UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SUMMER 2017

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

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 8:00 a.m. -12:00 noon Room POB 3083

Thursdays 8:00 a.m. -9:00 a.m. Room POB 3083 (Thursday class will be face-to-face for certain weeks and self study for some weeks (including watching educational videos regarding psychopathology)

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, written materials, group activities and 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

3 Unit examinations 60%

Final exam 20%

Case studies and homework 15%

Quizzes 5%

Total 100%

Evaluation will be based on four objective tests each worth 100 points and a case study analysis assignment worth 100 points. Each exam is comprehensive and will include content previously tested in this course. Feedback on Assignments will be within one week.

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 that are done in class and completed will not be made up by students missing class. Students will receive a zero for any missed quizzes or missed in class case studies or assignments. 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.

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>. Studentsare 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.

COURSE SCHEDULE

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| Week # | Date | Topics, Readings & Assignments |
| 1 | Wednesday, May 10th  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: pp. 25-28, Chapters 2, 3, 7, 11, 16, & pp. 1668-1679.  Aging & Free Radicals Narrated Lecture  **Homework**: VITAL SIGNS EXERCISE, WORKSHEET #1 ELECTROLYTES & #2 ABG |
| 2 | Wednesday, May 17thWeekly assignments | Hematologic Disease  Oxygenation & Immunity  McCance: Chapters 27, 28, & 29, pp. 1063-1068.  Polycythemia, Sickle Cell Disease, Hemophilia & DIC  **Homework**:WORKSHEETS #3: CBC & #4: Coagulation  Neurotransmitters – see CANVAS Psychopathology |
| 3 | Wednesday, May 24thWeekly assignments | Immunity, Alterations in Immunity, & Infection; Cancer: Mutations & Metastasis; Leukemia, Lymphoma, & Multiple Myeloma  Metabolism, Regulation, & Immunity    McCance: Chapters 7, 8, 9, & 10, 12, & 13, pp. 1013-1035  Infection, Leukopenia, & AIDS  Homework: WORKSHEETS: Culture & Sensitivity; Disorders of the Breast |
| 3 | Thursday, May 25th | 8-9 a.m. EXAM #1 (covers weeks 1,2) |
| 4 | Wednesday, May 31stWeekly assignments | Pulmonary Disease  Oxygenation  McCance: Chapters 34, 35, & pp. 1310-1312  Cystic Fibrosis & Lung Cancer |
| 5 | Wednesday, June 7thWeekly assignments | Cardiovascular Disease  Oxygenation & Perfusion  McCance: Chapters 31, 32 and 33.  Substance Abuse Pathology – see CANVAS Psychopathology |
| 6 | Wednesday June 14th Weekly assignments | Urinary Tract Disorders & Renal Disease  Regulation & Elimination  McCance: Chapters 37, & 38: pp. 734-752. & 850-871.  Homework: WORKSHEET #6: UA  See Canvas for psychopathology |
| 6 | **Thursday, June 15th** | 8-9 a.m. EXAM #2 (covers weeks 3,4,5) |
|  | Summer Break | June 19-23rd |
| 7 | Wednesday, June 28th  Weekly assignments | Gastrointestinal Disorders  Liver and Pancreatic Disease  Nutrition & Elimination    McCance: Chapters 40, 41. See Canvas for psychopathology  Colon Cancer |
| 8 | Wednesday, July 5th  Weekly assignments | Liver and Pancreatic Disease cont. Alteration in Digestive Function in Children  Nutrition & Elimination  McCance: Chapters 41, 42  Homework: WORKSHEET #7: LFTS & PANC.FUNCTION  see CANVAS for Psychopathology |
| 9 | Wednesday, July 12th Weekly assignments | Neurologic Disease Part 1  Increase ICP, Stroke, Brain Injury  Cognition, Mobility, & Perception  McCance: Chapter 17  Homework: WORKSHEET #8: CSF |
| 9 | **Thursday, July 13th** | 8 – 9 a.m. EXAM #3 (covers weeks 6,7,8 INCLUDING PSYCHOPATHOLOGY) |
| 10 | Wednesday, July 19thWeekly assignments | Neurologic Disease Part 2  Degenerative Disorders  Cognition, Mobility, & Perception  Musculoskeletal Disease  Mobility  McCance: Chapter 18, 43  Begin working on your case study |
| 11 | Wednesday, July 26th  Weekly assignments | Endocrine Disease Part 1 and Part 2  Regulation & Metabolism    McCance: Chapters 21 & 22. (skip pp. 734-752) |
| 12 | Wednesday, August 2nd  Weekly assignments | Reproductive Systems  Regulation & Metabolism    McCance: Chapters 23, 24, 25 |
| FINAL EXAM | **Thursday, August 3rd** | **0725-0930 CUMULATIVE FINAL EXAM** |

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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 |