UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

FALL 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

Sandra Wolfe Citty, PhD, ARNP-BC, CNE HPNP 3216 352-356-1581 Friday 1000-1200

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 11HD Wednesdays 8:30 a.m. -12:20pm Room G101

Section 256E Thursdays 8:30 a.m. -12:20pm Room C1-3

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 and homework, selected readings and electronic sources, participation in discussion, case study analysis, and study questions.

EVALUATION METHODS/COURSE GRADE CALCULATION

3 Unit examinations 60%

Final exam 20%

Case study analyses 10%

Worksheets 5%

Quizzes 5%

Total 100%

**Worksheets:**

* Vital signs: 9/6
* Electrolytes: 9/13
* CBC: 9/20
* Coagulation: 9/20
* ABG: 9/27
* Culture and sensitivity: 10/4
* UA: 10/25
* LFT and Pancreas: 11/15
* CSF: 11/29
* Reproductive: 12/6

**Exam dates:**

* Sept 6
* Oct. 4
* Nov. 3
* Dec. 13

**Case Study Due Date:**

* Dec. 6

**Quizzes:**

* Quizzes will be given during class and will not be announced prior to administration.

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. Students will receive a zero for any missed quizzes. Late assignments will not be accepted and a zero will be given for any late or missing assignments. 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 Sandra Citty 352-356-1581 **prior** to the scheduled exam.

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 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. (2015). *Pathophysiology*: *The biologic basis for disease in*

*adults and children* (7th ed.). St. Louis: Mosby/Elsevier.

COURSE SCHEDULE

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| **Date** | **Topic/Readings/Assignments** | **Readings** | **Homework** |
| August 23 or 24 | Course Introduction  Cellular Metabolism and Genetic Basis of Health  Stress & Disease, Cellular Injury & Inflammation, Integumentary (wound healing) | Chapters 2,7,11  See canvas for additional resources | View: Aging & Free Radicals Narrated Lecture (on Canvas) |
| August 30 or 31 | Physiology of Pain, Sleep, Temperature Regulation & Vital Signs  Fluid and Electrolytes  Acids and Bases | Chapter 16  Chapter 3  See canvas for additional resources | Do Vital signs exercise Do electrolyte worksheet |
| Sept. 6 or 7 | Exam 1 (first part of class)  Alterations in cognition, perception and affect  Psychopathology - neurotransmitters | Chapter 19  See canvas for additional resources | View narrative PPT Neurotransmitters – see CANVAS Psychopathology |
| Sept. 13 or 14 | Hematologic Diseases | Chapters 27-30  See canvas for additional resources | Watch the 4 narrative mediasite Hematology videos: Polycythemia, Sickle Cell Disease, Hemophilia, & DIC  Do CBC worksheet  Do coagulation worksheet |
| Sept. 20 or 21 | Pulmonary Diseases  Breast Disorders | Chapters 34-35  See canvas for additional resources | View narrative mediasite PPT on Canvas: Breast disorders, Cystic Fibrosis & Lung Cancer  Do ABG worksheet |
| Sept. 27 or 28 | Immunity, Alterations in Immunity, & Infection; Cancer: Mutations & Metastasis; Leukemia, Lymphoma, & Multiple Myeloma | Chapters 7-13  See canvas for additional resources | Watch the narrative mediasite Videos: Immunity, Leukopenia, & AIDS  Do Culture & Sensitivity worksheet |
| Oct. 4 or 5 | Exam 2 (First part of class)  Psychopathology | See canvas | View narrative PPT Substance Abuse Pathology #1 – see CANVAS Psychopathology |
| Oct. 11 or 12 | Cardiovascular Diseases | Chapters 31-33  See canvas for additional resources | View narrative mediaiste PPT on cardiovascular diseases (PVD and PE) |
| Oct. 18 or 19 | Urinary Tract Disorders & Renal Diseases | Chapters 37, & 38 | Do Urinalysis worksheet |
| Oct. 25 or 26 | Gastrointestinal Disorders  Liver and Pancreatic Disease  Colon cancer | Chapters 40- 41  See canvas for additional resources | View narrative PPTs via mediasite - gallbladder, colon cancer, liver, pancreas |
| Nov. 1 or 2 | Exam 3 (First part of class)  Psychopathology | See canvas | View narrative PPT #2,3,4 Substance Abuse Pathology |
| Nov. 8 or 9 | Liver and Pancreatic Disease Alteration in Digestive Function in Children | Chapters 41-42  See canvas for additional resources | Do LFTs and Pancreatic Function worksheet |
| Nov. 15 or 16 | Neurologic Diseases  Increase ICP, Stroke, Brain Injury | Chapter 15, 17, 19-20  See canvas for additional resources | View narrative PPT on mediasite – neurological disorders  Do CSF worksheet |
| Nov 22-23 Thanksgiving Week – No Formal Class (Review Reproductive online lectures and resources) | Reproductive Pathophysiology and Normal A&P of Pregnancy | Chapters 23-26  See canvas for additional resources | Do Reproductive worksheet  Review resources on canvas (web links and mediasite narrative presentations) normal A&P pregnancy |
| Nov. 29 or 30 | Neurologic Diseases  Degenerative Disorders  Musculoskeletal Disease | Chapter 18, 43-45  See canvas for additional resources |  |
| Dec. 6 or 7 | Endocrine Diseases | Chapter 21-22  See canvas for additional resources | Case study due |
| Dec. 13 | Final Exam (Cumulative) | | |

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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 |