be working as part of an interprofessional team.

MISSED/LATEWORK POLICY

Any late work (assignments/quizzes/exams, etc.) will result in point deductions. Students will receive up to a maximum of 50% on the first day late. Anything turned in after 1 day of the assignment due date will result in a zero. It is the student's responsibility to complete all work on time. It is also the student's responsibility to turn in any late work within the one-day timeframe to receive up to 50% of the original grade (i.e. the instructor will not contact you for late work to be turned in).

Academic Integrity

The board of regents, administrators, faculty, academic staff and students of the University of Wisconsin system believe that academic honesty and integrity are fundamental to the mission of higher education and of the University of Wisconsin system. The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Students who violate these standards must be confronted and must accept the consequences of their actions. (Excerpt from UWSP 14.01 STATEMENT OF PRINCIPLES – See UWSP Guidebook for more information on consequences of violating academic integrity)

Academic Accommodations

Support services are available for students with disabilities. Any student who has a disability and is in need of classroom and/or exam accommodations, please contact the instructor and the Office of Disability Services as soon as possible.

The instructor reserves the right to make changes to the syllabus and course content. Any in-class announcements (verbal or written) are considered official addendum to this syllabus. It is the student's responsibility to know what changes have been made. It is the student's responsibility to check D2L and emails for course announcements.

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The schedule below lists topics to be covered. Students are expected to listen to recorded lectures found on D2L. Those topics on Mondays are recorded, topics on Wednesdays will be covered in-person during regularly scheduled hours. Students are responsible for all information.

Date	Topics	Activity
WEEK 1: Module 1 Monday	No Official meeting, first in-person class meets Wednesday	D2L Discussion Board Introductions
Wednesday	Class Overview, Syllabus, Schedule, Grading/ Cell Pathology	Read Chapter 1 and 2
WEEK 2: Module 2 Monday	Inflammation (Recorded)	Read Chapter 3 Case Study: Inflammation
Wednesday Module 3	Immunopathology (Antibodies/Innate/Specific Immunity)	Read Chapter 3
WEEK 3: Module 3 Monday	Immunopathology/Hypersensitivities (Recorded).	
Wednesday	Exam 1	Read Chapter 4
WEEK 4: Module 4 Monday	Neoplasia (Recorded)	Read Chapter 5
Wednesday Module 4 cont.	Hemodynamics	Read Chapter 7
WEEK 5: Module 5 Monday	Genetic and Congenital Diseases (Recorded)	Read Chapter 6 Case Study: Unknown Challenge
Wednesday Module 6	Cardiovascular – (Atherosclerosis, HTN, CHF)	
WEEK 6: Module 6 Monday	Cardiovascular Cont. (Whole ppt. recorded)	
Wednesday	Exam 2 (online)	Read Chapter 8
WEEK 7: Module 7 Monday	Respiratory (Recorded)	GI Case Study Read Chapter 10
Wednesday Module 8	Gastrointestinal (Upper GI)	Read Chapter 10
WEEK 8: Module 8 cont.	Gastrointestinal/Lower GI (Recorded)	Read Chapter 11

Monday		
Wednesday Module 9	Liver and Biliary System	Read Chapter 12 Journal article discussion
WEEK 9: Module 9 cont. Monday	Pancreas (Recorded)	
Wednesday	Exam 3	
SPRING BREAK		
WEEK 10: Module 10 Monday	Urinary/Kidneys (Recorded)	Read Chapter 13
Wednesday	Interprofessional Assignment #1	
WEEK 11: Module 11 Monday	Urinary/Bladder/ureters/urethra (Recorded)	Read Chapter 14
Wednesday	Male Repro	
WEEK 12: Module 12 Monday	Female Repro (Recorded)	Read Chapter 16
Wednesday	Interprofessional Assignment #2 Bones/Muscle (Independent groups) (This information not tested until the final exam).	QA Session
WEEK 13: Module 13 Monday	Breast Pathology (Recorded)	
Wednesday	Exam 4	Read Chapter 17 and 18
WEEK 14: Module 14 Monday	Endocrine/Skin (Recorded)	Read Chapter 21

Wednesday Module 14 cont.	Neurodegenerative Diseases	
WEEK 15: Module 15 Monday	Clinicopathologic Correlation (Recorded)	
Wednesday Module 15 cont.	Tumors of the CNS	Q/A
FINAL EXAM PERIOD:	Comprehensive Final	

This schedule is tentative & subject to modifications during the course of the semester.