UNIVERSITY OF FLORIDA

COLLEGE OF NURSING

COURSE SYLLABUS

Fall 2019

COURSE NUMBER NGR 6140 Section 0295/28F8

COURSE TITLE Physiology and Pathophysiology for Advanced Nursing Practice

CREDITS 4

PLACEMENT Variable

PREREQUISITES None

COREQUISITES None

FACULTY

Michael D. Bumbach, PhD, FNP-BC, APRN, MSN (Section 28F8)

Clinical Assistant Professor

Office: HPNP 4201

Phone: 352.273.6638

Email: [mbumbach@ufl.edu](mailto:mbumbach@ufl.edu)

Office Hours: Monday 8:30am-10:30am

Kara Jones-Schubart, DNP, FNP-BC, APRN, RN (Section 0295)

Clinical Assistant Professor

Office: HPNP 2217

Phone: 352.273.6011

Email: [kjonesschubart@ufl.edu](mailto:kjonesschubart@ufl.edu)

Office Hours: Thursday 12pm – 2pm

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

0295 (Schubart) Web-based

28F8 (Bumbach) Web-based

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

Midterm Examination: October 9th, 0900 to October 10th, 2300, using Proctor U

Final Examination: December 9th, 0900 to December 10th, 2300, using ProctorU

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 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, 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) | 33% |
| Mini Papers (2 papers/individual) | 23% |
| Discussion Board Case Study Presentations (2 cases/group) | 23% |
| Quizzes (8 total) | 20% |
| Syllabus Quiz | 1% |
| 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. 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 of this course by completing the online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last weeks of the semester, but students will be given specific times when they are open. Summary results of these assessment are available to students at <https://evaluations.ufl.edu/results/>.

EVALUATION DETAILS

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

Midterm Examination: October 9th, 0900 to October 10th, 2300, using Proctor U

Final Examination: December 9th, 0900 to December 10th, 2300, using ProctorU

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 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 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/>.

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

DISABILITY STATEMENT

Students who wish to obtain individual accommodations due to special learning needs must register with the University of Florida, Disability Resource Center (DRC) at the beginning os 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. 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**  August 20-24 | Fluids, Electrolytes, Acids & Bases  Genes, Environment-Lifestyle & Common Disease  Syllabus Quiz: Due August 23, by 11:59pm | Chapter 3, 5 |
| **Week 02**  August 26-31 | Mechanisms of Self-Defense  Quiz 01: Due August 30, by 11:59pm | Unit III – Chapters 7-11 |
| **Week 03**  September 3-7  Holiday 9/2 | Cellular Proliferation: Cancer  Mini-Paper #1: Due September 6, by 11:59pm | Unit IV: Chapters 12-14 |
| **Week 04**  September 9-14 | Pathophysiologic Alterations: Organs & Systems  Quiz 02: Due September 13, by 11:59pm | Unit V: Chapters 15-20 |
| **Week 05**  September 16-21 | The Endocrine System  Discussion Board Presentation #1 Due September 20, by 11:59pm | Unit VI: Chapters 21-23 |
| **Week 06**  September 23-28 | The Reproductive System  Quiz 03: Due September 27, by 11:59pm | Unit VII: Chapters 24-27 |
| **Week 07**  September 30-October 3  Holiday 10/4-10/5 | The Hematologic System  Quiz 04: Due October 3\*, by 11:59pm  \*Note: This date is earlier than usual | Unit VIII: Chapters 28-31 |
| **Week 08**  October 7-12 | Midterm Exam: First Half of Semester  Midterm: Due October 10, by 11:59pm  Test dates/times: October 9, 8 am – October 10, 9pm | |
| **Week 9**  October 14-19 | The Cardiovascular & Lymphatic Systems  Quiz 05: Due October 18, by 11:59pm | Unit IX: Chapters 32-34 |
| **Week 10**  October 21-26 | The Pulmonary System  Quiz 06: Due October 25, by 11:59pm | Unit X: Chapters 35-37 |
| **Week 11**  October 28-November 2 | The Renal & Urologic Systems  Mini-Paper #2: Due November 1, by 11:59pm | Unit XI: Chapters 38-40 |
| **Week 12**  November 4-9 | The Digestive System  Quiz 07: Due November 8, by 11:59pm | Unit XII: Chapters 41-43 |
| **Week 13**  November 12-16  Holiday 11/11 | The Musculoskeletal System  Quiz 08: Due November 15, by 11:59pm | Unit XIII: Chapters 44-46 |
| **Week 14**  November 18-23 | The Integumentary System  Multiple Interacting Systems  Discussion Board Presentation #2 Due November 22, by 11:59pm | Unit XIV: Chapters 47-48  Unit XV: Chapters 49-50 |
| **Week 15-16**  November 25-December 4  Holiday 11/27-11/30 | Review Week | |
| Reading Days: December 5-6 | | |
| **Week 17**  December 7-13 | Final Exam: Second Half of Semester  Final Exam: Due December 10, by 11:59pm  Test dates/times: December 9, 8 am – December 10, 9pm | |

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

Faculty: 08/96; 05/01

UF Curriculum: 10/96; 05/99