UNIVERSITY OF FLORIDA COLLEGE OF NURSING COURSE SYLLABUS

FALL 2020

COURSE NUMBER NGR 6140

COURSE TITLE Physiology and Pathophysiology for Advanced Nursing Practice

CREDITS 4

PLACEMENT Variable

PREREQUISITES None

COREQUISITES None

FACULTY

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COURSE DECRIPTION

This course provides an advanced understanding of concepts in human physiology and pathophysiology as a foundation for the advanced nursing practice role. Concepts related to biological sciences including cell biology, tumor biology, immunology, genetics, and pathology will be presented. The focus of this course is on principles, theories, and current research related to physiological and pathophysiological system alterations across the lifespan.

COURSE OBJECTIVES

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

1. Integrate knowledge from the physical, biological, and social sciences to understand human physiological functioning across the lifespan.
2. Analyze the relationship between normal physiological processes and pathophysiological process across the lifespan.
3. Explain the etiology, at-risk populations, and pathogenesis, morphology, and clinical and diagnostic manifestations of selected acute and chronic disease states.
4. Apply self-learning principles in the advanced practice role in integrating current research-based findings to understand etiology, pathogenesis and morphological alterations of selected acute and chronic disease states.
5. Relate underlying physiological and/or pathophysiological alterations to health assessment findings.

COURSE SCHEDULE

This is a web-based course with asynchronous class meetings.

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.

When we have face-to-face instructional sessions to accomplish the student learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

* You are required to wear approved face coverings at all times during class and within 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.
* This course has been assigned a physical classroom with enough capacity to maintain physical distancing (6 feet between individuals) requirements. Please utilize designated seats and maintain appropriate spacing between students. Please do not move desks or stations.
* Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
* Follow your instructor’s guidance on how to enter and exit the classroom.  Practice physical distancing to the extent possible when entering and exiting the classroom.
* 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/).

NGR 6140 is a challenging course due to the substantive content which requires several hours per week for reading, studying, reviewing course materials, and listening to the lectures. Time management and open communication is critical to course success. Please reach out to faculty as soon as possible if you have questions or need clarification regarding course content or assignments.

NGR 6140 is a completely asynchronous course offered in an online format. There is no required class attendance, however quizzes, exams and other course assignments must be completed by the assigned due date. Any date changes will be announced in advance. Your continued enrollment in this course acknowledges agreement with the course schedule.

Faculty office hours are posted and held weekly either in-person or virtually. If you desire additional face to face time with the instructor, this can be arranged by emailing the professor.

PLEASE NOTE: Students are expected to complete all assignments within the posted timeframe. If an illness or emergency is experienced that prevents the student from completing assignments in a timely manner, the student should notify the faculty member in advance.

Faculty will consider such situations on a case-by-case basis. For additional information about absences, students should refer to attendance policies outlined in the [Student Handbook.](https://nursing.ufl.edu/wordpress/files/2019/08/2019-Student-Handbook.pdf)

TECHNOLOGY

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/.](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 Canvas site for announcements and notifications.

The College of Nursing utilizes Proctor U, a live proctoring service, for major examinations in

graduate web-based online courses to ensure a secure testing environment. See Canvas for more information on Proctor U and how to create an account.

* Each student’s computer must follow Policy S1.04, *Student Computer Policy* and must contain a web cam, microphone, and speakers.
* CON IT Support Office will oversee this process and provide technical assistance

TOPICAL OUTLINE

1. Concepts in developmental physiology
2. Physiological concepts in:
   1. Cellular Biology
   2. Immunology
   3. Genetics
   4. Tumor Biology
   5. Endocrinology
   6. Reproductive Function
   7. Neurology
   8. Hematology
   9. Dermatology
   10. Respiratory Function
   11. Cardiovascular Function
   12. Gastrointestinal Function
   13. Renal Function
   14. Musculoskeletal Function
3. Etiology, at-risk populations, pathogenesis, and morphology of selected acute and chronic disease states
4. Physiological and pathological alterations underlying clinical and diagnostic manifestations of selected acute and chronic disease states

TEACHING METHODS

Lecture, textbook, group discussion, presentation, audiovisual materials, computer assisted instruction, selected readings.

LEARNING ACTIVITIES

Case studies, discussions online, presentations, mini-paper, quizzes, and examinations.

EVALUATION METHODS/COURSE GRADE CALCULATION

Evaluation will be based upon the following areas:

Examinations (Midterm/Final @ 25% each) 50%

Mini Paper (individual work) 12.5%

Discussion Board Case Study Presentations (group 12.5%

assignment)

Quizzes (10 total @ 2.5% each; includes syllabus quiz) 25%

Total 100%

Students are expected to participate in the activities and discussion as listed in the course syllabus and on the course website. Timeframes for the posting and receiving of materials are listed in the course materials on Canvas.

EVALUATION DETAILS

All evaluation details including rubrics are listed on the Canvas course website in detail. Specific exam dates are listed here.

Midterm Examination: Must be completed by Oct. 23rd using ProctorU

Final Examination: Must be completed by Dec. 15th using ProctorU

MAKE UP POLICY

You must schedule and be present at a computer for all scheduled exams. Early testing is not an option. Make-up exams are given only for exceptional circumstances. Students must discuss the absence circumstances with faculty prior to the scheduled exam and a missed exam must be made up within one week. There will be no make up for any of the other assignments.

GRADING SCALE/GRADE 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/graduate/regulations/>

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.

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 TEXTBOOK

McCance, K. & Huether, S. (2018). *Pathophysiology: The Biologic Basis for Disease in Adults and Children (8th ed.)*. St. Louis, Missouri: Elsevier. ISBN-13: 978-0323583473; ISBN- 10: 9780323583473; https:/[/www.vit](http://www.vitalsource.com/referral?term=9780323413206)a[lsource.com/referral?term=9780323413206](http://www.vitalsource.com/referral?term=9780323413206)

RECOMMENDED TEXTBOOKS/WEBSITES

1. Publication Manual of the American Psychological Association, (7th Ed.).
2. https://owl.english.purdue.edu/owl/resource/560/08/

WEEKLY CLASS SSCHEDULE

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| **DATE** | **TOPIC/EVALUATION** | **READINGS** |
| **Week 01**  Aug 31-Sept 6 | Fluids, Electrolytes, Acids & Bases Genes, Environment-Lifestyle & Common Disease  Syllabus Quiz: Due 9/6 by 11:59pm  **(\*Note: Quiz & Assignment Due Dates are on Sunday)** | Chapter 3, 5 |
| **Week 02**  Sept 7- Labor Day Holiday | Mechanisms of Self-Defense  Quiz 2: Due 9/13 by 11:59pm | Unit III – Chapters 7-11 |
| **Week 03**  Sept 14-20 | Cellular Proliferation: Cancer Quiz 3: Due 9/20 by 11:59pm | Unit IV: Chapters 12-14 |
| **Week 04**  Sept 21-27 | The Neurologic System  Quiz 4: Due 9/27 by 11:59pm | Unit V: Chapters 15-20 |
| **Week 05**  Oct 2-3 Homecoming | The Endocrine System  Quiz 5: Due 10/4 by 11:59pm | Unit VI: Chapters 21-23 |
| **Week 06**  Oct. 5-11 | The Reproductive System  DB Case Study Presentation due 10/11 | Unit VII: Chapters 24-27 |
| **Week 07**  Oct. 12-18 | The Hematologic System  Quiz 6: Due 10/18 by 11:59pm | Unit VIII: Chapters 28-31 |
| **Week 08**  Oct. 19-25 | Semester Midterm Exam (Week 1-7 Content)  Test dates/times: Thurs. 10/22, 8 am – Fri. 10/23, 9pm | |
| **Week 09**  Oct. 26- Nov. 1 | The Cardiovascular & Lymphatic Systems | Unit IX: Chapters 32-34 |
| **Week 10**  Nov. 2-8 | The Pulmonary System  Quiz 8: Due 11/8, by 11:59pm | Unit X: Chapters 35-37 |
| **Week 11**  Nov. 11 Veterans Day | The Renal & Urologic Systems  Quiz 9: Due 11/15, by 11:59pm | Unit XI: Chapters 38-40 |

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| **Week 12**  Nov. 16-22 | The Digestive System  The Musculoskeletal System  Mini-paper due 11/22, by 11:59pm | Unit XII: Chapters 41-43 Unit XIII: Chapters 44-46 |
| **Week 13**  Nov. 23-29 | **THANKSGIVING BREAK** |  |
| **Week 14**  Nov. 30- Dec. 6 | The Integumentary System Multiple Interacting Systems  Quiz 10: Due 12/6, by 11:59pm | Unit XIV: Chapters 47-48 Unit XV: Chapters 49-50 |
| **Week 15**  Dec 7-11 | Review Week | |
| **Week 16**  Dec 12-18 Final Exam Week | Semester Final Exam (Week 8-14 Content)  Test dates/times: Mon. 12/14, 8 am – Tues. 12/15, 9pm | |

Approved: Academic Affairs Committee: 06/96; 04/01 Faculty: 08/96; 05/01

UF Curriculum: 10/96; 05/99