UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SUMMER 2014

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 Monday 1000-1200

Assistant Clinical Professor 3202 (cell) 352-562-6305

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

Anna Hall Kelley, MSN, ARNP HPNP 352-273-6422 Monday 1000-1200

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ARNP, PMHNP-BC 4219

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DEPARTMENT CHAIR

Joyce Stechmiller, PhD,ACNP-BC FAAN

Associate Professor HPNP

Adult and Elderly Nursing 3230 352 273-6394 By Appointment

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

1. Explain relationships among pathophysiological processes, laboratory and diagnostic

tests, and clinical manifestations of selected illnesses.

1. Identify genetic factors that influence pathophysiological and psychopathological

processes in diverse clients.

1. Distinguish differences between developmental physiological alterations and

pathophysiological processes.

1. Explain psychological processes associated with functional alterations in clients

behavior.

1. Differentiate between developmental and behavioral alterations in clients across the life

span.

COURSE SCHEDULE

Wednesday 0800-1215 HPNP: G103

Thursday 1400-1515 HPNP: G103

E-Learning in Sakai is the course management system that you will use for this course. ELearning in Sakai is accessed by using your Gatorlink account name and password at

<http://lss.at.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.

ATTENDANCE

Students are expected to be present for all scheduled classes, other learning experiences, and examinations. Students who have extraordinary circumstances preventing attendance should explain these circumstances to the course instructor **prior** to the scheduled class or as soon as possible thereafter. Instructors will then make an effort to accommodate **reasonable** requests. A grade penalty may be assigned for late assignments, including tests.

ACCOMMODATIONS DUE TO DISABILITY

Each semester, students are responsible for requesting a memorandum from the Disability Resource Center (<http://www.dso.ufl.edu/index.php/drc/>) to notify faculty of their requested individual accommodations. This should be done at the start of the semester.

UNIVERSTY COUNSELING AND MENTAL HEALTH SERVICES

Students may occasionally have personal issues that arise on the course of pursuing higher education or that may interfere with their academic performance. If you find yourself facing problems affecting your coursework, you are encouraged to talk with an instructor and to seek confidential assistance at the University of Florida Counseling Center, 352-392-1575, visit their web site for more information: <http://www.counseling.ufl.edu/cwc/>.

STUDENT HANDBOOK

Students are to refer to the College of Nursing Student Handbook for information about College of Nursing policies, honor code, class demeanor and professional behavior. <http://nursing.ufl.edu/students/student-policies-and-handbooks/>.

ACADEMIC HONESTY

The University of Florida Student Conduct and Honor Code may be found at http://www.dso.ufl.edu/index.php/sccr/process/student-conduct-honor-code/

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>

FACULTY EVALUATIONS

Students are expected to provide feedback on the quality of instruction in this course based on ten criteria. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu>.

This course will provide class time for students to complete the evaluation using laptops, smart phones, or other electronic devices.  The evaluation will be administered on July 30, 2014.  The instructors will not be present while the evaluation is being completed.

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.

Townsend, M.C. (2014). *Essentials of psychiatric mental health nursing*: *Concepts of care in*

*evidenced-based practice* (6th ed.) Philadelphia: F.A. Davis.

RECOMMENDED TEXT

Van Leeuwen, A.M. & Poelhuis-Leth, D.J. (2013). *Davis’s comprehensive handbook of*

*laboratory and diagnostic tests with nursing implications* (5th ed.). Philadelphia:F.A. Davis

COURSE SCHEDULE

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| Week # | Date | Topics Readings & Assignments |
| 1 | Wednesday, May 14  Thursday May 15  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    Psychopathology Lecture #1: Introduction to Psychopathology; Definitions & Theoretical Models    McCance: pp. 25-28, Chapters 2, 7, 11, 16, & pp. 1668-1679.  Townsend: Chapters 1 & 2  Aging & Free Radicals Narrated Lecture  Homework: VITAL SIGNS EXERCISE |
| 2 | Wednesday, May 21  Thursday May 22  Weekly assignments | Fluids and Electrolyte Disorders:  Regulation  Acid/Base Disorders  Regulation/  McCance: Chapters 3  Homework: WORKSHEET #1 ELECTROLYTES & #2 ABG |
| 3 | Wednesday, May 28 Thursday, May 29 Weekly assignments | **0800-0915 EXAM 1 COMPUTER TESTING CENTER**  0930-1215 Hematologic Disease  Oxygenation & Immunity    Psychopathology Lecture #2: Concepts in Mood: Depression  McCance: Chapters 19, 27, 28, 29, pp. 1063-1068. (skip 1013-1035)  Townsend: Chapter 16  Polycythemia, Sickle Cell Disease, Hemophilia & DIC  Homework: WORKSHEETS #3: CBC & #4: Coagulation |
| 4 | Wednesday, June 4  Thursday, June 5 Weekly assignments | Immunity, Infection, Alterations in Immunity  Immunity  Immunodeficiency  McCance: Chapter 7, 8, 9, & 10  Infection, Leukopenia, & AIDS  Homework: WORKSHEET #5: Culture & Sensitivity |
| 5 | Wednesday, June 11  Thursday, June 12 Weekly assignments | Cancer: Mutations & Metastasis,  Metabolism, Regulation, & Immunity  Physiology of Pregnancy  Sexuality  Psychopathology Lecture #3: Concepts in Mood: Bipolar Disorder  McCance: Chapter 12, 13, & 17  Townsend: Chapter 19 |
| 6 | Wednesday, June 18  Thursday, June 19 Weekly assignments | **0800-0915 EXAM 2 COMPUTER TESTING CENTER**  0930-1215 Leukemia, Lymphoma, & Multiple Myeloma G103  Metabolism, Regulation, & Immunity  Psychopathology Lecture #4: Concepts in Anxiety  McCance: pp. 1013-1035  Townsend: Chapter 18  Disorders of the Breast & Disorders of the Integument |
|  |  | SUMMER BREAK |
| 7 | Wednesday , July 2 Thursday, July 3Weekly assignments | Pulmonary Disease  Oxygenation  Cardiovascular Disease Part 1  Oxygenation & Perfusion  Physiology of Pregnancy  Psychopathology Lecture #5: Concepts in Anxiety: Eating Disorders  McCance: Chapter 31, 32, 34, 35, & pp. 1310-1312 & 1450  Townsend: Chapter 22  Cystic Fibrosis & Lung Cancer |
| 8 | Wednesday, July 9  Thursday, July 10 Weekly assignments | Cardiovascular Disease Part 2  Oxygenation & Perfusion  Endocrine Disorders: Diabetes  Regulation & Metabolism  McCance: Chapters 32 & pp. 734-752.  Peripheral Vascular Disease & Pulmonary Embolism |
| 9 | Wednesday, July 16  Thursday, July 17 Weekly assignments | **0800-0915 EXAM 3 COMPUTER TESTING CENTER**  1030-1215 Urinary Tract Disorders & Renal Disease G103  Regulation & Elimination  Psychopathology Lecture #6: Concepts in Psychotic Disorders:  Schizophrenia  McCance: Chapters 19, 37, 38, & pp. 850-871.  Townsend: Chapter 15  Male Reproductive disorders  Homework: WORKSHEET #6: UA |
| 10 | Wednesday, July 23  `Thursday, July 24 Weekly assignments | Gastrointestinal Disorders  Nutrition & Elimination  Musculoskeletal Disease  Mobility  Psychopathology Lecture #7: Concepts in Neurocognition: Dementia  McCance: Chapter 17, 40, 41, 43, & 44.  Townsend: Chapter 13  Colon Cancer  Homework: WORKSHEET #7: LFTS & PANC.FUNCTION |
| 11 | Wednesday, July 30  Thursday, July 31 Friday, August 1Weekly assignments | Endocrine Disease  Regulation & Metabolism  Neurologic Disease , increased ICP  Cognition, Mobility, & Perception  Faculty Evaluations  Psychopathology Lecture #8: Concepts in Stress: PTSD  **Case Study Analysis Due at noon – my office HPNP 3202**    McCance: Chapter 11, 15, 17, 18, 21, & 22. (skip pp. 734-752)  Townsend: Chapter 19  Brain Tumors & Muscular Dystrophy  Homework: WORKSHEET #8: CSF |
| 12  **FINAL EXAM** | **Wednesday, August 6** | **0800-1000 CUMULATIVE FINAL EXAM**  **COMPUTER TESTING CENTER** |

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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 |