UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Summer 2021

COURSE NUMBER NUR 3196

COURSE TITLE Pathophysiology/Pharmacology in Nursing 1

CREDITS 04

PREREQUISITES Admission to the Nursing Program

COREQUISITES None

FACULTY Allison Peters DNP, RN, CNOR, NEC

Clinical Assistant Professor

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

Clinical Assistant Professor/ Course Facilitator\*

Office: HPNP 3228

Office phone: (352) 273-6512

Office hours: Wednesday 3pm-5pm

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

Faculty Section Day Time Room

Peters 8D40 Wednesday 1:30-5:30 pm 1404

Stephen 8D42 Thursday 8:00am-12:00 pm 1404

Vendt\* 8D35 Wednesday 8:00am-12:00 pm Tower – Jacksonville

Our class sessions may be audio visually recorded for students in the class to refer back and for

enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded.  If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded.  If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance safety.

* You are required to wear approved face coverings at all times within campus buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.
* If you are experiencing COVID-19 symptoms ([Click here for guidance from the CDC on symptoms of coronavirus](https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html)), please use the UF Health screening system and follow the instructions on whether you are able to attend class. [Click here for UF Health guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms](https://coronavirus.ufhealth.org/screen-test-protect/covid-19-exposure-and-symptoms-who-do-i-call-if/).
* Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work. [Find more information in the university attendance policies](https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/)

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.

TEACHING METHODS

Canvas Videos

Collaborative Activities

Simulated Clinical Practice

Interactive Learning Platforms

Lecture/discussion

LEARNING ACTIVITIES

Pre-class Activities

Canvas Learning Bursts

Reading Assignments

TopHat

CLIC Math: Dosage Calc 360

Small group activities

Class discussion

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

EVALUATION METHODS/COURSE GRADE CALCULATION

|  |  |
| --- | --- |
| Exam 1 | 15% |
| Exam 2 | 15% |
| Exam 3 | 15% |
| Final Exam | 25% |
| CLIC Math: Dosage Calc 360 | 10% |
| Partners in Patho Quizzes | 7.5% |
| Class Participation | 7.5% |
| Pharmstagram | 5% |
| Total | 100% |

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.

COURSE AVERAGE

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

GRADE ROUNDING

No grades will be rounded including exam averages and final course grade.

CLASS ATTENDANCE AND MAKE UP 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>.

LATE ASSIGNMENTS

Students are expected to plan in advance and submit assignments by posted due dates. Students will receive a zero on a late assignment. Accommodations will only be provided for excused absences.

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.

Your course faculty believe that everyone participating in activities in this class is intelligent, capable, cares about doing their best, and wants to improve. We are committed to acknowledging each person’s best intentions and their capacity for change. We recognize that our lived experiences inform the lens of our interpretations and reactions to events, and therefore believe there is no blame, no shame as we explore our unconscious biases and behaviors. We are committed to seeing each other as individuals and not just our social identities, and therefore believe each person speaks as individuals; we don’t expect anyone to speak for nor represent a particular group. (Davis, 2020)

***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

PRIVACY POLICIES/ ELECTRONIC RESOURCES

Below are links to the privacy policies associated with *possible* corporate electronic resources used in our course.

Elsevier <https://www.elsevier.com/legal/privacy-policy>

Top Hat <https://tophat.com/company/legal/privacy-policy/>

REQUIRED TEXTBOOKS

Ackley, B., Ladwig, G. & Makic, M. (2019). *Nursing diagnosis handbook. An evidence-based guide to planning care (12th Ed.).* Elsevier.

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.

CLASS SCHEDULE

| **Dates** | **Module** | **Topic** | **COURSE OBJECTIVE**  **(Program Outcome)** |
| --- | --- | --- | --- |
| 5/9-5/15 | **Module 1** | **INTRO. TO PHARMACOLOGY** | 1,3,4,5,6 (1,3,4) |
| 5/16-5/22 | **Module 2** | **STRESS and DISEASE** | 1,4 (1) |
| 5/23-5/29 | **Module 3** | **CARDIOVASCULAR** | 1,2,3,4,5,6(1,3,4,8) |
| **May 31st Memorial Day: School Holiday** | | | |
|  |  | **Exam 1 Modules 1-3**  **June 2nd and 3rd during class time** |  |
| 5/30-6/5 | **Module 4** | **RESPIRATORY (asynchronous)** | 1,2,3,4 (1,2,3) |
| 6/6-6/12 | **Module 5** | **FLUIDS AND ELECTROLYTES** | 1,5 (1,3) |
| 6/13-6/19 | **Module 6** | **RENAL, DIABETES** | 1,3,4 (1,3,4,5) |
| **Summer Break June 21st-25th** | | | |
|  |  | **Exam 2 Modules 4-6**  **June 30th and July 1st during class time** |  |
| 6/27-7/3 | **Module 7** | **COAGULATION/HEMATOPOIETICS (asynchronous)** | 1,2,3,4,5,6(1,3,4,8) |
| **July 5th Independence Day Observed: School Holiday** | | | |
| 7/4-7/10 | **Module 8** | **INFLAMMATION AND IMMUNITY** | 1,3,4,5 (1,3,4) |
| 6/27-7/14 | **Module 9** | **NUTRITION**  **COMPLEMENTARY AND ALTERNATIVE MEDICINE (CAM) PAIN (asynchronous)** | 1,3,4,5 (1,3,4) |
|  |  | **Exam 3 Modules 7-9**  **July 14th and 15th during class time** |  |
| 7/18-7/24 | **Module 10** | **INFECTIONS – WEEK 1 (asynchronous)** | 1,3,4,5(1,3,4) |
| 7/25-7/31 | **Module 11** | **INFECTIONS – WEEK 2** | 1,3,4,5(1,3,4) |
|  |  | **Comprehensive Final Date TBD** |  |

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.
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

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