

PATHOPHYSIOLOGY

HLSC 3410, Fall Semester 2018

Pathophysiology is defined as the physiology of altered health. Pathophysiology deals with the study of structural and functional changes in cells, tissues, and organs of the body that cause or are caused by disease. Pathophysiology also focuses on the mechanisms of the underlying disease process and provides the background for preventative as well as therapeutic health care measures and practices.

Credit: Three (3) Credit Hour Course

Location: Lecture Hall A, 2nd floor SON/AH Building, *no eating or drinking in this room*

Day & Time: Mondays, 9:00 am-12:00 pm, except for 1st three Mondays (see detailed schedule)

Course Director:

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Course Co-Director:

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- The Course Director is directly responsible for the supervision and administration of HLSC3410 Pathophysiology. Any course notifications, policy changes or schedule changes will be formally announced by Dr. Primeaux or Dr. Souza-Smith by email. Please read your emails promptly.

<u>Course Instructors</u>	<u>Office</u>	<u>Email address</u>
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- Email is the most reliable way to contact one of the Course Directors and/or Instructors. Please include **HLSC3410 TRAD** in the subject heading, so that we can respond quickly.
- Tutoring will be available by Mr. Zach Stielper (zstiel@lsuhsc.edu), a graduate student in the Department of Physiology.
- Office hours for Dr. Primeaux will be **Mondays 1:00-3:00pm or by appointment**. Office hours for Dr. Souza-Smith and for the Course Instructors will be **by appointment only**. Please email to arrange an appointment.

The 4 C's of Pathophysiology:

- **C**linical manifestations/symptoms
- **C**auses - Genetic/Metabolic/Infectious, etc.
- **C**onsequences - Cellular/Organ/System, etc.
- **C**ollateral - Effects on other Organs/Systems

Textbook:

- Mandatory: Essentials of Pathophysiology, 4e, by C.M. Porth (ISBN 978- 1-4511-9080-9)
- Optional: Study guide for Porth's Essentials of Pathophysiology, 4th edition – ISBN: 978-1-4511-9293-3
- The textbook is well-written and contains numerous figures and tables. Lectures will supplement and extend the textbook readings.

Lectures:

- You will be provided with lecture handouts via Moodle prior to the lecture.
- The lectures will be recorded (voice) and made available for review via Moodle.
- It is assumed that you have comprehensive knowledge of normal physiology. Basic physiology will not be specifically covered in lectures, however, you may be tested on basic physiology concepts, as they relate to pathophysiology.

Computers:

- Use of computers to take notes and to follow the lecture handouts is allowed during lectures.
- Surfing the internet, chatting via social media, sending/answering emails is **not allowed** during class and can be distracting to other students. Please wait until breaks or after class.

Cell Phones:

- Please do not use your cell phone during class. Please silence your cell phone during class. If you receive an emergency call, please step outside of the classroom to answer the phone. It is distracting to other students.

Attendance:

- The School of Nursing states that attendance is mandatory. Therefore, you are expected to attend each lecture.
- Unavoidable absences require documentation for that absence. For example, physician's excuse, court documentation.

Academic Honesty:

- Students must demonstrate the highest standards of character and integrity, which warrant public confidence and trust bestowed on them as health professionals.
- Each student must exhibit professional courtesy towards faculty, supporting staff and fellow students.
- You may be asked to sign and comply with an honor code for each exam.
- The LSU Health Sciences Center policy on cheating and plagiarism, as stated in the catalogue, will be strictly enforced.
- Students found cheating in any form, will receive an automatic failing grade for the course and their names will be sent to the Dean of the Nursing school for further disciplinary action.

Students with Disabilities:

- Students with disabilities must inform the School of Nursing Administrative Assistant Dean of their authenticated disability. The Assistant Dean's office will inform the Course Directors that the student will require additional time or accommodations.
- It is the student's responsibility to contact the Course Director no later than 24 hours prior to each examination to receive details of the arrangements.

Examination Policies:

- Three (3) sectional exams and one (1) comprehensive final exam are scheduled.
- Exam questions will be multiple choice and will be from the lecture material and the textbook. Questions will ask you to apply principles learned in the lecture to clinical situations.
- We will NOT review exams or individual exam questions during class. If you would like to discuss your exam, please make an appointment with the Course Director.
- You may be asked to sign and return an honor code, and comply with it. This is in accordance with The School of Nursing Compliance Regulations.
- Exams will be taken in the Lecture Room A, SON, on your personal laptop. You must have the Respondus lockdown feature installed prior to the exam.
- You may bring a pen/pencil with you to the exam. Everything else must be left at the front of the classroom. **NO CELL PHONES ALLOWED.** If you expect an emergency call during the exam, silence your cell phone & leave it with the proctors so we can notify you should you receive a call.
- Caps and other headgear MAY NOT be worn during the exam, apart from those related to religious doctrines.
- On Exam day, do not enter the classroom until notified by the exam proctor. The exam will begin after instructions are given. The Proctor will hand out scrap paper, which will need to be handed back to the proctor after the exam.
- Exams start and end at the time specified on the syllabus. **If you arrive late for the exam, your exam will end at the same time that it ends for the other students.**

Missing an Examination:

- Students must have a legitimate excuse for missing an exam. Please inform the Course Director BEFORE the exam, if possible. If a student misses an examination, has a valid excuse, and informs the coordinator no later than 24 hours after the exam has been given, then the student will be offered a make-up exam. Excused absences will include but not be limited to death of a family member or significant other, illness of student or dependent, accidents, and authorized attendance at university activities.
- A make-up exam must be scheduled **within one week** of returning to school. It is the student's responsibility to schedule the make-up exam with the Course Director. Failure to do so will result in a grade of "0" for any exam missed.

Quizzes:

- There may or may not be brief quizzes (on paper) administered during individual class meetings. These will not occur daily. They will be random and intermittent. If you are present, you will have the opportunity to earn extra points (1 grade point per quiz; see below) toward your final grade by answering the quiz question(s) correctly. If you are absent, there will be no make-up opportunity for these quiz points.

Grading:

- Exam scores will NOT be “curved”.

The following is a breakdown of lectures hours per exam, questions per exam and points per exam:

Exam #	# of Lectures	# of Questions	Max Points
Exam 1	9	45	45 points
Exam 2	12	60	60 points
Exam 3	12	60	60 points
Final Exam	33	99 + 1	100 points
Total			265 (+1 point per correct quiz)

Final Grades:

Final grades are based on 90% (A), 80% (B), 70% (C), 60% (D) and <60% (F)

Final Score	Letter Grade
238-265	A
212-237	B
185-211	C
159-184	D
≤158	F

Grades will not be rounded up. For example, if you receive 211 points, you will receive a C.

Grades are considered final once submitted to the registrar.

Lecture Schedule

NO.	#L	Day/Date	Time	Topic	Instructor
01	L1	M Aug 20	8:30	Course Intro/Normal Cell Structure & Function (Ch 1)	Dr. Primeaux
02	L2		9:30	Cell Adaptation (Ch 2, 4)	Dr. Primeaux
03	L3		10:30	Genetic Disorders (Ch 5, 6)	Dr. Primeaux
04	L4	M Aug 27	8:30	Inflammation (Ch 3)	Dr. Yue
05	L5		9:30	Infection & Immunity (Ch 14-16)	Dr. Yue
06	L6		10:30	Neoplasia/Cancer (Ch 7)	Dr. Siggins
		M Sept 3		LABOR DAY—No class	
07	L7	M Sept 10	8:30	Hematopoietic Function I (Ch 11-13)	Dr. Siggins
08	L8		9:30	Hematopoietic Function II (Ch 11-13)	Dr. Siggins
09	L9		10:30	Peripheral Vascular Disorders (Ch 18)	Dr. Yue
10		M Sept 17	9:00	EXAM 1 Lectures 1-9	
11			10:00		
12			11:00		
13	L10	M Sept 24	9:00	Disorders of Cardiovascular Function (Ch 19)	Dr. Primeaux
14	L11		10:00	Coronary Artery Disease & Heart Failure (Ch 20)	Dr. Primeaux
15	L12		11:00	Arrhythmias and ECG (Ch 17)	Ms. Ninh
16	L13	M Oct 1	9:00	Disorders of Respiratory System (Ch 21, 22)	Dr. Yue
17	L14		10:00	Asthma, COPD & Emphysema (Ch 23)	Dr. Yue
18	L15		11:00	Blood Gases (Ch 23, Ch 8 pp 191-202)	Dr. Yue
19	L16	M Oct 8	9:00	Fluid & Electrolyte Imbalances (Ch 8 pp159-181)	Dr. Harrison-Bernard
20	L17		10:00	Disorders of Renal Function (Ch 24-26)	Dr. Harrison-Bernard
21	L18		11:00	Shock (Ch 20 pp 500-510)	Dr. Souza-Smith
22	L19	M Oct 15	9:00	Gastrointestinal Disorders I (Ch 28-29)	Dr. Souza-Smith
23	L20		10:00	GI Disorders II & Gut microbiome	Dr. Souza-Smith
24	L21		11:00	Pancreatic & Liver Disorders (Ch 30)	Dr. Souza-Smith
25		M Oct 22	9:00	EXAM 2 Lectures 10-21	
26			10:00		
27			11:00		
28	L22	M Oct 29	9:00	Disorders of Skeletal System (Ch 42-43)	Dr. Levitt
29	L23		10:00	Metabolic & Rheumatic Disorders (Ch 44)	Dr. Levitt
30	L24		11:00	Disorders of the Skin (Ch 45-46)	Dr. Primeaux
31	L25	M Nov 5	9:00	Nutritional Disorders (Ch 10)	Dr. Byerley

32	L26		10:00	Diabetes, Obesity & Metabolic Syndrome (Ch 33)	Dr. Primeaux
33	L27		11:00	Reproductive Disorders (Ch 39-40)	Dr. Basha
34	L28	M Nov 12	9:00	Endocrine Disorders (Ch 31-32)	Dr. Edwards
35	L29		10:00	Stress (Ch 9)	Dr. Fucich
36	L30		11:00	Pain (Ch 35)	Ms. McGinn
37	L31	M Nov 19	9:00	Disorders of Brain Function I (Ch 36-37)	Dr. Fucich
38	L32		10:00	Disorders of Brain Function II (Ch 36-37)	Dr. Fucich
39	L33		11:00	Integrated Pathophysiology/Lifespan	Dr. Rivera
40		M Nov 26	9:00	EXAM 3 Lectures 22-33	
41		10:00			
42		11:00			
		M Dec 3	8:00	Comprehensive FINAL EXAM	