UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

FALL 2016

COURSE NUMBER NUR 3129 – Section 11HD

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

# David J Derrico RN, MSN HPNP 3202 352-273-6341 Tuesday 0800-1000

Assistant Clinical Professor (cell) 352-562-6305

[derridj@ufl.edu](mailto:derridj@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

Section Day Time Room

11HD Wednesday 0830-1235 G101

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, and presentation of case studies.

LEARNING ACTIVITIES

Worksheets, readings, participation in discussion, case study analysis, and study questions.

EVALUATION METHODS/COURSE GRADE CALCULATION

3 Unit examinations 60%

Final exam 20%

Case study analysis 20%

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. The test scores will be averaged with the case study analysis and rounded to the nearest whole number to determine final course grade. Feedback on Assignments will be within one week.

MAKE UP POLICY

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 David Derrico (273-6341) **prior** to the scheduled exam. Late testing will be completed within one week of the scheduled exam. TEN PERCENTAGE POINTS will be deducted from the exam score for UNEXCUSED absences.

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 RESOURCE

Exam soft will be utilized in this course for the administration of examinations. Students will be instructed by faculty on how to access and pay for this required resource.

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 August 24  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, 7, 11, 16, & pp. 1668-1679.  Aging & Free Radicals Narrated Lecture  Homework: VITAL SIGNS EXERCISE |
| 2 | Wednesday August 31  Weekly assignments | **0830 Examsoft orientation**  Fluids and Electrolyte Disorders:  Regulation  Acid/Base Disorders  Regulation/  McCance: Chapter 3  Homework: WORKSHEET #1 ELECTROLYTES & #2 ABG |
| 3 | Wednesday Sept. 7Weekly assignments | **0830 Practice test using examsoft**  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 |
| 4 | Wednesday Sept. 14Weekly assignments | **0830 EXAM 1 G101**  Immunity, Alterations in Immunity, & Infection  Immunity    McCance: Chapters 7, 8, 9, & 10  Infection, Leukopenia, & AIDS  Homework: WORKSHEET #5: Culture & Sensitivity |
| 5 | Wednesday Sept. 21 Weekly assignments | Cancer: Mutations & Metastasis,  Metabolism, Regulation, & Immunity Leukemia, Lymphoma, & Multiple Myeloma G103  Metabolism, Regulation, & Immunity  McCance: Chapters 12, 13, & pp. 1013-1035  Disorders of the Breast |
| 6 | Wednesday Sept. 28Weekly assignments | Pulmonary Disease  Oxygenation  McCance: Chapters 34, 35, & pp. 1310-1312  Cystic Fibrosis & Lung Cancer |
| 7 | Wednesday October 5Weekly assignments | Cardiovascular Disease Part 1  Oxygenation & Perfusion  Peripheral Vascular Disease & Pulmonary Embolism  Substance Abuse Pathology – see CANVAS Psychopathology |
| 8 | **Wednesday Oct. 12** Weekly assignments | **0830 EXAM 2 G101**  Cardiovascular Disease Part 2  Oxygenation & Perfusion  McCance: Chapters 31, 32 |
| 9 | Wednesday Oct. 19 Weekly assignments | Diabetes  Urinary Tract Disorders & Renal Disease  Regulation & Elimination    McCance: Chapters 22, 37, & 38: pp. 734-752. & 850-871.  Homework: WORKSHEET #6: UA |
| 10 | Wednesday Oct. 26  Weekly assignments | Gastrointestinal Disorders  Liver and Pancreatic Disease  Nutrition & Elimination    McCance: Chapters 40, 41.  Colon Cancer  A&P of Pregnancy |
| 11 | Wednesday Nov. 2  Weekly assignments | Liver and Pancreatic Disease cont.  Nutrition & Elimination  Musculoskeletal Disease  Mobility  McCance: Chapters 43 & 44  Homework: WORKSHEET #7: LFTS & PANC.FUNCTION  see CANVAS for Psychopathology |
| 12 | **Wednesday Nov. 9** Weekly assignments | **0830 EXAM 3 G101**  Neurologic Disease Part 1  Increase ICP, Stroke, Brain Injury  Cognition, Mobility, & Perception  McCance: Chapter 17  Brain Tumors  Homework: WORKSHEET #8: CSF |
| 13 | Wednesday Nov. 16Weekly assignments | Neurologic Disease Part 2  Degenerative Disorders  Cognition, Mobility, & Perception  McCance: Chapter 18 |
| 14 | **No Classes** | **THANKSGIVING HOLIDAY** |
| 15 | Wednesday Nov. 30  Weekly assignments | Endocrine Disease Part 1  Regulation & Metabolism    McCance: Chapters 21 & 22. (skip pp. 734-752) |
| 16 | Wednesday Dec. 7  Weekly assignments  **Wednesday Dec 7** | Endocrine Disease Part 2  Regulation & Metabolism    McCance: Chapters 21 & 22. (skip pp. 734-752)  see CANVAS for Psychopathology  **CASE STUDY DUE**  **Students in the last adult health clinical (11/21/16 -12/6/16) due date is Monday 12/12/16 by noon in my office** |
| FINALS WEEK | **Wednesday Dec 14** | **0725-0930 CUMULATIVE FINAL EXAM G101** |

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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 |