UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SUMMER 2015

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

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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 HPNP: G103

Thursday 0800-0915 HPNP: G103

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://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.

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.

COURSE SCHEDULE

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| Week # | Date | Topics Readings & Assignments |
| 1 | Wednesday, May 13  Thursday May 14  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 20  Thursday May 21  Weekly assignments | Fluids and Electrolyte Disorders:  Regulation  Acid/Base Disorders  Regulation/  McCance: Chapter 3  Homework: WORKSHEET #1 ELECTROLYTES & #2 ABG |
| 3 | Wednesday, May 27 Thursday, May 28 Weekly assignments | 0930-1215 Hematologic Disease  Oxygenation & Immunity    **0745-0915 EXAM 1 COMPUTER TESTING CENTER**  McCance: Chapters 27, 28, & 29, pp. 1063-1068.  Polycythemia, Sickle Cell Disease, Hemophilia & DIC  Homework: WORKSHEETS #3: CBC & #4: Coagulation |
| 4 | Wednesday, June 3  Thursday, June 4 Weekly assignments | Immunity, Alterations in Immunity, & Infection  Immunity    McCance: Chapters 7, 8, 9, & 10  Infection, Leukopenia, & AIDS  Homework: WORKSHEET #5: Culture & Sensitivity |
| 5 | Wednesday, June 10  Thursday, June 11 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 & Disorders of the Integument |
| 6 | Wednesday, June 17  Thursday, June 18 Weekly assignments | Pulmonary Disease  Oxygenation  **0730-0900 EXAM 2 COMPUTER TESTING CENTER**  McCance: Chapters 34, 35, & pp. 1310-1312  Cystic Fibrosis & Lung Cancer |
|  |  | SUMMER BREAK |
| 7 | Wednesday , July 1 Thursday, July 2Weekly assignments | Cardiovascular Disease  Oxygenation & Perfusion  Diabetes  McCance: Chapters 31, 32 & pp. 734-752.  Peripheral Vascular Disease & Pulmonary Embolism |
| 8 | Wednesday, July 8  Thursday, July 9 Weekly assignments | Urinary Tract Disorders & Renal Disease  Regulation & Elimination    McCance: Chapters 37, 38, & pp. 850-871.  Male Reproductive disorders  Homework: WORKSHEET #6: UA |
| 9 | Wednesday, July 15  Thursday, July 16 Weekly assignments | Gastrointestinal Disorders  Nutrition & Elimination  Musculoskeletal Disease  Mobility  **0730-0900 EXAM 3 COMPUTER TESTING CENTER**    McCance: Chapters 40, 41, 43, & 44.  Colon Cancer  Homework: WORKSHEET #7: LFTS & PANC.FUNCTION |
| 10 | Wednesday, July 22  `Thursday, July 23 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 29  Thursday, July 30 Weekly assignments | Endocrine Disease  Regulation & Metabolism  **Case Study Analysis Due in Class**    McCance: Chapters 21 & 22. (skip pp. 734-752) |
| 12  **FINAL EXAM** | Wednesday August 5  **Thursday, August 6**  Weekly assignments | Alterations in cognition, perception and affect  **0730-0930 CUMULATIVE FINAL EXAM**  **COMPUTER TESTING CENTER**  McCance: Chapter 18 |

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

Academic Honesty

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 |