UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

SUMMER 2023

COURSE NUMBER NUR 3123

COURSE TITLE Pathophysiology and Pharmacology

CREDITS 4

PLACEMENT RN/BSN Program: RN to BSN Track

PREREQUISITES Admission to RN-BSN Track

COREQUISITES None

FACULTY

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| Allison Peters, DNP, RN, CNOR, NECClinical Assistant ProfessorOffice: HPNP 4206Office Phone: (352) 294-5721Cell Phone: as requestedOffice Hours: Thursday 9-11 am virtually & by appointment Email: petal@ufl.edu | Anthony Roller, DNP, APRN, CPNP, A/C-P/CClinical Assistant ProfessorOffice: HPNP 2218Office Phone: (352) 273-6332Office Hours: Mon & Wed 12-1 pm virtually & appointmentEmail: anthony.roller@ufl.edu |
| Laura Gardner, MSN, RNClinical Lecturer Office: HPNP 3213Office phone: 352-273-6358Office Hours: Thursday 12:30-2:30 pm virtually & by appointment Email: lgardner@ufl.edu |  |

COURSE DESCRIPTION This course is designed to improve the learner’s ability to understand cellular physiology and alterations in structure and function resulting from the action of stressors on the human body at the cellular level. Physiological, pathophysiological, psychobiological, and pharmacological concepts are examined that provide a foundation for understanding the pathophysiology of disease and the rationale for treatment including pharmacologic therapy that serve as a basis for critical thinking and decision making in the planning and managing of care for individuals across the life span are examined.

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 psychobiological processes across the lifespan.
2. Explain relationships among pathophysiological processes, laboratory and diagnostic tests, and clinical manifestations of selected illnesses and the pharmacological treatment.

3. Identify genetic factors that influence pathophysiological and psychobiological processes in diverse clients.

4. Distinguish differences between developmental physiological alterations and pathophysiological processes.

5. Explain psychobiological processes associated with functional alterations in client’s behavior.

1. Explain the rationale for pharmacological therapies related to the physiological, pathophysiological and/or psychobiological processes occurring in the individual.

COURSE SCHEDULE

 Faculty Section Day

 Peters 7E19 UF Online

 Gardner 0226 UF Online

 Roller 7060 UF Online

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 an email to 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. Content, dates, and mode of delivery are subject to change to facilitate learning.

TOPICAL OUTLINE

1. Cellular metabolism and genetic basis of health
2. Fluid and electrolytes
3. Acid/base balance
4. Alterations in physiological systems
5. Hematopoietic system
6. Immune system
7. Cellular proliferation
8. Circulatory system
9. Pulmonary system
10. Digestive system
11. Endocrine system
12. Renal system
13. Reproductive systems
14. Neurological system
15. Musculoskeletal system
16. Integumentary system
17. Alterations in cognition, perception, and affect

TEACHING METHODS

Lecture, audiovisual materials, written materials, and presentation of case studies.

LEARNING ACTIVITIES

Readings, worksheets, discussions, case study analysis, and study questions.

**Note:** Course content & dates are subject to change to facilitate learning.

EVALUATION METHODS/COURSE GRADE CALCULATION

 Exam 1 12%

 Exam 2 12%

 Exam 3 12%

 Quizzes 28%

(Pathophysiology 14% & Pharmacology 14% - Note Quizzes are due Sundays @ 2359 weekly)

 Discussion Boards 200 points 16%

 Case Study 20%

 Total 100%

*Feedback on all graded assignments routinely is given within 10 working days of the due date.*

*Course Average*

Students must earn an average of 74% on all required course work (exams and assignments) to pass the course. No final grades will be rounded.

MAKE UP POLICY

Make-up exams/assignments will be arranged for university excused absences. Unexcused late work may receive a 10% grade deduction for each day for a maximum of 3 days unless otherwise arranged with instructor. University policies can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

GRADING SCALE/QUALITY POINTS

 A 95-100 (4.0) C 74-79\* (2.0)

 A- 93-94 (3.67) C- 72-73 (1.67)

B+ 91- 92 (3.33) D+ 70-71 (1.33)

 B 84-90 (3.0) D 64-69 (1.0)

 B- 82-83 (2.67) D- 62-63 (0.67)

 C+ 80-81 (2.33) E 61 or below (0.0)

 \* 74 is the minimal passing grade

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

COURSE EVALUATION

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

ACCOMMODATIONS DUE TO DISABILITY

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://disability.ufl.edu/ ) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

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.

INCLUSIVE LEARNING ENVIRONMENT

We strive to provide an inclusive learning environment as we prepare graduates who care, lead, and inspire. As we share our nursing values and personal beliefs inside or outside of the classroom, it is

always with the understanding that we value and respect diversity of background, experience, and opinion, where every individual feels they belong to the College of Nursing community. <https://nursing.ufl.edu/wordpress/files/2022/08/BSN_DNP-Handbook-Jul-28-2022.pdf>

CIVILITY STATEMENT

Civility among all individuals in the CON (faculty, staff and students) is vital for an inclusive environment that fosters personal reflection, growth and a collective harmony. <https://nursing.ufl.edu/wordpress/files/2022/08/BSN_DNP-Handbook-Jul-28-2022.pdf>

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 <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/> . 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.

University and College of Nursing Policies

Please see the College of Nursing website for student policies (<http://students.nursing.ufl.edu/currently-enrolled/student-policies-and-handbooks/>)

REQUIRED RESOURCE

An online proctoring service will be used allowing testing offsite. Students are required to have a working webcam, and a stable Internet connection using Google Chrome. On the day of testing you will be instructed to download a testing extension via email. An authentication process will include a picture of yourself, UF ID, and scanning the room. All testing is based on honor code, students found breaching the honor code will be dismissed from the UF College of Nursing and possibly the University of Florida.

REQUIRED TEXTBOOKS

Burchum, J. R., & Rosenthal, L. D. (2022). *Lehne's pharmacology for nursing care* (11th ed.).

 St. Louis, MO: Elsevier Saunders.

McCance, K.L., & Huether, S. E. (2023). *Pathophysiology*: *The biologic basis for disease in*

 *adults and children* (9th ed.). St. Louis: Mosby/Elsevier.

RECOMMENDED TEXTBOOKS

American Psychological Association. (2020). *Publication manual of the American Psychological Association 2020: The official guide to APA style* (7th ed.). American Psychological Association

WEEKLY CLASS SCHEDULE

| WEEK | **DATE** | **TOPIC** | **ASSIGNMENT DUE DATES** |
| --- | --- | --- | --- |
| 1 | 5/15-5/20/23 | Orientation to course, syllabus quiz, metabolism/ANS | **5/23/2023 by 2359 (11:59 p.m.)** |
| 2 | 5/21-5/27 | Fluids & Acid/Base Balance | **5/28 by 2359** |
| 3 | 5/28-6/3 | Hematopoietic System | **6/5 by 2359** |
| 3 | 5/29/23 | Holiday Memorial Day |  |
|  | 6/6 | Exam I (Modules 1-3) | **6/8 by 2359** |
| 4 | 6/4-6/10 | Immune System | **6/12 by 2359** |
| 5 | 6/11-6/17 | Genetic Basis & Cancer | **6/18 by 2359** |
| 6 | 6/18-6/24 | Pulmonary System | **6/25 by 2359** |
|  | 6/26-7-2 | Summer Break |  |
| 7 | 7/3-7/8 | Circulatory System | **7/9 by 2359** |
|  | 7/4/23 | Holiday Independence Day |  |
|  | 7/5 | Exam II (Modules 4-7) | **7/7 by 2359** |
| 8 | 7/9-7/15 | Renal & Reproductive Systems | **7/16 by 2359** |
| 9 | 7/16-7/22 | Gastrointestinal System | **7/23 by 2359** |
|  | 7/23 | Case Study Due |  |
| 10 | 7/23-7/29 | Endocrine & Musculoskeletal Systems | **7/30 by 2359** |
| 11 | 7/30-8-5 | Neurological System | **8/6 by 2359** |
| 12 | 8/6-8/11 | Conclusion |  |
|  | 8/7 | Exam III (Modules 8-11) |  |

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| Approved: | Academic Affairs Committee:General Faculty:UF Curriculum Committee: | 07/1407/14 |