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Nursing Syllabi Spring 2018

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2018

### 364-04 Pathophysiology

Cheryl Leksan  
leksanc1@xavier.edu

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Xavier University  
College of Professional Services  
School of Nursing  
Spring 2018

COURSE NUMBER: 364-04  
 TITLE: Pathophysiology  
 CREDIT HOURS: 3 credits  
 THEORY HOURS: 45 Hours  
 PRE-REQUISITES: BIOL 140/141, BIOL 142/143, and CHEM 150/151  
 CO-REQUISITES: None

FACULTY: Cheryl Leksan, MSN, MEd, RN, CCRN  
 OFFICE: Cohen Room 132B  
 Phone: 513-745-1916  
 E-MAIL: [leksancl@xavier.edu](mailto:leksancl@xavier.edu) (preferred method)  
 Office hours: TR 9:30am -11:00am and by appointment

COURSE TIMES: NURS 364-04 TR 11:00am-12:15pm  
 LOCATION: Cohen 194

**COURSE DESCRIPTION:**

The relationship of normal body functioning to physiological changes associated with dysfunction of an organ or organ system is discussed. General concepts of disease processes are addressed in order to provide rationale for diagnosis and health-illness transitions.

**COURSE OBJECTIVES:**

Course Objectives	Essentials
1. Discuss the interrelationships of normal body systems and the maintenance of homeostasis	I: Liberal education for baccalaureate generalist nursing practice
2. Explain the impact of lifestyle, environment, culture, ethnicity and genetic makeup of individuals experiencing health-illness transitions.	VII: clinical prevention and population health
3. Describe the basic concepts of pathophysiology at the cellular level related to injury, self-defense mechanisms, mutation, and cellular proliferation	I: Liberal education for baccalaureate generalist nursing practice
4. Analyze the effects of disease states and abnormal functions upon the organ(s) associated with disease processes of targeted body systems.	I: Liberal education for baccalaureate generalist nursing practice
5. Explain the manifestations of organ and systems failure related to various disease states.	IX: Baccalaureate generalist nursing practice
6. Identify pertinent biomarkers of individuals experiencing health-illness transitions.	IX: Baccalaureate generalist nursing practice
7. Recognize various signs and symptoms related to decompensation and complications of various disease states.	IX: Baccalaureate generalist nursing practice

#### REQUIRED TEXT:

Capriotti, T. & Frizzell, J. P. (2016). *Pathophysiology: Introductory concepts and clinical perspectives*. Philadelphia, PA: F.A. Davis Company.

#### TEACHING/LEARNING STRATEGIES:

This course will be taught with the expectation that all students have prepared for class. **The students should be prepared for class by reading the assigned text materials for that class, viewing videos, and looking over the PowerPoint if available.** Teaching/learning strategies will include: lecture, activities, discussion, exams, quizzes, videos, self-study packet.

#### ATTENDANCE POLICY:

All students have something of value to contribute to the class as well as to the education of others. It is our professional responsibility to share the benefit of our knowledge with our colleagues. Thus, **attendance and active participation in the class is expected.** Should it be necessary to be absent from class, it is the student's responsibility to inform the course faculty member of needed absences **prior** to the class meeting.

#### EXAM TAKING AND REVIEW:

Your attendance at the regularly scheduled exam time is expected. Any exception to this must be authorized by the faculty member **prior** to the time of the exam. Failure to do this may result in being prohibited from taking the test and/or reduction in grade. Students who miss an exam due to excused absence are expected to make up the exam within seven calendar days of their return to class, unless there are extenuating circumstances. The exam may be given in an alternative format such as essay or short answer.

There will be minimal to no exam review in the classroom. Those wishing to review their exam must make an appointment and review the exam within two weeks of taking the test. There will be no review of the final exam.

#### ASSIGNMENTS/QUIZZES:

Assignments and quizzes must be submitted by the date and time indicated on the syllabus and/or calendar. No late assignments/quizzes will be accepted unless there are extenuating circumstances. The student must contact the faculty member prior to the date the assignment is due, in order to be granted an exception for extenuating circumstances.

#### METHODS OF EVALUATION:

Exam 1	15%
Exam 2	15%
Exam 3	15%
Exam 4	15%
Quizzes (10)	10%
Final Exam (Comprehensive)	25%
Self-Study Packet	<u>5%</u>
	100%

#### Exams

There will be four section exams covering the material up to that point per the course calendar. The material on these exams will include content covered in class, the textbook, and supplemental readings/resources.

#### Final Exam

There is one comprehensive final exam scheduled during exam week over all content covered this semester.

#### Quizzes

There are ten online quizzes addressing covered up to point as indicated on the course calendar. You may use your notes and textbook for these quizzes.

## Self-Study Packet

There is one independent self-study packet that you will complete and submit via canvas on the date indicated on the course calendar.

### GRADING SCALE:

A	94-100	C-	70-74
A-	90-93	D+	67-69
B+	87-89	D	60-66
B	84-86	F	<60
B-	80-83		
C+	77-79		
C	75-76		

\* **Grades will be rounded to the nearest whole number. You must earn a minimum of 75% to pass this course.**

### ASSISTANCE:

If you are in need of assistance or additional support with the course material, I am available during office hours, email, or by appointment. Do not wait until the last minute if you are experiencing difficulty with course material.

### CANVAS:

Class syllabus, calendar, and PowerPoints will be posted on Canvas. There will also be additional materials, such as web sites and journal articles; these are supplemental materials to help you understand the material. You should check Canvas regularly.

### PROFESSIONALISM:

Class members are expected to participate in an atmosphere of respectful collegiality in the class setting. Individual discussions should be handled outside of class time. **Cell phones and computers are to be turned off and put away during class.** Other potential distracters, such as sidebar conversations, should be avoided to ensure that the learning environment is optimal for all students and faculty.

### XU ACADEMIC HONESTY POLICY:

Refer to the Xavier University Catalogue (p. 54) and the School of Nursing Undergraduate Student Handbook.

The pursuit of truth demands high standards of personal honesty. Academic and professional life requires a trust based upon integrity of the written and spoken word. Accordingly, violations of certain standards of ethical behaviour will not be tolerated at Xavier University. These include theft, cheating, plagiarism, unauthorized assistance in assignments and tests, unauthorized copying of computer software, the falsification of results and material submitted in reports or admission and registration documents, and the falsification of any academic record including letters of recommendation. **All work submitted for academic evaluation must be the student's own.** Certainly, the activities of other scholars will influence all students. However, the direct and unattributed use of another's efforts is prohibited, as is the use of any work untruthfully submitted as one's own. Penalties for violations of this policy may include one or more of the following: a zero for that assignment or test, an "F" in the course, and expulsion from the University. The dean of the college in which the student is enrolled is to be informed in writing of all such incidents, though the teacher has full authority to assign the grade for the assignment, test, or course. If disputes of interpretation arise, the student, faculty member, and chair should attempt to resolve the difficulty. If this is unsatisfactory, the dean will rule in the matter. As a final appeal, the academic vice president will call a committee of tenured faculty for the purpose of making a final determination.

In addition to The Academic Honesty Policy of Xavier University, the American Nurses' Association's Code of Ethics includes provisions which hold nurses accountable for demonstrating integrity, knowledge development and competency to promote personal and professional growth. Students are expected to work toward meeting these standards throughout their coursework.

If you have any question as to whether or not you are appropriately citing a reference or are unclear as to what plagiarism encompasses, please meet and discuss with your faculty member.

#### OUT OF CLASSROOM ASSISTANCE:

##### **Office of Academic Support:**

The Office of Academic Support (OAS) offers tutoring, Supplemental Instruction (SI), and study groups. For information about these services, contact Stephanie Daniels at 745-3214 or [danielss3@xavier.edu](mailto:danielss3@xavier.edu). The OAS is located on the fifth floor of the Conaton Learning Commons, Suite 514.

##### **Students with Disabilities:**

Any student who feels he/she may need an accommodation based on the impact of a documented disability should notify the course instructor and contact Cassandra Jones in the Office of Disability Services at 745-3280 or e-mail [jonesc20@xavier.edu](mailto:jonesc20@xavier.edu) to coordinate reasonable accommodations.

#### SOCIAL MEDIA:

Social media and the internet provide an important medium for sharing information and offers easily accessible methods for mass communication. Nursing students must be aware of the risks and consequences associated with social networking. On-line social networking (e.g., Facebook, Twitter, blogs, etc.) are open, publicly accessible sites. Unprofessional or unbecoming online behavior undermines not only the nursing student's reputation, but may also have negative implications for Xavier University, and the profession of nursing. Certain violations in the use of social media may expose the offender to criminal and civil liability. Refer to the student handbook or the handbook policy addendum for more information and to view the Social Media Policy <http://www.xavier.edu/nursing/current-students.cfm>

#### FACULTY:

Cheryl Leksan been an RN for nearly 31 years, having earned a BSN from the University of Toledo, an MSN (Masters of Science in Nursing) from Xavier University, an MEd (Masters in Education), and she completed 3 years of doctoral studies at the University of Cincinnati (she does not have a PhD). She has taught for 13 years at Xavier and has been the lead faculty for a variety of courses, from freshman to graduate, in the School of Nursing. Her areas of expertise are pathophysiology, pharmacology, critical care, and stress-related illnesses, but has taught most of the undergraduate courses. She also was an Associate Director in the School of Nursing where she developed and implemented the ABSN (Accelerated BSN) program from 2016-2017. Prior to teaching at Xavier she has worked as a charge nurse/staff nurse in cardiac and surgical telemetry/stepdown units, medical and cardiac intensive care units, emergency department and in a hospital-based corporate education department as a staff educator.

She currently has two dogs, one of whom is a therapy dog. They visit a local addiction treatment and mental health center weekly and looks forward to visiting more facilities.

#### CAVEAT:

The schedule and procedures in this course are subject to change at the discretion of the instructor in the event of extenuating circumstances as well as class learning needs.

Xavier University  
 College of Professional Sciences  
 School of Nursing  
 NURS 364 Pathophysiology Section 04 (Leksan)  
 Spring 2018 Topical Calendar\* Version 1

Date	Topic	Readings/Assignments NOTE: For all readings please skip “Treatment” sections
Jan 9		
Jan 11	Cell and Tissue Biology Cell Injury, Adaptation, and Disease	Ch. 1 pp. 3-9 Ch. 2 pp. 11-23 Additional readings/resources on canvas
Jan 16	Genes and Genetic Basis of Disease	Ch. 3 pp. 27-50 Additional readings/resources on canvas  <b>Quiz 1 Due by 1/20/18 at 11:59pm</b>
Jan 18	Mechanisms of Self Defense and Inflammation	Ch. 9 pp. 157-168 Ch. 11 pp. 201-206  <b>Quiz 2 Due by 1/22/18 at 11:59pm</b>
Jan 23	Disorders of the Immune System Stress Obesity	Ch. 11 pp. 206-225 Ch. 4 pp. 55-60 Ch. 5 pp. 77-81
Jan 25	Cell Proliferation and Cancer	Ch. 40 pp. 949-977  <b>Quiz 3 Due by 1/29/18 at 11:59pm</b>
Jan 30	Hematologic Disorders—WBC disorders RBC Disorders	Ch. 12 pp. 231-250 Ch. 13 pp. 253-261
Feb 2	RBC disorders (continued) Platelet/Coagulation disorders	Ch. 13 pp. 261-283 Ch. 14 pp. 285-303, Ch. 47 1124-1125
Feb 6	<b>EXAM 1</b>	
Feb 8	Fluid and Electrolyte Imbalances	Ch. 7 pp. 117-138  <b>Quiz 4 Due by 2/12/18 at 11:59pm</b>
Feb 13	Acid-Base Imbalances	Ch. 8 pp. 141-153
Feb 15	Hormone Regulation-Endocrine Disorders	Ch. 24 pp. 529-552  <b>Quiz 5 Due by 2/19/18 at 11:59pm</b>
Feb 20	Hormone Regulation-Diabetes Mellitus	Ch. 25 pp. 553-576
Feb 22	Renal Disorders	Ch. 22 pp. 487-508  <b>Quiz 6 Due by 2/26/18 at 11:59pm</b>
Feb 27	Renal Disorders—Urinary	Ch. 23 pp. 511-524
March 1	<b>EXAM 2</b>	
March 5-9	<b>Spring Break</b>	
March 13	Cardiovascular Disorders—Arterial disorders Venous Disorders	Ch. 15 pp. 307-340 Ch. 19 pp. 425-433

March 15	Cardiovascular Disorders—Heart Disease Heart Failure	Ch. 16 pp. 343-367 Ch. 17 pp. 371-393  <b>Quiz 7 Due by 3/19/18 at 11:59pm</b>
March 20	Valvular Disease  Multisystem Disorders: Shock/SIRS/Sepsis/MODS	Ch. 18 pp. 403-421  Ch. 47 pp. 1107-1117
March 22	Pulmonary	Ch. 20 pp. 437-457  <b>Quiz 8 due by 3/26/18 at 11:59pm</b>
March 27	Pulmonary	Ch. 21 pp. 459-482; Ch. 47 pp. 1119-1121
<i>March 29</i>	<b>EXAM 3</b>	
<b>April 2</b>	<b>Easter Break</b>	<b>Reproductive Disorders/Skin Disorders Self-Study Packet Due April 4</b>
April 3	Musculoskeletal Disorders	Ch. 37 pp. 863-900  <b>Quiz 9 Due by 4/7/18 at 11:59pm</b>
April 5	Musculoskeletal Disorders	Ch. 38 pp. 903-920; Ch. 11 pp. 212-215 Ch. 39 pp. 923-944
April 10	Gastrointestinal Disorders	Ch. 29 pp. 647-674 Ch. 30 pp. 677-696  <b>Quiz 10 Due by 4/14/18 at 11:59pm</b>
April 12	Gastrointestinal Disorders	Ch. 31 pp. 699-724 Ch. 32 pp. 727-741
<b>April 17</b>	<b>EXAM 4</b>	
April 19	Neurological Disorders	Ch. 33 pp. 745-758 Ch. 34 pp. 765-792
April 24	Neurological Disorders Behavioral Disorders	Ch. 35 pp. 795-815 Ch. 36 pp. 833-854
April 26	<b>Review for Final Exam</b>	
April 30- May 4 Final Exam	<b>FINAL EXAM</b>	

\*Note: Per Syllabus Caveat, the dates of topics, readings, exams, quizzes, and assignment are subject to change per class needs and extenuating circumstances