UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Spring 2019

COURSE NUMBER NGR 6140 Section 1H91

COURSE TITLE Physiology and Pathophysiology for Advanced Nursing Practice

CREDITS 4

PLACEMENT Variable

PREREQUISITES None

COREQUISITES None

FACULTY Donna Lester, DNP, ACNP-BC, MS, CC-CNS

Clinical Assistant Professor

AG-ACNP DNP Program

Office: HPNP 3212, Gainesville

Phone: 863-221-4513

E-mail: [dlester@ufl.edu](mailto:dlester@ufl.edu)

OFFICE HOURS: by appointment Tuesday 2-4pm

# COURSE DESCRIPTION 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.

1. Analyze the relationships between normal physiological processes and pathophysiological processes across the lifespan.
2. Explain the etiology, at-risk populations, pathogenesis morphology, and clinical and diagnostics manifestations of selected acute and chronic disease states.
3. 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.
4. Relate underlying physiological and/or pathophysiological alterations to health assessments findings.

COURSE SCHEDULE This is a web- based course with no scheduled class meetings.

Midterm Exam: March 13,14, 2018 : 0900-2300 using Proctor U

Final Exam: April 30, May 1, 2018 : 0900-2300 using Proctor U

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.

The College of Nursing utilizes ***ProctorU,*** a live proctoring service, for major examinations in graduate web-based online courses to ensure a secure testing environment.  See Canvas site for more information on Proctor U and how to create an account.

* Each student’s computer must be in compliance with 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:
3. Cellular Biology
4. Immunology
5. Genetics
6. Tumor Biology
7. Endocrinology
8. Reproductive Function
9. Neurology
10. Hematology
11. Dermatology
12. Respiratory Function
13. Cardiovascular Function
14. Gastrointestinal Function
15. Renal Function
16. 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, group discussion, presentations (presenting case studies on discussion board and leading discussions), audiovisual materials, computer assisted instruction, selected readings.

LEARNING ACTIVITIES

Case studies, discussions online, presentations, mini-papers, quizzes, midterm and final exams

EVALUATION METHODS/COURSE GRADE CALCULATION

**Evaluation will be based upon the following areas:**

|  |  |
| --- | --- |
|  | Percentage of Grade |
| 1. Midterm Exam | 20% |
| 2. Final Exam | 20% |
| 3. Mini Papers (2 papers) | 15% |
| 4. Discussion Board Case Study Presentations and Leadership of discussions (2 LEAD) | 15% |
| 5.Scholarly Posts | 15% |
| 6. Quizzes (8 total) | 10% |
| 7.Syllabus Quiz | 1% |
| 8.Case Study Partner Evaluation | 4% |
| Total: | 100% |
| **Extra Credit** **Quiz will be made available if there is 90% participation in the final course evaluation** | **1%** |

Students are expected to participate in the activities and discussions as listed in the course syllabus and on the course web-site. Timeframes for the posting and receiving of materials are listed in the course materials on the course web-site. Faculty will post grades within 14 days of the quizzes, exams and assignment due dates.

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at [https://evaluations.ufl.edu](https://evaluations.ufl.edu/). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

EVALUATION DETAILS: **1. Midterm Exam**

All questions will be based on textbook and discussion question board from Weeks 1-7.  
Exam dates: February 26th 8am – 27th at 10pm using Proctor U

**2. Final Exam**

All questions will be based on textbook and discussion questions from Modules 5-8.  
Exam dates: April 29th 8am – 30th 10pm using Proctor U

**3. Mini-papers (2 papers)**

These papers should be based on topics (your choice) from the modules readings and use articles no older than 5 years. See class schedule to review assigned chapters.

You must do 2 mini-papers this semester. The papers are worth 15% of your grade. Please see rubric regarding expectations for this paper and how papers will be graded.

**4. Discussion Board LEAD Participation**

Students will be assigned in groups of 2 to complete TWO **LEAD** case study assignments during this semester posting the case study with rubric contents on the discussion board (YellowDig) for others to review and leading the discussion for their assigned case study.

Discussion Board Leadership posts will be graded using the rubric found under the assignment:

Identify **LEAD** in the title and body of each leadership posting. Post by Friday of the assigned week. Also upload under the assignment tab. Don’t procrastinate!

1. **Discussion Board Participation (Scholarly Posts on YellowDig)**

# You are expected to participate in scholarly discussions at least once a week asking questions

# or commenting on the lead case study. This must be done each week by Sunday. Please

# refer to the rubric for requirements. This is worth 15% of your grade.

1. **Quizzes, 8 total**

Quizzes will be in multiple-choice format. You will have 30 minutes to complete each quiz. These quizzes are open book and must be completed individually; please do not work with a classmate. These are worth 10% of your grade

MAKE UP POLICY

You must schedule and be present at your 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 discussion boards, case study leadership on discussion boards or missed quizzes. Mini papers must be turned in on or before their due date to be considered for full credit.

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: http://gradcatalog.ufl.edu/content.php?catoid=4&navoid=907#grades

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/process/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>)

Attendance

UF Grading Policy

Accommodations due to Disability

Religious Holidays

Counseling and Mental Health Services

Student Handbook

Student Use of Social Media

Faculty Evaluations

* 1. “Students in this class are participating in a pilot evaluation of a new course evaluation system called GatorEvals. The new evaluation system is designed to be more informative to instructors so that teaching effectiveness is enhanced and to be more seamlessly linked to UF’s CANVAS learning management system. Students can complete their evaluations through the email they receive from GatorEvals, or in their Canvas course menu under GatorEvals. Please note your other classes this semester may be evaluated in the current GatorRater online evaluation system at [https://evaluations.ufl.edu](https://evaluations.ufl.edu/) . Thank you for serving as a partner in this important effort.”

DISABILITY STATEMENT

Students who wish to obtain individual accommodations due to special learning needs must register with the University of Florida Disability Resources Center (DRC) **at the beginning of each semester**. Accommodations are not retroactive, therefore, students should contact the DRC at the beginning of each semester in the term for which they are seeking accommodations. The DRC may be contacted at 352-392-8565 so that appropriate accommodations may be made.  **Individual accommodations require time for the Disability Resources Center (DRC) to approve and the faculty to respond to any special learning needs**.  **Each semester**, it is the students’ responsibility to notify all their faculty of any special accommodations **once approval by the DRC for special accommodations has been made**.  <https://drc.dso.ufl.edu/>

# REQUIRED TEXTBOOK

McCance, K. & Huether, S. (2018). *Pathophysiology: The Biologic Basis for Disease in Adults and Children (8th ed.)*. St. Louis, Missouri: Elsevier.

RECOMMENDED TEXTBOOKS/WEBSITES

1. Publication Manual of the American Psychological Association, (6th edition)
2. <https://owl.english.purdue.edu/owl/resource/560/08/>

WEEKLY CLASS SCHEDULE

|  |  |  |
| --- | --- | --- |
| **DATE** | **TOPIC/EVALUATION** | **READINGS** |
| **Week 01**  January 7-13 | Fluids, Electrolytes, Acids & Bases  Genes, Environment-Lifestyle & Common Disease  Syllabus Quiz: Due Jan 11, by 11:59pm | Chapter 3, 5 |
| **Week 02**  January 14-20 | Mechanisms of Self-Defense  Quiz 01: Due January 18, by 11:59pm | Unit III – Chapters 7-11 |
| **Week 03**  January 22-27  Holiday 1/21 | Cellular Proliferation: Cancer  MiniPaper 1: Due January 25, by 11:59pm | Unit IV: Chapters 12-14 |
| **Week 04**  January 28 - February 3 | Pathophysiologic Alterations: Organs & Systems  Quiz 02: Due February 1, by 11:59pm | Unit V: Chapters 15-20 |
| **Week 05**  February 4-10 | The Endocrine System  LEAD Paper 1 due by Feb 8, by 11:59pm | Unit VI: Chapters 21-23 |
| **Week 06**  February 11-17 | The Reproductive System  Quiz 03: Due February 15, by 11:59pm | Unit VII: Chapters 24-27 |
| **Week 07**  February 18-24 | The Hematologic System  Quiz 04: Due February 22, by 11:59pm | Unit VIII: Chapters 28-31 |
| **Week 08**  February 25 - March 1 | Midterm Exam: First Half of Semester  Midterm: Due February 27, by 11:59pm  Test dates/times: February 26, 8 am – February 27, 10pm | |
| **Week 09**  March 2-10 | Spring Break | |
| **Week 10**  March 11-17 | The Cardiovascular & Lymphatic Systems  Minipaper 2: Due March 15, by 11:59pm | Unit IX: Chapters 32-34 |
| **Week 11**  March 18-24 | The Pulmonary System  Quiz 05: Due March 22, by 11:59pm | Unit X: Chapters 35-37 |
| **Week 12**  March 25-31 | The Renal & Urologic Systems  LEAD Paper 2 due March 29 11:59pm | Unit XI: Chapters 38-40 |
| **Week 13**  April 1-7 | The Digestive System  Quiz 06: Due April 5, by 11:59pm | Unit XII: Chapters 41-43 |
| **Week 14**  April 8-14 | The Musculoskeletal System  Quiz 07: Due April 12, by 11:59pm | Unit XIII: Chapters 44-46 |
| **Week 15**  April 15-21 | The Integumentary System  Multiple Interacting Systems  Quiz 08: Due April 19, by 11:59pm | Unit XIV: Chapters 47-48  Unit XV: Chapters 49-50 |
| **Week 16**  April 22-24 | Review Week | |
| Reading Days: April 25-26 | | |
| **Week 17**  Finals:  April 27 – May 3 | Final Exam: Second Half of Semester  Final Exam: Due April 30, by 11:59pm  Test dates/times: April 29, 8 am – April 30, 10pm | |

Approved: Academic Affairs Committee: 06/96; 04/01

Faculty: 08/96; 05/01

UF Curriculum: 10/96; 05/99