UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Spring 2020

COURSE NUMBER NGR 6140 Section 1H91

COURSE TITLE Physiology and Pathophysiology for Advanced Nursing Practice

CREDITS 4

PLACEMENT Variable

PREREQUISITES None

COREQUISITES None

FACULTY

Michael D. Bumbach, PhD, APRN, FNP-BC, MSN, RN

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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

Section Day

1H91 Web-based

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

Midterm Examination: Due Feb 27, by 11:59pm, using Proctor U

Final Examination: Due April 28, by 11:59pm, using ProctorU

This is a challenging and time-consuming course with a strong clinical focus. You will need to devote several hours per week to reading, studying, reviewing all course materials, and listening to the lectures. Please plan carefully to ensure that you can complete the course successfully.

This is a completely asynchronous course. There is no required class attendance. The course is offered in an online format. Date changes will be announced in advance. Your continued enrollment in this course acknowledges agreement with the schedule.

If you desire additional face to face time with the instructor, this can be arranged by emailing the professor. Office hours are posted and held weekly.

PLEASE NOTE: Students are expected to complete all assignments within the posted timeframe. If assignments are done early, answers and rationale will be reviewed after the completion date and time. 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

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.

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 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-papers, quizzes, and examinations.

EVALUATION METHODS/COURSE GRADE CALCULATION

Evaluation will be based upon the following areas:

|  |  |
| --- | --- |
|  | Percentage of Grade |
| Examinations (Midterm/Final @ 25% each) | 50% |
| Mini Paper (individual work) | 12.5% |
| Discussion Board Case Study Presentations (group assignment) | 12.5% |
| Quizzes (10 total @ 2.5% each) | 25% |
| Syllabus Quiz | 0.5% |
| 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: Due Feb 27, by 11:59pm, using Proctor U

Final Examination: Due April 28, by 11:59pm, 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/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 the University’s grading policies: http://gradcatalog.ufl.edu/content.php?catoid=4&navoid=907#grades

COURSE EVALUATION

Students are expected to provide feedback on the quality of instruction of this course by completing the online evaluations at https://evaluations.ufl.edu. [Guidelines](file:///C:\Users\kjonesschubart\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\KOKFRDY4\Guidelines) and expectations regarding professional feedback are available [online](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, [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) 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 ability to become a competent professional Nurse. Attitudes or behaviors inconsistent with compassionate care; refusal by, or an 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 they understand the UF Honor Code at: https://sccr.dso.ufl.edu/process/student-conduct-code/. Students are required to provide their own privacy screen for all examination 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

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.vitalsource.com/referral?term=9780323413206

RECOMMENDED TEXTBOOKS/WEBSITES

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

WEEKLY CLASS SSCHEDULE

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| --- | --- | --- |
| **DATE** | **TOPIC/EVALUATION** | **READINGS** |
| **Week 01**  January 6-11 | Fluids, Electrolytes, Acids & Bases  Genes, Environment-Lifestyle & Common Disease  Syllabus Quiz: Due Jan 10, by 11:59pm  **(\*Note: All Due Dates are on Friday of their respective week)** | Chapter 3, 5 |
| **Week 02**  January 13-18 | Mechanisms of Self-Defense  Quiz 01: Due Jan 17, by 11:59pm | Unit III – Chapters 7-11 |
| **Week 03**  January 21-25  Holiday 1/20 | Cellular Proliferation: Cancer  Quiz 02: Due Jan 24, by 11:59pm | Unit IV: Chapters 12-14 |
| **Week 04**  January 27-Febraury 1 | The Neurologic System  Quiz 03: Due Jan 31, by 11:59pm | Unit V: Chapters 15-20 |
| **Week 05**  February 3-8 | The Endocrine System  Mini-Paper: Due Feb 7, by 11:59pm | Unit VI: Chapters 21-23 |
| **Week 06**  February 10-15 | The Reproductive System  Quiz 04: Due Feb 14, by 11:59pm | Unit VII: Chapters 24-27 |
| **Week 07**  February 17-22 | The Hematologic System  Quiz 05: Due Feb 21, by 11:59pm | Unit VIII: Chapters 28-31 |
| **Week 08**  February 24-28 | Midterm Exam: First Half of Semester  Midterm: Due Feb 27, by 11:59pm  Test dates/times: Feb 26, 8 am – Feb 27, 9pm | |
| **Spring Break**  **February 29 – March 7** | | |
| **Week 9**  March 9-14 | The Cardiovascular & Lymphatic Systems  Quiz 06: Due March 13, by 11:59pm | Unit IX: Chapters 32-34 |
| **Week 10**  March 16-21 | The Pulmonary System  Quiz 07: Due March 20, by 11:59pm | Unit X: Chapters 35-37 |
| **Week 11**  March 23-28 | The Renal & Urologic Systems  Quiz 08: Due March 27, by 11:59pm | Unit XI: Chapters 38-40 |
| **Week 12**  March 30-April 4 | The Digestive System  Quiz 09: Due April 3, by 11:59pm | Unit XII: Chapters 41-43 |
| **Week 13**  April 6-10 | The Musculoskeletal System  Quiz 10: Due April 10, by 11:59pm | Unit XIII: Chapters 44-46 |
| **Week 14**  April 13-18 | The Integumentary System  Multiple Interacting Systems  Discussion Board Presentation: Due April 17, by 11:59pm | Unit XIV: Chapters 47-48  Unit XV: Chapters 49-50 |
| **Week 15**  April 20-22 | Review Week | |
| Reading Days: April 23-24 | | |
| **Week 16**  April 25-May 1 | Final Exam: Second Half of Semester  Final Exam: Due April 28, by 11:59pm  Test dates/times: April 27, 8 am – April 28, 9pm | |

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

Faculty: 08/96; 05/01

UF Curriculum: 10/96; 05/99