UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SUMMER 2016

COURSE NUMBER NUR 3129 – Section 7B54

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 352-273-6341 Friday 0800-1000

Assistant Clinical Professor 3202 (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 clients behavior.
6. Differentiate between developmental and behavioral alterations in clients across the life span.

COURSE SCHEDULE

Wednesday 0800-1215 Room: 1404

Thursday 0800-0915 Room: 1404

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 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.

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>

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.

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.

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.

COURSE SCHEDULE

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| Week # | Date | Topics Readings & Assignments |
| 1 | Wednesday May 11  Thursday May 12  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 May 18  Thursday May 19  Weekly assignments | Fluids and Electrolyte Disorders:  Regulation  Acid/Base Disorders  Regulation/  McCance: Chapter 3  Homework: WORKSHEET #1 ELECTROLYTES & #2 ABG |
| 3 | Wednesday May 25Weekly assignmentsThursday May 26 | Hematologic Disease  Oxygenation & Immunity    McCance: Chapters 27, 28, & 29, pp. 1063-1068.  Polycythemia, Sickle Cell Disease, Hemophilia & DIC  Homework: WORKSHEETS #3: CBC & #4: Coagulation  **0700-0915 EXAM 1 1404** |
| 4 | Wednesday June 1  Thursday June 2 Weekly assignments | Immunity, Alterations in Immunity, & Infection  Immunity  Web Lectures: Neurotransmitters & Substance Abuse  McCance: Chapters 7, 8, 9, & 10  Infection, Leukopenia, & AIDS  Homework: WORKSHEET #5: Culture & Sensitivity |
| 5 | Wednesday June 8  Thursday June 9  Weekly assignments | Cancer: Mutations & Metastasis,  Metabolism, Regulation, & Immunity Leukemia, Lymphoma, & Multiple Myeloma  Metabolism, Regulation, & Immunity  McCance: Chapters 12, 13, & pp. 1013-1035  Disorders of the Breast |
| 6 | Wednesday June 15 Weekly assignmentsThursday June 16 | Pulmonary Disease  Oxygenation  McCance: Chapters 34, 35, & pp. 1310-1312  Cystic Fibrosis & Lung Cancer  **0700-0915 EXAM 2 1404** |
|  |  | SUMMER BREAK |
| 7 | Wednesday June 29  Thursday June 30 Weekly assignments | Cardiovascular Disease and Diabetes  Oxygenation & Perfusion  McCance: Chapters 31, 32, & pp. 734-752  Peripheral Vascular Disease & Pulmonary Embolism |
| 8 | Wednesday July 6  Thursday July 7 Weekly assignments | Urinary Tract & Renal Disease  Perfusion  McCance: Chapters 35, 36  Homework: Worksheet #6: Urinalysis |
| 9 | Wednesday July 13  Weekly assignments  **Thursday July 14** | Gastrointestinal Disorders  Nutrition & Elimination  Musculoskeletal Disease  Mobility  McCance: Chapters 40, 41, 43 & 44  Colon Cancer  Homework: WORKSHEET #7: LFTS & PANC.FUNCTION  **0700-0915 EXAM 3 1404** |
| 10 | Wednesday July 20  Thursday July 21 Weekly assignments | Neurologic Disease , increased ICP  Cognition, Mobility, & Perception  McCance: Chapter 11, 15, 17, & 18  Brain Tumors & Muscular Dystrophy  Homework: WORKSHEET #8: CSF |
| 11 | Wednesday July 27  Thursday July 28  Weekly assignments | Endocrine Disease  Regulation & Metabolism    McCance: Chapters 21 & 22. (skip pp. 734-752)  **CASE STUDY DUE in class Thursday July 28, 2016** |
| 12 | **Wednesday August 3** | **0800-1015 FINAL EXAM 1404** |

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

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