

Delaware State University
Department of Nursing

Course Title: Pathophysiology and Pharmacology in Nursing
Course number: 28-204
Credits: 4
Class Time: Mon. & Wed. (Group 1, 2-4 PM) (Group 2, 4-6 PM)
Prerequisites: 28-206; Chemistry 107; Anatomy and Physiology I & II; 28-205; 28-211.

Faculty: Vivian Cebrick, MSN, RN, Price Bldg., Rm. 119B, Ext. 6795
Weekly office hours are posted outside of office.

Course Description: This course introduces the student to pathophysiology and disruptions in the normal body functioning in individuals across the lifespan. Objective and subjective manifestations of common health problems resulting from the environmental, genetic and stress related maladaptations are assessed and analyzed. Pharmacological management of selected disease processes are explored.

Course Objectives: By the end of this course students will be able to:

1. Apply principles of normal anatomy and physiology of human body systems to the pathophysiological processes of common health problems.
2. Identify concepts, principles, and responses related to pathophysiological processes that result in disease.
3. Discuss clinical manifestations of selected disease processes and health problems.
4. Identify appropriate pharmacological treatment of specific diseases using the nursing process.
5. Discuss the nurse's role and responsibility for assessment of individual's experiencing health problems that result in pathophysiological alterations.

Teaching Strategies: Lecture/Discussion
Computer Assignments
Website Activities
Group Activities

Evaluation Methods: 4 examinations @ 12% each = 48% of grade
4 quizzes @ 5 % each = 20% of grade
Journal & Case studies = 2% of grade
Midterm exam = 30% of grade

Total 100%

Grading Scale: 90-100 = A
80- 89 = B
74- 79 = C
60- 73 = D
0- 59 = F

Required Textbooks

Porth, C.M. (2004). Essentials of pathophysiology: concepts of altered health states. Philadelphia: Lippincott.

Lilley, L.L., Harrington, S. & Snyder, J. S. (2005). Pharmacology and the nursing process (4th ed.). St. Louis: C.V. Mosby.

Deglin, J.H. & Vallerand, A.H. (2003). Davis's drug guide for nurses (8th ed.). Philadelphia: F.A. Davis.

Recommended Textbook

Prezbindowski, K.S. Study guide for essentials of pathophysiology: concepts of altered health states. Philadelphia: Lippincott.

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Course Requirements and Policies

As stated in the Department of Nursing Student Handbook...”Students must attend classes with regularity and punctuality in order to meet the objectives of each course”. Therefore it is an expectation that students be punctual, attend all classes and related experiences, and are responsible for all content covered.

It is assumed that all prerequisite course objectives have been met. Students are expected to apply knowledge and skills learned from these previous courses when indicated and/or seek assistance when needed.

The Office of the Vice president for Academic Affairs issues excuses for students who are absent from classes while participating in official University related activities or on University related travel. In all other cases, only the instructor can approve a student request to be absent from class.

Nursing Course Policies:

1. Planned absence: notify faculty prior to the absence.
2. Unplanned absence: notify faculty within 24 hours of absence.
3. Missed exams: make-up exams may be given in essay format.
4. Misses quizzes: will not be made up.
5. Unexcused absence: zero for missed class assignments.
6. Late assignments: will have 2 points per day deducted from the grade for the assignment unless prior arrangements were made with faculty.
7. Appropriate behavior during class is required. Inappropriate behaviors will not be tolerated. Students participating in inappropriate behavior such as disruptive noise while class is in progress, disrespectful remarks to other students or faculty, use of profanity, will be asked to leave the classroom.

Participation in class discussion and group work is essential. It is intended that the entire class engage in critical listening, critical reading and critical thinking.

1. Each student is to use a spiral bound notebook for weekly documentation of class participation.
2. Write a brief summary of what was covered in class.
3. In the “journal” record any questions that may occur to you during class discussions and document the discussion. If you decide not to ask the question in class and investigate it yourself, what you found should be documented in your journal.
4. Case studies will be completed for each system discussed. Include a completed copy of this assignment with your journal. Journals will be turned in to a designated area in the nursing office on Monday prior to the beginning of class.

Policy on Academic Dishonesty

Academic dishonesty will not be tolerated in the Department of Nursing.

The following policies will be applied by nursing faculty to students found engaging in academic dishonesty.

1. The first time documentation of academic dishonesty will result in a grade of zero for the assignment and made part of the student's record.
2. A second documentation of academic dishonesty (in the same course or ins subsequent course) will result in a failing grade for the course and a recommendation for expulsion from the University.

Additionally:

3. A student who assists in academic dishonesty will be considered equally subject to discipline as a student who accepts such assistance.
4. A student who is aware of academic dishonesty but fails to report it to faculty will be equally subject to disciplinary action as the student who actually participates in academic dishonesty.
5. Documentation related to evidence of academic dishonesty will become a part of the permanent student record.

Forms of Academic Dishonesty:

There are four major forms of academic dishonesty addressed by nursing faculty at Delaware State University.

1. Plagiarism-a writer presents the work of another as if it were his/her own work. Each time a source is paraphrased, a credit for the source must be included in the text of the paper.
2. Cheating-a student engages in an act of deception whenever he/she seeks to misrepresent mastery of information on an academic exercise that has not been mastered.
3. Fabrication-a student falsifies research or invents information with the intent to deceive.
4. Academic misconduct-there is a violation of University policies, tampering with grades or distribution of any part of an unadministered test.

To encourage students to make decisions to behave in an ethical, honest manner, faculty will encourage students to seek assistance when needed. When students cannot meet deadlines for course requirements, faculty will explore options with students to enable them to meet course requirements if there are documented reasons.

To assist in student recognition of these policies, course coordinators and faculty will review the policy on academic dishonesty on the first day of class. Students will sign the academic dishonesty form which verifies that they have read the policy.

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Spring 2006

Lecture Outline

Date	Content	Reading Assignment
1/18/06	Introduction to course Introduction to Pathophysiology Introduction to disease, disease process. Tissue Adaptation and Injury Genetic and Congenital Disorders	Handout Porth Review on your own: Ch. 1- Key concepts and summaries. Read: Ch. 2, pp. 24-34 Ch. 4, pp. 50- 62
1/23/06	Alterations in cell growth: Neoplasia Alterations in fluid, electrolytes and acid-base balance.	Porth Ch. 5, pp 64-83 Review on your own: Ch. 6, pp. 84-94; 108-112 Read: Ch. 6, pp. 94-108; 112-118
1/25/06 Quiz 1	The Immune System Inflammation, tissue repair and fever Alterations in the immune response	Porth Review on your own: Ch. 8- Key concepts and summaries Read: Ch. 9, pp. 150-166 Ch. 10, pp.168-174; 175-189.
1/30/06 Exam 1	Alterations in white blood cells Alterations in homeostasis and blood coagulation Alterations in red blood cells	Porth Review on your own: Ch. 11, pp. 191-194 Ch. 12, pp. 205-210 Ch. 13, pp. 216-220. Read: Ch.11, pp. 194-203 Ch.12, pp. 210-214 Ch.13, pp. 220-230

Date	Content	Reading Assignment
2/1/06 Quiz 2	Alterations in the cardiovascular system Alterations in blood flow Alterations in blood pressure	Review on your own Ch. 14, pp. 231-252 Read: Ch. 15, pp. 254-272 Ch. 16, pp. 274-289
2/6/06	Alterations in cardiac function Heart failure and circulatory shock	Porth Ch. 17, pp. 291-311 Ch. 18, pp. 320-337
2/8/06 Exam 2	Alterations in the respiratory system Infectious disorders and neoplasia Disorders of gas exchange	Review on your own: Ch. 19, pp. 339-358 Read: Ch. 20, pp. 359-368 Ch. 21, pp. 376-399
2/13/06 Quiz 3	Alterations in the urinary system Alterations in renal function Renal failure Alterations in urinary elimination	Review on your own: Ch. 22, pp. 401-414 Read: Ch. 23, pp. 415-431 Ch. 24, pp. 433-443 Ch. 25, pp. 446-457
2/15/06	Alterations in the GI system Alterations in GI function Alterations of the liver, gallbladder and pancreas	Review on your own: Ch. 26, pp. 459-471 Ch. 28, pp. 494-500 Read: Ch. 27, pp. 473-491 Ch. 28, pp. 500-515
2/20/06 Exam 3	Alterations in the endocrine system Alterations in pituitary, thyroid, parathyroid and adrenals. Diabetes mellitus	Review on your own: Ch. 30, pp. 529-537 Read: Ch. 31, pp. 538-558 Ch. 32, pp. 560-579
2/22/06 Quiz 4	Alterations in the nervous system Alterations in brain function Alterations in neuromuscular function	Review on your own: Ch. 36, pp. 637-665 Read: Ch. 37, pp. 668-683; 685-686; 688-693 Ch. 38, pp. 700-706; 710-712; 714-723.

Date	Content	Reading Assignment
<p>2//27/06 Exam 4</p>	<p>Alterations in the skeletal and integumentary systems Metabolic and rheumatoid disorders Alteration in skin</p>	<p>Review on your own: Ch. 41, pp. 779-788 Read: Ch. 42, pp. 790-801 Ch. 43, pp. 816-818; 820-824 827-830 Ch. 44 , pp. 839-856</p>
<p>3/1/06</p>	<p>Review for midterm exam Midterm exam @ 4 PM.</p>	

