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Nursing Syllabi Spring 2018

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2018

### 364-01 Pathophysiology

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Xavier University  
College of Professional Services  
School of Nursing  
Spring 2018

COURSE NUMBER: 364-01  
 TITLE: Pathophysiology  
 CREDIT HOURS: 3 credits  
 THEORY HOURS: 45 Hours  
 PRE-REQUISITES: BIOL 140/141, BIOL 142/143, and CHEM 150/151  
 CO-REQUISITES: NURS 230 & 231

FACULTY: Amy McQuattie, BA, MSN, RN  
 OFFICE: Cohen Room 188D  
 Phone: 745-3859  
 E-MAIL: [mcquattiea@xavier.edu](mailto:mcquattiea@xavier.edu) (Preferred)  
 Office hours: By appointment

COURSE TIMES: NURS 364-01 WF 3:00-4:15  
 LOCATION: Cohen 143

**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.

Many additional resources are available on Canvas and through the website for this textbook. I encourage you to take advantage of those resources.

**METHODS OF INSTRUCTION:**

This course will be taught with the expectation that all students have prepared for class. **The students should be prepared for class by reviewing the text materials for that class, viewing videos, and looking over the powerpoint.** Class time will be spent exploring the understanding of the materials.

Lecture, activities, discussion, exams, quizzes, and videos; student must access Canvas.

**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.

**METHODS OF EVALUATION:**

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

**Final Exam**

The final exam for this course is scheduled for the following times:

NURS 364-01: Wednesday, May 2nd, 2018 2:00-3:50pm

**GRADING SCALE:**

<b>A</b>	<b>94-100</b>	<b>C-</b>	<b>70-74</b>
<b>A-</b>	<b>90-93</b>	<b>D+</b>	<b>67-69</b>
<b>B+</b>	<b>87-89</b>	<b>D</b>	<b>64-66</b>
<b>B</b>	<b>84-86</b>	<b>D-</b>	<b>60-63</b>
<b>B-</b>	<b>80-83</b>	<b>F</b>	<b>&lt;60</b>
<b>C+</b>	<b>77-79</b>		
<b>C</b>	<b>75-76</b>		

\* **Passing grades will be rounded to the nearest whole number. Grades lower than a 75.00% will not be rounded and will be considered non-passing for progressing in the Nursing program.**

## EXAMS:

There will be four regular exams, one final exam. Exam questions may be in the form of multiple choice, multiple answer, ordering, short answer, matching, or brief essays. Regular exams will be cumulative with 90% questions covering new material, and 10% questions from previous material. The final exam will be comprehensive with 40% new material and 60% from materials included on exams 1- 4.

Your attendance at the scheduled time for all exams is expected. Any exception 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. Make up exams must be completed within one week. Late exams will be at the discretion of the faculty member and will differ in structure from the exam given at the scheduled time.

## ASSISTANCE:

Assistance is available after class, by email, or by appointment. **Do not wait until the last minute if you are experiencing difficulty.** It is VERY difficult to “catch up” once you are behind. Please contact the instructor for advice regarding additional resources or special assistance. The learning assistance center is also a resource for you with study groups and possible tutors, take advantage of those resources early. All students are expected to visit with the course faculty member or schedule an appointment with questions or concerns.

## 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.

## 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 behavior 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.

#### STUDENTS WITH DISABILITIES:

Qualified students with disabilities who will require disability accommodations in this class are encouraged to make their requests to me by sharing their Accommodation Letters with me at the beginning of the semester either during office hours or by appointment. Disability related information is confidential. 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.

The Office of Academic Support 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.

#### OFFICE OF STUDENT SUCCESS:

The Staff in the Office of Student Success is available to assist students to make the most of their Xavier experience. Personal staff consultations, success coaching, referrals to on-campus Solution Centers, and guiding students to effectively navigate their college experience are central to our work. Please visit [www.xavier.edu/student-success](http://www.xavier.edu/student-success) to learn more or visit us in the Conaton Learning Commons.

Location: 514 Conaton Learning Commons

Phone: 513-745-3036

Email: [studentretention@xavier.edu](mailto:studentretention@xavier.edu)

#### 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., Face book, MySpace, 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:

Amy McQuattie has been a registered nurse for 12 years with working experience in renal transplant, hemodialysis, and endoscopy. She has her diploma from The Christ Hospital School of Nursing, her Bachelor's from Bowling Green State University, and her Master's of Nursing from Xavier University. In addition to teaching undergraduate pathophysiology, she currently works as the coordinator of the online graduate nursing programs. She is also the secretary of the Sigma Theta Tau Nursing Honors Society and a member of the Transcultural Nursing Society. She is currently working towards her PhD in Public Health/Epidemiology.

#### 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.

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Date	Topic	Readings/Assignments
Jan 10	Cell and Tissue Biology	Ch.1 pp.3-9 Ch. 2 pp. 11-23 Additional resources on Canvas
Jan 12	Genes and Genetic Basis of Disease	Ch. 3 pp. 27-50
Jan 15	<b>NO CLASS MLK DAY</b>	
Jan 17	Mechanisms of Self Defense and Inflammation	Ch. 9 pp. 157-168 Ch. 11 pp. 201-206 Quiz 1 Due by 1/21/18 at 11:59pm
Jan 19	Mechanisms of Self Defense and Inflammation Stress Obesity	Ch. 11 pp. 206-225  Ch. 4 pp. 55-60 Ch. 5 pp. 77-81
Jan 24	Cell Proliferation and Cancer	Ch. 40 pp. 949-977 Quiz 2 Due by 1/28/18 at 11:59pm
Jan 26	Hematologic Disorders	Ch. 12 pp. 231-250 Ch. 13 pp. 253-261
Feb 2	Hematologic Disorders	Ch. 13 pp. 261-283 Ch. 14 pp. 285-303, Ch. 47 1124-1125
Feb 7	<b>EXAM 1</b>	
Feb 9	Fluid and Electrolyte Imbalances	CH. 7 pp. 117-138 Quiz 3 Due by 2/11/18 at 11:59pm
Feb 14	Acid-Base Imbalances	Ch. 8 pp.141-153
Feb 16	Hormone Regulation-Endocrine Disorders	Ch. 24 pp. 529-552 Quiz 4 Due by 2/18/18 at 11:59pm
Feb 21	Hormone Regulation-Diabetes Mellitus	Ch. 25 pp. 553-576
Feb 23	Renal Disorders	Ch. 22 pp. 487-508 Quiz 5 Due by 2/25/18 at 11:59pm
Feb 28	Renal Disorders	Ch. 23 pp. 511-524
March 2	<b>EXAM 2</b>	
March 5-9	<b>Spring Break</b>	
March 14	Cardiovascular Disorders	Ch. 15 pp. 307-340 Ch. 19 pp. 425-433 Ch. 16 pp. 343-376
March 16	Cardiovascular Disorders (Continued)	Ch. 17 pp. 371-393 Ch. 18 pp. 403-421 Quiz 6 Due by 3/18/18 at 11:59pm
March 21	Multisystem Disorders: Shock/SIRS/Sepsis/MODS	Ch. 47 pp. 1107-1117
March 23	<b>Pulmonary</b>	Ch.20 pp. 437-457 Ch. 21 pp. 459-482 Ch. 47 pp. 1119-1121 Quiz 7 Due by 3/25/18 at 11:59pm
March 28	<b>EXAM 3:</b>	
March 29- April 2	<b>Easter Break</b>	Reproductive Disorders/Skin Disorders Self-Study Packet Due April 4
April 4	Finish Pulmonary, Musculoskeletal Disorders	Ch. 37 pp. 863-900 Ch. 38 pp. 903-920; Ch. 11 pp. 212-215
April 6	Musculoskeletal Disorders	Ch. 39 pp. 923-944 Quiz 8 Due by 4/8/18 at 11:59pm
April 11	Gastrointestinal Disorders	Ch. 29 pp. 647-674 Ch. 30 pp. 677-696
April 13	Gastrointestinal Disorders	Ch. 31 pp. 699-724 Ch. 32 pp. 727-741 Quiz 9 Due by 4/15/18 at 11:59pm

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<b>April 18</b>	<b>EXAM 4</b>	
April 20	Neurological Disorders	Ch. 33 pp. 745-758 Ch. 34 pp. 765-792 Quiz 10 due by 5/22/18 at 11:59pm
April 25	Neurological Disorders including behavioral health	Ch. 35 pp. 795-815 Ch. 36 pp. 833-854
April 27	Neurologic Disorders/Review	
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