UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SUMMER 2018

COURSE NUMBER NUR 3129

COURSE TITLE Pathophysiology and Psychopathology

CREDITS 4

PLACEMENT BSN Program: 1st Semester Upper Division

PREREQUISITES Admission to Upper Division BSN Program

COREQUISITES None

# FACULTY OFFICE PHONE OFFICE HOURS

Tina M. D’Alessandro, PhD, ARNP UF CON, Jax (c) 904-417-3773 By Appointment

Email: dalessa@ufl.edu

COURSE DESCRIPTION

The purpose of this course is to examine pathophysiology and psychopathology related to human illness within a systems framework. Emphasis is on understanding pathophysiology and psychopathology as alterations in normal functioning of individual client subsystems. Focus is on presentation of selected pathophysiology and psychopathology and subsequent symptomatology in diverse clients across the lifespan.

COURSE OBJECTIVES Upon completion of this course, the student will be able to:

1. Utilize principles from the biological and behavioral sciences to understand pathophysiological and psychopathological processes across the lifespan.
2. Explain relationships among pathophysiological processes, laboratory and diagnostic tests, and clinical manifestations of selected illnesses.
3. Identify genetic factors that influence pathophysiological and psychopathological processes in diverse clients.
4. Distinguish differences between developmental physiological alterations and pathophysiological processes.
5. Explain psychological processes associated with functional alterations in client’s behavior.
6. Differentiate between developmental and behavioral alterations in clients across the life span.

COURSE SCHEDULE

Wednesdays 7:30 a.m. -11:50 a.m. Room POB 3083

E-Learning in Canvas is the course management system that you will use for this course. E-Learning in Canvas is accessed by using your Gatorlink account name and password at <http://elearning.ufl.edu/>. There are several tutorials and student help links on the E-Learning login site. If you have technical questions call the UF Computer Help Desk at 352-392-HELP or send email to [helpdesk@ufl.edu](mailto:helpdesk@ufl.edu).

It is important that you regularly check your Gatorlink account email for College and University wide information and the course E-Learning site for announcements and notifications.

Course websites are generally made available on the Friday before the first day of classes.

TOPICAL OUTLINE

1. Cellular metabolism and genetic basis of health

2. Fluid and electrolytes

3. Acid/base balance

4. Alterations in physiological systems

a. Hematopoietic system

b. Immune system

c. Cellular proliferation

d. Circulatory system

e. Pulmonary system

f. Digestive system

g. Endocrine system

h. Renal system

i. Reproductive systems including Physiology of Pregnancy

j. Neurological system

k. Musculoskeletal system

l. Integumentary system

5. Alterations in cognition, perception and affect

TEACHING METHODS

Lecture, audiovisual materials including TOPHAT, written materials, group activities, discussion

LEARNING ACTIVITIES

Worksheets and homework, selected readings and electronic sources, participation in discussions, group case study analysis, and study questions.

EVALUATION METHODS/COURSE GRADE CALCULATION

2 Unit exams 30%

Final exam 30%

Group Case studies 13%

Participation (includes homework and discussion board posts) 10%

Attendance 2%

Quizzes 15%

Total 100%

Evaluation will be based on three objective tests each worth 100 points, group case studies worth 10 points each, completed homework assignments and discussion board posts worth 5 points each, class attendance (2% of grade) and quizzes worth 10 points each. Each exam is comprehensive and will include content previously tested in this course. Homework will be reviewed in class but must be submitted online in Canvas for credit.

MAKE UP POLICY

There will be no make-up work in this class. If you do not attend class and a quiz is given that day, there will not be an opportunity to make up the quiz. Group case studies will not be made up by students missing class unless circumstances are preapproved by the professor. Students will receive a zero for any missed quizzes or missed in-class work, including group discussion board posts. For any homework assignment turned in late, 30% will be deducted for each day that it is late:

Day 1 -30%

Day 2 -60%

Day 3 -90%

>Day 4 = 0%

Testing will be done at the time indicated on the course syllabus. Early testing is not an option and late testing will be given only in exceptional situations. Students must obtain approval of absence from Tina D’Alessandro, PhD, ARNP (904-417-3773) **prior** to the scheduled exam. Late testing will be completed within one week of the scheduled exam. AN UNEXCUSED absence on test day will result in a zero on that test. Students must use privacy screens when taking their exams. Any student without a privacy screen will not be allowed to complete their exam and will receive a zero for the exam.

GRADING SCALE/QUALITY POINTS

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| Letter Grade | Points | Quality Points |
| A | 95 – 100 | 4.0 |
| A- | 93 – 94 | 3.67 |
| B+ | 91 – 92 | 3.33 |
| B | 84 – 90 | 3.0 |
| B- | 82 – 83 | 2.67 |
| C+ | 80 – 81 | 2.33 |
| C | 74\* - 79 | 2.0 |
|  | \*74% is the minimum | passing grade |
| C- | 72 – 73 | 1.67 |
| D+ | 70 – 71 | 1.33 |
| D | 64 – 69 | 1.0 |
| D- | 62 – 63 | .67 |
| E | 61 or below | 0.0 |

For more information on grades and grading policies, please refer to University’s grading

policies: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

PROFESSIONAL BEHAVIOR

The College of Nursing expects all Nursing students to be professional in their interactions with patients, colleagues, faculty, and staff and to exhibit caring and compassionate attitudes. These and other qualities will be evaluated during patient contacts and in other relevant settings by both faculty and peers. Behavior of a Nursing student reflects on the student's individual’s ability to become a competent professional Nurse. Attitudes or behaviors inconsistent with compassionate care; refusal by, or inability of, the student to participate constructively in learning or patient care; derogatory attitudes or inappropriate behaviors directed at patients, peers, faculty or staff; misuse of written or electronic patient records (e.g., accession of patient information without valid reason); substance abuse; failure to disclose pertinent information on a criminal background check; or other unprofessional conduct can be grounds for disciplinary measures including dismissal.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>. Students are required to provide their own privacy screen for all examination’s administered to student laptops. No wireless keyboards or wireless mouse/tracking device will be permitted during examinations.

REQUIRED RESOURCES

Exams will be completed in Canvas for this course.

\* *You are responsible for having the following supplies for this course: At least, either laptop with a privacy screen or a phone (either smart phone or flip phone) is required to participate in the classroom activities throughout the semester*. *Please plan accordingly.* **Top Hat subscription**- https://tophat.com/ (You will need to enter user code sent by Top Hat which can be found in Canvas under the Professor’s Welcome). You may have other courses using Top Hat: There is a $24.00 fee per semester NOT per class to purchase

University and College of Nursing Policies:

Please see the College of Nursing website for a full explanation of each of the following policies - <http://nursing.ufl.edu/students/student-policies-and-handbooks/course-policies/>.

Attendance

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media

REQUIRED TEXT

McCance, K.L., & Huether, S. E. (2014). *Pathophysiology*: *The biologic basis for disease in*

*adults and children* (7th ed.). St. Louis: Mosby/Elsevier.

RECOMMENDED TEXT

Lippincott (2013). *Pathophysiology Made Incredibly Easy.* China: L. Lippincott Williams & Williams. ISBN-13: 978-1451146233

COURSE SCHEDULE

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| Week # | Date | Topics, Readings & Assignments | Instructor |
| 1 | Wednesday, May 16th  Weekly assignments | Intro., Cellular Metabolism, ANS, Stress & Disease  Regulation, Metabolism, Oxygenation, Perfusion, & Stress, Immunity, Comfort & Sleep  Cellular Injury & Inflammation, Physiology of Pain, Sleep, Temperature Regulation & Vital Signs    McCance: Chapters 1-3, 7, 11, 16, & pp. 1668-1679.  Aging & Free Radicals Narrated Lecture  **Homework**: VITAL SIGNS EXERCISE, WORKSHEET #1 ELECTROLYTES  Psychopathology (please see Psychopathology module regarding directions for how to access all required videos):   1. *Introduction to mental disorders*   *VIDEO 4:56 minutes*   1. *Categories of mental disorders*   *VIDEO 16:19 minutes* | Dr. D’Alessandro |
| 2 | Wednesday, May 23rdWeekly assignments | Hematologic Disease  Oxygenation & Immunity  McCance: Chapters 27 - 30  Polycythemia, Sickle Cell Disease, Hemophilia & DIC    WORKSHEETS: #3: CBC & #4: Coagulation  Neurotransmitters – see CANVAS Psychopathology   1. *Schizophrenia*   *VIDEO 6:08 minutes*   1. *Biological basis of schizophrenia*   *VIDEO 13:38 minutes* | Dr. D’Alessandro |
| 3 | Wednesday, May 30thWeekly assignments | Immunity, Alterations in Immunity, & Infection; Cancer: Mutations & Metastasis; Leukemia, Lymphoma, & Multiple Myeloma  Metabolism, Regulation, & Immunity    McCance: Chapters 8 -10, 12 - 14  Infection, Leukopenia, & AIDS  WORKSHEETS: Culture & Sensitivity; Disorders of the Breast   1. *Biological basis of depression*   *VIDEO 9:02 minutes* | Dr. D’Alessandro |
| 4 | Wednesday, June 6thWeekly assignments | Urinary Tract Disorders & Renal Disease  Regulation & Elimination  McCance: Chapters 37, & 38: pp. 734-752. & 850-871, U/A worksheet   1. *Depression and bipolar disorder*   *VIDEO 4:34 minutes*   1. *Depression and major depressive disorder*   *VIDEO 11:19 minutes* | Dr. D’Alessandro |
| 5 | Wednesday, June 13thWeekly assignments | Pulmonary Disease  Oxygenation  McCance: Chapters 34 - 36  Cystic Fibrosis & Lung Cancer    WORKSHEETS: Complete ABG worksheet | Dr. D’Alessandro |
| EXAM 1 | Friday June 15th in the Jax CON classroom  1400-1600 (2 – 4 p.m.) | Exam 1 covers material in weeks 1-4. Please arrive early to assure that your computer is working properly. Students without a privacy screen will not be allowed to take their exam. | Ms. Davis and IT,  Proctors |
| 6 | Wednesday June 20th  Weekly assignments | Cardiovascular Disease  Oxygenation & Perfusion  McCance: Chapters 31 - 33. | Professor Aull |
|  | Summer Break | June 24-30th |  |
| 7 | Wednesday, July 4th  Weekly assignments | Happy 4th of July! No class today. This week’s assignments will be available on line with recorded lectures (see below)  Liver and Pancreatic Disease  Nutrition & Elimination    McCance: Chapters 40 – 41  WORKSHEET #7: LFTS & PANC.FUNCTION   1. *Anxiety disorders and obsessive compulsive disorder*   *VIDEO 11:24 minute*   1. *What is Obsessive Compulsive Disorder? (Article)* 2. *What is post traumatic stress disorder? (Article)* | Dr. D’Alessandro |
| 8 | Wednesday, July 11th  Weekly assignments | Liver and Pancreatic Disease cont. Alteration in Digestive Function in Children  Nutrition & Elimination  McCance: Chapter 42   1. *Dissociative identity disorder*   *VIDEO 4:30 minutes*   1. *Somatic symptom disorder and other disorders (Video 5:54 minutes)* | Professor Huffman |
| 9 | Wednesday, July 18th Weekly assignments | Endocrine Disease Part 1 and Part 2  Regulation & Metabolism    McCance: Chapters 21 & 22. (skip pp. 734-752) | Dr. D’Alessandro  and Guest  Speaker (?) |
| EXAM 2 | Friday, July 20th in the CON classroom  1400-1600 (2-4 p.m.) | Exam 2 will cover weeks 5-8. Please arrive early to assure that your computer is working properly. Students without a privacy screen will not be allowed to take their exam. | Ms. Davis & IT,  Proctors |
| 10 | Wednesday, July 25thWeekly assignments | Reproductive Systems  Regulation & Metabolism    McCance: Chapters 23 – 25   1. *Personality disorders*   *VIDEO 8:21 minutes* | Dr. Gannon |
| 11 | Wednesday, August 1st  Weekly assignments | Neurologic Disease Part 1  Increase ICP, Stroke, Brain Injury  Cognition, Mobility, & Perception  McCance: Chapter 17  Homework: WORKSHEET #8: CSF   1. *Biological basis of Parkinson's disease*   *VIDEO 7:46 minutes* | Professor Noble |
| 12 | Wednesday, August 8th  Weekly assignments | Neurologic Disease Part 2  Degenerative Disorders  Cognition, Mobility, & Perception  Musculoskeletal Disease  Mobility  McCance: Chapter 18, 43 | Dr. D’Alessandro |
| FINAL EXAM | **Thursday, August 10th (CON classroom)**  **1400-1600**  **(2 p.m. – 4 p.m.)** | **CUMULATIVE FINAL EXAM** Please arrive early to assure that your computer is working properly. Students without a privacy screen will not be allowed to take their exam. | Ms Davis & IT,  Proctors |

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| Approved: | Academic Affairs Committee:  General Faculty:  UF Curriculum Committee: | 06/00; 02/03; 09/09; 02/12  03/96; 03/03; 09/09; 03/12  04/96; 05/03; 10/09; 04/12 | 04/07 |