UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Fall 2021

COURSE NUMBER NUR 3196

COURSE TITLE Pathophysiology/Pharmacology in Nursing 1

CREDITS 04

PREREQUISITES Admission to the Nursing Program

COREQUISITES NUR3737C: Principles of Personalized Nursing Care 1

NUR3066C: Health Assessment

NUR3106: Lead & Inspire 1

FACULTY Anne C. Dillard, DNP, RN, AGCNS, CNE

Clinical Assistant Professor

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Office hours: Tuesday 2-4 PM, and by appointment

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Allison Peters, DNP, RN, CNOR, NEC

Clinical Assistant Professor

Office: HPNP 4206

(352) 294-5721

\*Office hours: Thursday 1:00-3:00 PM, and by appointment

Email: [petal@ufl.edu](mailto:petal@ufl.edu)

(\*) – Office hours may be adjusted during the semester. Updates from your faculty will be provided in the Canvas course

COURSE DESCRIPTION This course is part one of a two semester sequence for pre-licensure students examining pathophysiology and pharmacology of human illness in diverse groups of individuals across the lifespan. Emphasis is on alterations in homeostatic mechanisms and underlying bases for disease risk/manifestations. Corresponding pharmacokinetics, pharmacodynamics and pharmacogenetic principles will be included.

COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

1. Utilize principles from the genetic and biobehavioral sciences to explain the relationship between pathophysiological processes, diagnostic tests, and clinical manifestations and corresponding pharmacotherapeutics of selected alterations.
2. Distinguish differences between developmental physiological alterations and pathophysiological processes.
3. Interpret the general principles of pharmacotherapeutics, pharmacokinetics, pharmacodynamics, and pharmacogenetics/genomics in wellness promotion and illness prevention and treatment.
4. Apply the principles of the safe medication management process identifying the responsibilities and standards of care for the professional nurse.
5. Differentiate factors such as age, developmental level, psychosocial, cultural, environmental, and genetic considerations and how these may affect an individual’s physiologic response.
6. Apply legal, ethical, and cultural parameters of medication teaching, administration and adherence .

COURSE SCHEDULE

Faculty Section Day/Time Room

Dillard 3F17 Thursday/8:30am-12:35pm G114

Dungan 3F20 Wednesday/8:30am-12:35pm G210

Peters 3F19 Thursday/8:30am-12:35pm 1101

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.

TEACHING METHODS

* Inquiry based learning
* Collaborative activities
* Interactive Learning Platforms
  + Tophat interactive system
  + ebook -Dosage Calculations

LEARNING ACTIVITIES

* Pre-class activities
* Canvas Learning Bursts
* Reading assignments
* CLIC Math - Dosage Calc. 360
* Collaborative team assignments (ex: Case studies)
* Discussion forums

\***NOTE: Presentation dates and course content are subject to change to enable learning.**

EVALUATION METHODS/COURSE GRADE CALCULATION

|  |  |
| --- | --- |
| ***Exams***  Exam 1 | 15% |
| Exam 2 | 17% |
| Exam 3 | 17% |
| Final Exam | 26% |
| ***Other Coursework***  CLIC Math Dosage Calc 360 | 10% |
| Partners in Patho | 5% |
| Participation | 10% |
| Total | 100% |

*Course Average*

Students must have an average exam score of at least 74% after taking all scheduled course exams, including the HESI exam, in order to pass the course. Students must achieve an average of 74% on exams (cumulatively) before the remaining assignment percentages are calculated into the final course grade.

CLASS ATTENDANCE AND MAKEUP POLICY

Collaborative learning is an essential component of this course; therefore, attendance is expected at all scheduled classes. Advanced notice of absence is expected. In general, acceptable reasons for absence from or failure to participate in class include illness, serious family emergencies, special curricular requirements (e.g., professional conferences **with advanced notice and approval**), military obligation, severe weather conditions, religious holidays, and participation in official university activities. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) are excused. Makeup assignments for excused absences will be planned with the instructor. **If at all possible**, the course instructor must be notified in advance if an exam is missed due to an extenuating circumstance. If no notice is given or without prior approval of an absence for a reason listed above, a grade of zero will be assigned. Students may not opt out of any exams.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found 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.

***As students in the health professions at UF Health, you are expected to promote safety and a culture of care and concern for each other and for patients. Across our academic health center’s missions of research, teaching and patient care, nursing students must lead by example and take individual responsibility for modeling healthy habits and behaviors to minimize the spread of COVID-19. Failure to comply with the established public health measures, both on and off campus, is considered a serious breach of professional conduct.***

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/>) and a full explanation of each of the university policies – (<http://students.nursing.ufl.edu/currently-enrolled/course-syllabi/course-policies>)

UF Grading Policy

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Faculty Evaluations

Student Use of Social Media

REQUIRED TEXTBOOKS

Adams, M., Holland, N. & Urban, C. (2020). *Pharmacology for nurses: A pathophysiological approach (6th Ed.).* Pearson.

Heuther, S., McCance, K., Brashers, V. & Rote, N. (2020). *Understanding pathophysiology (7th*  *Ed.).* Elsevier.

Martinez de Castillo, S. & Werner-McCullough, M. (2019). *Dosage Calculations 360* (e-text resource). FA Davis.

WEEKLY CLASS SCHEDULE

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| --- | --- | --- | --- | --- |
| **Week #** | **Module #** | **Wednesday or Thursday classes**  Dates/Times | Topic | Course Objectives  Program Outcomes |
| **1** | 1 | 8/25, 8/26 | Introduction to pharmacology (week 1) | 3,4,5 (1,3,4) |
| **2** | 2 | 9/1, 9/2 | Introduction to pharmacology (week 2) | 1,3,4,5, 6 (1,3,4) |
|  |  | 9/6 | Labor Day-Monday (no classes) |  |
| **3** | 3 | 9/8, 9/9 | Stress | 1,2,3,4,5,6 (1,3,4) |
| **4** | 4 | 9/15, 9/16 | Fluids and Electrolytes | 1,3,4 (1,3,4) |
| **5** | 5 | 9/22, 9/23 | **Exam 1** Modules 1-4    Renal – Asynchronous lesson | 1,2,3,4,5,6 (1,3,4) |
| **6** | 6 | 9/29, 9/30 | Diabetes Mellitus | 1,2,3,4,5,6 (1,3,4) |
| **7** | 7 | 10/6, 10/7 | Coagulation  Hematopoietics | 1,2,3,4,5,6 (1,3,4) |
| **8** | 8 | 10/13, 10/14 | **Exam 2** Module 5-7  Pain – Asynchronous lesson | 1,2,3,4,5,6 (1,3,4) |
| **9** | 9 | 10/20, 10/21 | Respiratory | 1,2,3,4,5 (1,3,4) |
| **10** | 10 | 10/27, 10/28 | Cardiovascular | 1,2,3,4,5 (1,3,4) |
| **11** | 11 | 11/3, 11/4 | **Exam 3** Module8-10  Nutrition  Complementary and alternative medicine (CAM) Asynchronous lesson | 1,3,4,5,6 (1,3,4) |
| **12** | 12 | 11/10 | Inflammation and Immunity  Asynchronous lesson | 1,2,3,4,5 (1,3,4) |
|  |  | 11/11 | Veteran’s Day-Thursday (No classes) |  |
| **13** | 13 | 11/17, 11/18 | Infections - (week 1) | 1,2,3,4,5(1,3,4) |

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| **14** |  | 11/22 – 11/26 | No class this week  Thanksgiving |  |
| **15** | 14 | 12/1, 12/2 | Infections – (week 2) | 1,2,3,4,5(1,3,4) |
|  |  | 12/15/21 | **Final Exam – Comprehensive** 0900-1200 |  |

BSN PROGRAM OUTCOMES

1. Apply critical thinking to synthesize knowledge grounded in liberal education and nursing, in the

practice of professional nursing in the global community.

1. Collaborate with the healthcare team and clients to provide safe and cost effective high quality

health care.

1. Integrate evidence-based findings in decision-making in the practice of professional nursing.
2. Appraise current evidence to evaluate health care safety and quality improvement initiatives for

individuals and groups.

1. Analyze information from health care technology systems to apply evidence that will guide

nursing practice.

1. Utilize knowledge of health care regulation to advocate for policy change to improve health care

systems and professional nursing practice.

1. Illustrate the importance of advocacy in the improvements in nursing practice and throughout

the healthcare system.

1. Demonstrate professional communication, collaboration and documentation with healthcare

teams to support improvement in patient health outcomes.

1. Utilize health promotion, health maintenance, and disease prevention strategies across settings

to improve the health of diverse individuals and populations across the lifespan.

1. Demonstrate professional competence and values reflective of professional nursing standards

and mutual respect within a global society.

1. Build therapeutic alliance with patients and families to provide personalized care.

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| Approved: | Academic Affairs Committee:  General Faculty:  UF Curriculum Committee: | 12/17 |