UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Summer 2019

COURSE NUMBER NUR 3196

COURSE TITLE Pathophysiology/Pharmacology in Nursing 1

CREDITS 04

PREREQUISITES Admission to the Nursing Program

COREQUISITES None

FACULTY Anne C. Dillard, DNP, RN, AGCNS-BC

Course Manager

Clinical Assistant Professor

Section:

Office: HPNP 3231

(352) 273-6366

Office hours: Tuesday 1200-1400 and by appointment

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

Jennifer Vendt, DNP, ARNP, CPNP-PC, PHC

Clinical Assistant Professor

Section:

Office: HPNP 4219

(352) 273-6512

Office hours: Tuesday 1200-1400 and by appointment

[jvend001@ufl.edu](mailto:jvend001@ufl.edu)

Michael Aull, MSN, RN, CEN

Clinical Lecturer

Section:

Jacksonville CON, 3rd Floor LRC

724-882-7578 Cell

Office hours: Wednesday 0900-1100

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

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

Section Instructor Day Time Room

8D40 Dillard Monday 8:00 am-12:00 am G316

8D42 Vendt Tuesday 8:00 am-12:00 am G316

8D35 Aull Friday 9:00 am - 1:00 pm COP, Tower II 1st floor

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 resources are generally made available on the Friday before the first day of classes.

TEACHING METHODS

Presentations/Discussions/Learning Burst Videos

Interactive and collaborative classroom activities including case studies

Simulated clinical practice

LEARNING ACTIVITIES

Pre-class activities – including Canvas Learning Bursts videos

Reading assignments

Participation in small group activities and class discussion

MyLab for Pharmacology and CLIC Math assignments (Pearson electronic resources)

Discussion Forums

EVALUATION METHODS/COURSE GRADE CALCULATION

Exams (4) 48%

GVL:

|  |  |  |  |
| --- | --- | --- | --- |
| Exam 1 | 5/31/19 | 2:30-5:00 | CG 23 Testing Center |
| Orange grp Exam 2 | 6/17/19 | 1:30-3:00 | CG23 Testing Center |
| Blue grp Exam 2 | 6/18/19 | 3:30-5:00 | CG 23 Testing Center |
| Exam 3 | 7/12/19 | 2:30-5:00 | CG 28 Testing Center |
| Exam 4 | 7/26/19 | 2:30-5:00 | 1404 Auditorium |
| Final | 8/8/19 | 2:30-4:30 | CG 28 Testing Center |

JAX:

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| --- | --- | --- |
| Exam 1 | 6/4/2019 | 1:00-3:00 |
| Exam 2 | 6/17/2019 | 2:30-4:30 |
| Exam 3 | 7/9/2019 | 1:00-3:00 |
| Exam 4 | 7/29/2019 | 10:00am-12:00pm |
| Final | 8/9/2019 | 2:00-4:00 |

MyLab 15%

MyLab CLICMath 10%

Participation 15%

Comprehensive final exam 12%

100%

Course exams are based on content presented or assigned previously (non-cumulative). A comprehensive final exam will be given during final exam week.

CLASS ATTENDANCE AND MAKEUP POLICY

Collaborative learning is an essential component of this course; therefore, attendance is expected at all scheduled class and laboratory sessions. 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**), 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 negotiated 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>.

LATE ASSIGNMENTS

Students are expected to plan in advance and submit assignments by posted due dates.

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>

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 <https://sccr.dso.ufl.edu/students/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://nursing.ufl.edu/students-2/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 TEXTBOOKS

Adams, Holland, Urban. (2017). *Pharmacology for nurses: A pathophysiologic approach.*

Hoboken, New Jersey. Pearson.

Giangrasso, Shrimpton. (2018). *Dosage calculation: a multimethod approach.* Hoboken, New Jersey. Pearson.

Hoffman, Sullivan. (2017). *Medical-surgical nursing: making connections to practice.*

Philadelphia, Pennsylvania. F.A. Davis Company.

MyLab for *Pharmacology for Nurses*. Access code card.

My Lab for *Dosage calculation: a multimethod approach*. Access code card.

CLASS SCHEDULE

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| Date | Module | Topic | Course Objective  (Program Outcome) |
| May 13-17 | 1 | Orientation To Course  1 Intro To Pharmacology  2 Drug Approval And Regulation  3 Principles Of Drug Admin  7 Medication Errors And Risk Reduction | 4, 6 (1, 3) |
| May 20-24 | 2 | 4 Pharmacokinetics  5 Pharmacodynamics  CLICMath  1 Review of Arithmetic for Dosage Calculations | 1,3,4,5 (1,3,4) |
| May 27 |  | Memorial Day – no campus classes  (Monday students - class materials on-line) |  |
| May 28-31 | 3 | 6 The Nursing Process In Pharmacology  8 Drug Admin Throughout The Lifespan  9 Individual Variations In Drug Response  CLICMath  2 Safe and Accurate Medication Administration | 1,2,4,5,6 (1,3,4) |
| May 31  **Friday** |  | Exam 1  Module 1, 2 including CLICMath |  |
| Jax ONLY June 4th  Tuesday  1300 |  | Exam 1  Module 1, 2 including CLICMath |  |
| June 3-7 | 4 | 12 Cholinergic Drugs Affecting The ANS  13 Adrenergic Drugs Affecting The ANS  CLICMath  2 Safe and Accurate Medication Administration | 1,4 (1) |
| June 10-14 | 5 | 33 Drugs For Inflammation And Fever  34 Drugs For Immune System Modulation  35 Drugs For Bacterial Infections  CLICMath  3 Dimensional Analysis and Ratio Proportion | 1,3,4,5 (1,3,4) |
| June 17  **Monday** |  | Exam 2  Module 3,4,5 including CLICMath |  |
| June 17-21 | 6 | 39 Drugs For Allergic Rhinitis And The Common Cold  40 Drugs For Asthma And Other Pulmonary Disorders  CLICMath  3 Dimensional Analysis and Ratio Proportion | 1,5 (1,3) |
| June 24-28 |  | SUMMER BREAK |  |
| July 1-3, 5 | 7 | 23 Drugs For Lipid Disorders  26 Drugs For Hypertension  28 Drugs For Angina Pectoris And Myocardial Infarction  CLICMath  4 The Household and Metric Systems | 1,4,5 (1,3,4) |
| July 8-12 | 8 | 25 Drugs For Fluid Balance, Electrolyte And Acid Base Disorders  CLICMath  5 Converting from One System of measurement to Another | 1,2,3,4 (1,2,3) |
| Jax ONLY July 9th  Tuesday  1300 |  | Exam 3  Module 6, 8 including CLICMath |  |
| July 12  **Friday** |  | Exam 3  Module 6, 8 including CLICMath |  |
| July 15-19 | 9 | 45 Drugs For Diabetes  CLICMath  6 Oral Medications | 1,3,4,5 (1,3,4) |
| July 22-26 | 10 | 10 The Role Of Complementary And Alternative Therapies In Pharmacology  18 Drugs For The Control Of Pain  43 Drugs For Nutritional Disorders  CLICMath  6 Oral Medications | 1,3,4 (1,3,4,5) |
| July 26  **Friday** |  | Exam 4  Module 8,9 including CLICMath |  |
| Jax ONLY July 29th  Monday  1000 |  | Exam 4  Module 8,9 including CLICMath |  |
| July 29-31, Aug 1-2 | 11 | 48 Drugs For Bone And Joint Disorders  49 Drugs For Skin Disorders  50 Drugs For Eye And Ear Disorders  CLICMath  7 Syringes | 1,3,4 (1,3) |
| Aug 5-9 |  | Finals week  Module 10,11 including CLICMath  Comprehensive Final Exam |  |

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| Approved: | Academic Affairs Committee:  General Faculty:  UF Curriculum Committee: | 12/17  12/17  01/18 |

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.
2. Collaborate with the healthcare team and clients to provide safe and cost effective high quality health care.
3. Integrate evidence-based findings in decision-making in the practice of professional nursing.
4. Appraise current evidence to evaluate health care safety and quality improvement initiatives for individuals and groups.
5. Analyze information from health care technology systems to apply evidence that will guide nursing practice.
6. Utilize knowledge of health care regulation to advocate for policy change to improve health care systems and professional nursing practice.
7. Illustrate the importance of advocacy in the improvements in nursing practice and throughout the healthcare system.
8. Demonstrate professional communication, collaboration and documentation with healthcare teams to support improvement in patient health outcomes.
9. Utilize health promotion, health maintenance, and disease prevention strategies across settings to improve the health of diverse individuals and populations across the lifespan.
10. Demonstrate professional competence and values reflective of professional nursing standards and mutual respect within a global society.

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