

PATHOPHYSIOLOGY

NUR 300 Sections 730, 733, 734

4 Credits

Online

Summer 2009

Catalog Course Description: How disrupting normal structures and functions of the human body leads to disease processes from the cellular to the multi-system level. Critical examination of the mechanisms underlying signs and symptoms.

Course Objectives: At the end of this course, students will:

1. Based on prerequisite knowledge of normal structure and functioning of the human body, identify and describe abnormal physiological disorders in the human population.
2. Explain how disease affects and is manifested in the interrelated systems of the human organism.
3. Explain the physiological basis for signs, symptoms, and diagnostic test results associated with disorders affecting the human organism.
4. Explain operative compensatory mechanisms in selected disorders.
5. Describe current biological theories regarding the causes, mechanisms, and signs and symptoms of selected disorders.
6. Recognize societal implications of and ethical issues involved with prevention, diagnosis, and treatment of given disorders.
7. Explain how a given preventive strategy or treatment might block, alter, or reverse the course of selected disorders affecting the human organism.
8. Describe the interactions between genetic and environmental factors in the development of a given disorder.

Additional Course Objectives: Think critically about the human body.

My NUR300 Course Goals:

My grade goal for NUR300 is _____

In addition to earning a grade, I plan to _____

Prerequisites: (ANTR 350) and (PSL 310 or PSL 250)

Co-requisites: None

Professional Standards & Guidelines: The curriculum is guided by the following documents:

American Association of Colleges of Nursing (1998). *The essentials of baccalaureate education for professional nursing practice*. Washington, DC: Author.

American Nurses Association (2001). *Code of ethics for nurses with interpretive statements*. Washington, DC: Author ISBN 1-55810-176-4

American Nurses Association (2004). *Nursing: Scope and standards of practice*. Washington, DC: Author ISBN 1-55810-215-9

American Nurses Association (2003). *Nursing's social policy statement (2nd ed.)*. Washington, DC: Author ISBN 1-55810-214-0

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Office Hours: Available by appointment only (see Communication on page 4). Preferred meeting options are online with Adobe Connect (www.breeze.msu.edu) and face-to-face.

Instruction:

a. Required Texts:

Porth, C.M., & Matfin, G. (2009). *Pathophysiology: Concepts of Altered Health States* (8th ed.). Philadelphia, PA: Lippincott. Williams and Wilkins.

Porth, CM. (2009). *Study Guide to Accompany Pathophysiology: Concepts of Altered Health States* (8th ed.). Philadelphia, PA: Lippincott. Williams and Wilkins.

Optional Texts: None

b. Required Resources, References, Supplies:

ANGEL Help Line

1.800.500.1554 (24 hrs, 7 days/week)

517.355.2345 (24 hrs, 7 days/week)

www.angel.msu.edu

Always check with the ANGEL Help Line first!

Students need to purchase a **course pack** which includes the unit objectives and a student version of the PowerPoint slides printed 6 slides per page, double sided (usually less than \$20). Please note that the text images in the PowerPoint lectures are referenced for the 7th edition of the text. Most images are in the 8th edition but the Figure and page numbers will be different than in the printed course pack.

Because of the technical language of pathophysiology, students need to use a **medical dictionary**. You are expected to look up words that you do not know. You can access 2 medical dictionaries for no fee via the MSU Libraries Home Page. www.er.lib.msu.edu (E-resources STAT!REF or “medical dictionary” title search). See Taber’s Cyclopedia Medical Dictionary or Stedman’s Medical Dictionary. These are the dictionaries endorsed by the CON BSN curriculum and are also available for purchase at many bookstores.

The most reliable place to purchase NUR texts and course pack locally is in the medical bookstore in Fee Hall basement. Or, students may order the texts and the course pack online through Spartan Bookstore. www.spartanbook.com Click on “textbooks” and enter “NUR 300” for Summer 2009. The text and workbook prices are discounted slightly if purchased as a package rather than as separate pieces, but the package may not be available used.

Students need reliable, high-speed access (cable or DSL) to the **ANGEL course management system and Adobe Connect**. www.angel.msu.edu and www.breeze.msu.edu See ANGEL Help for recommended browsers. Students also need the following programs: **RealPlayer** to view the Neurologic Disorders video, **Macromedia Flash (also called Flash Player)** to view the narrated PowerPoint lectures (see Tech Tips folder on ANGEL) and animations, and a recent version of **Adobe Reader** to download and access PDF documents. All programs have free, downloadable versions available online. If you are unsure about your current computer capabilities, try to open one of each kind of file from ANGEL. If you do not have the right programs, you will usually be prompted to install them when you try to open a file. If you have problems accessing any files on ANGEL, call the ANGEL Help Line: 1.800.500.1544 or 517.355.2345 (24/7!). They can answer any ANGEL-related questions including walking you through the appropriate installations.

Additional course materials and handouts will be posted on ANGEL throughout the semester.

NUR 300 Materials Check List:

- ANGEL access (add the URL to your browser favorites) with cable or DSL connection
- ANGEL Help Line (add the phone # to your contact list)
- Porth Text & Study Guide – 8th editions
- Course Pack
- Medical Dictionary
- Real Player
- Flash Player
- Adobe Reader
- CON Technology Requirements. All NUR300 students need to be in compliance. Please note that meeting online with Adobe Connect requires a microphone and speaker. <http://nursing.msu.edu/downloads/CONComputerTechnologyRequirementsv4.pdf>
- Proctor for the cumulative final exam (details forth coming on ANGEL)

Grading:

Standard College of Nursing Grading Scale:

%	GRADE
94-100 %	4.0
89-93%	3.5
84-88%	3.0
79-83%	2.5
75-78%	2.0 (minimum passing grade)
70-74%	1.5
65-69%	1.0
<64%	0.0

Course Grades will not be rounded.

Additional information on the grade breakdown for quizzes, exams, final exam, and group/team/discussion exercises will be posted on ANGEL in the Course Info folder.

University & College Policies:

The College of Nursing expects that students will demonstrate professional behavior in all situations. Specific expectations for clinical and other professional venues can be found in the appropriate handbook. You are responsible for reviewing and acting in accordance with the policies and procedures found in the following sources, including the following topics: Professionalism, Academic Integrity, Accommodations for Students with Disabilities, Disruptive Behavior, Attendance, Compliance, and Progression.

- CON Student handbook <http://nursing.msu.edu/handbooks.asp>
- MSU Spartan Life Student Handbook and Resource Guide <http://www.vps.msu.edu/SpLife/index.htm>
- Information for Current Students—including Rights, Responsibilities and Regulations for Students <http://www.msu.edu/current/index.html>
- Academic Programs <http://www.reg.msu.edu/UCC/AcademicPrograms.asp>

PATHOPHYSIOLOGY**NUR 300 Sections 730, 733, 734****4 Credits****Online****Summer 2009****Learning Assessments and Grading:**

NUR300 in the summer is an asynchronous, online course that requires students to interact with the professor and other students online, to work as groups/teams online, to access course materials online, to complete online quizzes and exams, and to set up and take a proctored final exam. When taking an online course, it is critical to stick to a regular schedule. Lectures are usually posted before the dates noted on the course calendar and you can work through the content ahead of schedule. However, the quizzes and unit exams will only be open at specified times. Spacing out your work while not falling behind will be particularly important for online lectures. Listening to 2 lectures back-to-back will make your eyes, ears, and brain too tired to learn effectively. Making your own master calendar, with specific times and dates scheduled to work on this course, will help you stay on track. I will NOT send out reminders every time a quiz or exam is scheduled and I expect that each student takes responsibility to stay organized.

This online course uses the ANGEL course management system. www.angel.msu.edu Lectures are only available online through ANGEL. Students are expected to read corresponding topics in the text and to complete study guide assignments (also called the workbook which is not graded—see Course Calendar posted on ANGEL in Course Info). Narrated PowerPoint lectures (i.e. PowerPoint with voice-over) and audio-only mp3 files are available for each lecture. The Neurologic Disorders lecture is available as a movie and as an mp3 file. Most lectures are divided up into 2-3 parts to make the file sizes more manageable. See the Tech Tips folder under the Lessons Tab on ANGEL for extra help. The ANGEL course management system is also used for discussion topics, team/group learning exercises, quizzes, unit exams, handouts, announcements, student-student communication and student-professor communication. Quizzes and exams are scheduled as specified in the Course Calendar. There will be no exceptions made for the open quiz and exam times or for other due dates.

If you have problems accessing any files on ANGEL, call the ANGEL Help Line: 1.800.500.1544 or 517.355.2345 (24/7!) rather than contacting the instructors.

Students are responsible for checking the accuracy of grades posted in ANGEL (under Reports Tab). You should also **keep printed records** of each grade. As with all CON undergraduate courses, NUR 300 uses the *standard College of Nursing grading scale* and a student must earn $\geq 75\%$ (2.0) to receive credit towards the nursing major.

The grade breakdown for quizzes, exams, final exam, and discussion exercises will be posted on ANGEL in the Course Info folder under the Lessons tab.

Communication:

If you have questions about using ANGEL or experience any ANGEL-related problems including technology problems during a quiz or exam call the ANGEL Help Line immediately: 1.800.500.1544 or 517.355.2345 (24/7!). You can also access ANGEL Help online from www.angel.msu.edu. If you have problems during a quiz or exam, please send me an email in addition to calling the ANGEL Help Line immediately.

Questions about **content** and **course details** and **course assignments** should be posted on the appropriate ANGEL **discussion board**, NOT emailed to instructors. This helps minimize the number of times I have to e-respond to the same question and also enhances group learning.

Examples of appropriate **Content Discussion Board questions** are: “I understand that patients in diabetic ketoacidosis have a low pH due to..., but why do they have an increased respiratory rate? Does it have something to do with compensation? On page ...of Porth, it states...” Examples of appropriate **Course Logistic Discussion Board questions** are: “Our team is confused about the requirements for this week’s assignment. We’re wondering if we need to...” or “I took the first quiz but don’t see my grade recorded under the Reports tab. Is anybody else having the same problem? I called the Help Line and they weren’t sure why this was happening.” and “Dr. Freidhoff said the answers for the DM worksheet would be posted, but I don’t see them in the Endocrine folder. Can somebody tell me where they are?” Questions will be answered within about **24-48 hours, excluding weekends and holidays**. I encourage student responses to student questions. Please use the discussion board as a dialogue space! Please do not post questions about specific quiz or exam questions.

Guidelines for Content Discussion Board Posting:

First, *read the course text because you will most often be able to answer your own question*. Students need to become comfortable using dense scientific resources in order to develop habits as lifelong learners. This should be reflected in your posted question. *If the posting guidelines are not followed, the student will be asked to re-word the post.*

To get the most appropriate response to your content discussion board questions and to make it easy to go back and review old posts, please include:

1. the unit and objective # in the **subject**, if the question is based on an objective (e.g. CV I obj #6)
2. your **understanding** (e.g. I understand that an atherosclerotic plaque can break open and cause a thrombus to form which blocks blood flow.)
3. your **question** and *what you found in the text that helps you think about your question* (e.g. How does this relate to the sequelae? I’m confused by...in Porth on page...I’m thinking that if...)
4. a **new post for each question**; don’t ask multiple questions in one post
5. please post on the **appropriate board** (eg. course content discussion board, not course logistics)

Examples of inappropriate posts for the Content Discussion Boards are: “I don’t get how sickle cell disease causes hemolysis and I can’t find it in the book.” and “What does objective 5 mean?” and “Does anybody know what the professor is looking for in objective 23” and “I can’t figure out SIADH – help!” and “Where do we find out information about the final exam?”

Students are most often asked to re-word their posts because either they **fail to provide their current understanding** and/or they **fail to discuss the section in the course text** that they are using to try to answer their question (and/or they post Logistics questions on the Content boards). The first two components are essential because they demonstrate the student’s thought process and “brain work”. My role as an instructor is not to demonstrate how much *I* know but, rather, use what I know to help students develop *their own* thinking and learning skills to carry into clinical practice. After all, when a course ends, you take *your* brain with you, not the professor’s!

Each content discussion board will close at the same time an exam is scheduled to start. These boards will be reopened near the end of the semester for review as read-only.

Please contact the instructors via **email** with questions about **other course issues that are personal**. An example of appropriate email questions are: “I have a family tragedy and I just don’t know if I can finish the course. How do I get an incomplete and finish the course later?” or “I’m not achieving my course goal of ... Here’s what I’ve been doing to study and prepare:...What do you suggest?” or “I’m really confused about negative feedback loops. Could we schedule a time to meet on Adobe Connect? I’m available...” If **scheduling an appointment**, please include 3 times you are available to meet, how much time you anticipate needing, and how you would like to meet so we do not bounce 5 emails to schedule one appointment.

Please keep in mind that servers may be slow and email messages might not be received immediately. *If the instructor does not respond within 24-48 hours, please resend your message!* Email will be answered within about **24-48 hours of when they are received, excluding weekends and holidays**. Voice mail is NOT a reliable source of communication.

Course Announcements will be posted on ANGEL throughout the semester, NOT sent via email. It is the students’ responsibility to regularly check ANGEL for announcements and updates.

Course Policies:

Quizzes and Exams:

Students are expected to take all quizzes and exams (ie. assessments) online as scheduled. They can be found during their open times in the Quizzes folder or the Exams folder under the Lessons Tab. (Please see Course Calendar and for open dates and times.) Students have *one login* and a preset amount of time to take each assessment. Details on time to complete each and on the # of questions will be posted in the Quiz and Exam folder before you click to begin the assessment. Since the lowest of each quiz and exam score is dropped, students may NOT make up assessments for *any* reason. The Final Exam cannot be the dropped exam score; each student is required to sit for the Final Exam to pass the course. If a student is unable to take an online assessment for any reason (*including but not limited to technology problems/errors, family emergency, illness, travel*) the missed quiz or exam will count as the dropped score. If more than one quiz or exam is missed, a student will be given a score of zero for each additional missed quiz or exam. Students are strongly urged to plan ahead and to take all online assessments regardless of current circumstances. Students should take all assessments on a secure, high-speed web connection not in the student’s residence to avoid technology problems and to have an independent 3rd party present. If an assessment is disrupted due to campus-wide ANGEL or server problems, the open time will be extended. Please see Communications above for what to do in the event of ANGEL problems during an online quiz or assessment.

Think of the quizzes as learning tools, not just as assessment tools. You are encouraged to work together and to use notes and the text. Quiz and exam difficulty are similar but you may backtrack to questions on quizzes. Use the quizzes as a way to gauge your understanding of content. Preparing for a quiz as you would for an exam will help you know whether you are studying adequately and gaining an appropriate understanding prior to taking an exam.

I realize there will be temptation to rely on your notes and on the text during quizzes and exams. You will likely have some time to use such references during a quiz. However, the time is much more restricted for exams, and you will need to prepare thoroughly, as you would for any proctored exam. Students are expected to take exams individually. Additionally, you will not be able to backtrack to questions on exams and you will not get your score until the exam closes. Please keep in mind that the cumulative Final Exam is proctored. You will not have the benefit of resources beyond your own brain so relying on external resources for quizzes and exams will not give you an accurate assessment of your preparation.

Each quiz covers all topics listed on the course calendar since the previous exam, including the unit listed on the same day the quiz opens. Each exam covers all topics listed on the course calendar since the previous exam.

Assessments will not be reopened for student view after they have been submitted.

Cheating on quizzes and exams includes, but is not limited to, trying to print or copy questions. ANGEL is set up to block these actions and to track this kind of attempted student activity. ANGEL will tell the professor if printing or copying was attempted, which could result in the student failing the course.

Final Exam:

Each student is required to take the proctored Final Exam to pass the course; not taking the final will result in a course grade of 0.0. Students must show current photo ID to be admitted to the testing room. *Failure to show current photo ID may result in a 0.0 on the Final.* The Final Exam is cumulative, and the best way to prepare for a cumulative final is to stay focused and on-task throughout the semester. Look for connections among body systems and put full effort into group/team exercises. Prepare diligently for each quiz and exam with the mindset of taking each without using any references. As you create your study tools, you may want to label them with the corresponding unit and objective # (eg. RBCs review Obj 3). The Final Exam is closed book, closed notes. A focused Final Exam Objectives List will be posted on ANGEL near the end of the semester.

The rules and procedures for securing a proctor will be posted on ANGEL soon in the Course Info folder. Some students will take the Final Exam on campus. **All students must notify the identified staff person by the deadline with finalized plans for taking the proctored Final Exam. If rules and procedures are not followed, the student may receive a 0.0 on the Final Exam.** Details for the contact person and deadline will be posted in the Course Info folder on ANGEL soon.

Plagiarism & Academic Dishonesty:

Students are expected to read the information on ANGEL in the Course Info folder related to plagiarism and academic dishonesty. The excuse of “I didn’t know that what I was doing was plagiarism” will not be accepted and any student who plagiarizes, intentionally or unintentionally, will be penalized. Penalties for plagiarism range from a 0.0 on the plagiarized assignment to a 0.0 in the course. Additional information is also found on page 3 of the syllabus for University and College Policies related to Plagiarism and Academic Dishonesty.

Accommodations for Students with Disabilities:

Students with disabilities should contact the Resource Center for Persons with Disabilities to establish reasonable accommodations. For an appointment with a disability specialist, call 353-9642 (voice), 355-1293 (TTY), or visit MyProfile.rcpd.msu.edu.

Disruptive Behavior:

Please keep in mind your future as health care professionals, and treat our virtual classroom space as you would any other professional setting. This includes being mindful of your communication style, both verbal and written. If you have a question, chances are many other students have the same question and will be grateful if you ask it! Please use the discussion boards regularly for questions and be mindful of “netiquette”—basically, a set of social guidelines for cyber-interaction, the most important of which emphasize respecting the people behind the computers. *If you are feeling angry/frustrated/emotional while typing a communication, save the message and proof it later before sending/posting.* Please remember to follow the Discussion Board Guidelines discussed under the syllabus section on Communication.

Any online communication that is interpreted as being disrespectful, inappropriate, or inflammatory may be deleted from the course. The individual student will be asked to reword and repost the communication.

Attendance:

NUR300 in the summer is an asynchronous, online course. Attendance at specific class sessions is not required. Completing course assessments and discussion exercises as specified in the course calendar is required. Students are also expected to make their group work transparent and post their communications in ANGEL rather than use individual email listserves.

For additional help:

Students who are either failing (i.e. <2.0) *or who are not performing to their personal expectations* at any time during the semester should seek help from one or more of the following sources:

1. Dr. Freidhoff
2. CON Office of Student Support Services. 1.800.605.6424 or 517.353.4827
3. Fellow classmates