UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Spring 2017

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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OFFICE HOURS: by appointment

# 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 October 17, 18, 2017, 0900-2300 using Proctor U

Final Exam December 12,13, 2017, 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 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 study review, discussions online, mini-papers, quizzes based on discussion board case studies, midterm and final exams

EVALUATION METHODS/COURSE GRADE CALCULATION

**Evaluation will be based upon the following 5 areas:**

|  |  |
| --- | --- |
|  | Percentage of Grade |
| 1. Midterm Exam | 20% |
| 2. Final Exam | 24% |
| 3. Mini Papers (8 papers) | 25% |
| 4. Discussion Board Case Study Presentations and Leadership of discussions | 10% |
| 6. Quizzes (8 total) | 20% |
| 7.Syllabus Quiz | 1% |
| Total: | 100% |
| **Extra Credit** **Quiz will be made available if there is 90% participation in the final course evaluation by Dec 6** | 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 Modules 1-4.  
Exam dates: October 17, 18, 2017, 0900-2300 using Proctor U

**2. Final Exam**

All questions will be based on textbook and discussion questions from Modules 5-8.  
Exam dates: December 12,13, 2017, 0900-2300 using Proctor U

**3. Mini-papers (8 papers)**

These papers should be based on articles no older than 5 years related to 8 selected (your choice) Case Study Topics and should not be based on discussion board cases. See class schedule to review assigned chapters and associated case studies/week

You must do 8 mini-papers this semester. The papers are worth 25% of your grade. Please see rubric regarding expectations for this paper and how papers will be graded.

**4. Weekly Discussion Board Participation**

Students will be assigned in groups of 2 to complete two case studies during this semester posting the case study and associated questions with answers on the discussion board 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 Thursday of the first week of the unit. Don’t procrastinate!

1. **Discussion Board Participation**

You are encouraged to participate in the discussion board, asking questions of your lead peer about the case study

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.

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. If your minipaper is up to 24 hours late -30% will be deducted; up to 48 hours late – 60% will be deducted; up to 72 hours late – 90% will be deducted. Papers submitted more than 72 hours late will receive no 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 <http://www.dso.ufl.edu/students.php>. 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 a full explanation of each of the following policies - <http://nursing.ufl.edu/students/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 TEXTBOOK

Kumar, V., Abbas, A., & Aster, J. (2015). *Robbins & Cotran Pathologic Basis of Disease 9th ed.,* Philadelphia, PA: Elsevier/Saunders

Purchase of this textbook provides you with a PIN code in the front cover of the book. This PIN code provides you access to the online resources including the case studies.

1. Login or sign up at: <http://www.studentconsult.com/>
2. Scratch off the PIN code in book front cover
3. Enter PIN into the “Redeem a Book Code” box
4. Click “Redeem”
5. Go to “My Library”
6. Explore the resources
   1. Click on “Pathology Case Studies”
   2. Click on: “Click Here to View Case Studies” and find the case studies listed by topic

WEEKLY CLASS SCHEDULE

|  |  |  |  |
| --- | --- | --- | --- |
| **Unit** | **Dates** | **Topic** | **Assignments/Readings** |
| **Module 1** | 8/21  To  9/1 | * Get oriented/organized/started in the course * Cellular Adaptations/Injury/Death Inflammation, Tissue Repair | * Chapters 1, 2, 3 |
| **Module 2** | 9/5  To  9/15 | * Hemodynamic Disorders, Genetic Disorders, Neoplasia, Disease of Immunity, Infectious Disease | * Chapters 4, 5, 6, 7, 8 |
| **Module 3** | 9/18  To  9/29 | * Environmental/Nutritional Pathology, Diseases of Infancy & Childhood, Blood Vessels and Heart, The Skin | * Chapters 9, 10, 11, 12, 25 |
| **Module 4** | 10/2  To  10/13 | * The Breast, the Endocrine System | * Chapters 23,24 |
| **Midterm**  **Exam** | 10/17  And  10/18 | * Midterm exam is available on Proctor U both 10/17 and 10/18. The exam is available between 0900 – 2300 on both days | * Midterm covers Modules 1-4 |
| **Module 5** | 10/16  To  10/27 | * Blood Cells, Bleeding Disorders, Lymph Nodes, Spleen, Thymus, Lungs, Head & Neck | * Chapters 13, 14, 15, 16 |
| **Module 6** | 10/30  To  11/10 | * The GI Tract, the Liver, Biliary Tract, and the Pancreas, | * Chapters 17, 18, 19 |
| **Module 7** | 11/13  To  11/21 | * The Kidney, Lower Urinary Tract, Male and Female Genital Tract | * Chapters 20, 21, 22 |
| **Module 8** | 11/27  To  12/8 | * The Bones, Joints, Muscles, Eyes, Nerves and CNS | * Chapters 26, 27, 28, 29 |
| **Final Exam** | 12/12  And  12/13 | * Final Exam is available on Proctor U both 12/12, and 12/13. The exam is available between 0900-2300 on both days. | * Final Exam covers Modules 5 - 8 |

Holidays: Labor Day Sept 4th, Homecoming Oct 6th, Veterans Day Nov 10th

Thanksgiving Nov 23-24th

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

Faculty: 08/96; 05/01

UF Curriculum: 10/96; 05/99