

PATHOPHYSIOLOGY

NUR 300

4 Credits

Section 001: Tuesday and Thursday 08:00am –09:50 am

Section 002: Tuesday and Thursday 10:20am-12:10pm

A219 Clinical Center

Fall 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 and how body systems affect one another.

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 (2008). *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: by appointment. For course related issues, those in Section 01 please work with Dr. Bay and those in Section 02 should work with Dr. Chang. For content related questions, please contact the faculty member teaching that content.

Instruction:

a. **Required Texts:**

Porth, CM. (2009). *Pathophysiology: Concepts of Altered Health States* (8th ed.). Philadelphia, PA: Lippincott. Williams and Wilkins. ISBN 0-7817-4988-3

Kipp, B. & Kirk, JoAnne. (2009). *Study Guide for Porth's Pathophysiology: Concepts of Altered Health States* (8th ed.). Philadelphia, PA: Lippincott Williams and Wilkins. ISBN 0-7817-5097-0

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 (ANGEL Help link in upper right corner)

Always check with the ANGEL Help Line first!

Students need reliable access to the **ANGEL course management system**. www.angel.msu.edu See ANGEL Help for recommended browsers. Students also need recent version of **Adobe Reader** to download and access PDF documents. If you have problems accessing any files on ANGEL, **always call the ANGEL Help Line**. They can answer any ANGEL-related questions.

Because of the technical language of pathophysiology, students will often 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 Cyclopedic 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.

Students may purchase a **course pack** (includes Topics List, unit objectives and printouts of PowerPoint slides 6 per page, double side) **OR download** the same course materials from ANGEL. Due to ink costs and time required, some students find it less helpful to print from ANGEL than to purchase a course pack. Other students prefer the flexibility of printing different numbers of slides per page. Due to copyright laws, a few images are missing from the course pack. Most are images from your text.

The most reliable place to purchase NUR texts 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 Fall 2009.

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

NUR 300 Materials Check List:

- Reliable ANGEL access (add the URL to your browser favorites)
- ANGEL Help Line (add the phone # to your contact list)
- Adobe Reader
- Porth Text
- Kipp Study Guide
- Medical Dictionary
- Course Pack (or same documents downloaded from ANGEL)

Grading:

Course Grading Scale: The standard College of Nursing grading scale will be utilized.

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

“Final Course Grades will not be rounded.”

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 001 and 002

4 Credits

Section 001: Tues, Thurs 8:10 – 9:50am

Section 002: Tues, Thurs 10:20 – 12:10pm

A219 Clinical Center

Fall 2009

Additional Course Content

Learning Assessments and Grading:

NUR300 mostly utilizes a large group lecture format with some small group in-class exercises. Students are expected to: 1) review workbook materials prior to class (not graded), 2) attend lecture, 3) participate in class discussions, and 4) read designated sections in the text (please see “Topics List” in the Course Info folder on ANGEL) The ANGEL course management system is also used for quizzes, handouts, announcements, student-student communication and student-professor communication. Eight quizzes will be scheduled to be completed by 11:55pm on specific Mondays (opens at 12:05 am) and will reflect content from the workbook and be included in the course grade (See Course calendar). Five exams are scheduled as specified in the Course Calendar. The final exam is comprehensive and will be scheduled according to University guidelines.

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 your quiz and exam grades. As with all CON 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.

Assessment Item	Approximate # of Questions*	Time to Complete	Weight (% of Course Grade)
7 of 8 Quizzes	10	15min	3.5 % each (20% total)
4 of 5 Exams	50-75	1hr 50min	15% each (60% total)
Final Exam	50-75	2hrs	20% & required

*The details of each exam including question # breakdown/unit will be announced in ANGEL the week before each exam. It is students’ responsibility to regularly check announcements.

How to calculate your grade in the course at any given time:

Note that it is the *college-wide undergraduate policy* to use the same grading scale and not to round course grades. Calculate your grade based on both the weighting as specified above and the % that's been available to earn so far.

$$(\text{quiz } 1\% \times .035) + (\text{quiz } 2\% \times .035) + \dots + (\text{exam } 1\% \times .15) + (\text{exam } 2\% \times .15) + \dots = \text{weighted } \%$$

Add all those up, divide by the total % that's been available so far (eg. 60% after 3 quizzes and 3 exams), and x100 to make it a %.

For example: Say weighted % = 50.137%
 $50.131 / 60 \times 100 = 83.5\% = 2.5$

The lowest quiz and exam scores (not FINAL) are dropped to give each student leeway for mistakes and for personal emergencies. We all have bad days! *However, you should assume that every quiz and exam score will count until the end of the course.* You never know when an emergency might come up or what content you will struggle with most.

How to calculate what you need to score on the final exam to earn a specific course grade:

$(\text{weighted}\%) + (\text{final exam}\% \times .2) = \text{course grade } \%$

First, calculate your weighted% (by adding each weighted quiz% and exam% as outlined above) *with the lowest quiz score and lowest exam score dropped.* Second, plug in the lowest % possible for the course grade. (e.g. 3.5 would be 89%)

Then, do a little algebra and **solve for final exam%**.

For example: $(\text{quiz } 1\% \times .035) + \dots (\text{exam } 1\% \times .15) + \dots = \text{weighted } \%$

Then, $(\text{weighted}\%) + (\text{final exam}\% \times .2) = 89\% = 3.5$

Communication:

If you have questions about ANGEL or experience any ANGEL-related problems including technology problems during a quiz 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 (ANGEL Help link in upper right corner). If you have technical problems during a quiz, please contact the ANGEL Help Line immediately. They will notify faculty of unusual circumstances.

Important!! All questions related to course content **MUST** be either asked in class or posted on ANGEL discussion boards as designated. Individual questions on content voiced to faculty during class cannot be answered due to the class size. Questions about **content** and **course details** should be posted on the appropriate ANGEL **discussion board**, **NOT** emailed to instructors. This reduces the likelihood of the same questions being asked by multiple persons 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: “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. Can somebody tell me where they are?” Questions will be answered within about **48 hours, excluding weekends and holidays**. If we are out of town, we will post this as an announcement in ANGEL. We encourage student responses to student questions. Please use the discussion board as a dialogue space! Please do not post questions about quiz questions while a quiz is open.

Guidelines for 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 health care professionals. This should be reflected in your posted question.

To get the most appropriate response to your content discussion board questions and to make it easy to go back and review old postings for final exam review, 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 *where you looked in the text for an answer* (e.g. How does this relate to the sequelae? I’m confused by...in Porth on page...)
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)
6. Questions for tested materials will be answered up to 24 hours before the exam.

Guidelines for discussion board posting must be followed or questions won’t be answered.

For Section 01 course related matters, please refer to Dr. Bay and for section 02, please refer to Dr. Chang via **email**. An example of appropriate an email questions is: “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?" If scheduling an appointment, please include 3 times you are available to meet with preference to office hours 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 48 hours, please resend your message!* Email will be answered within about **48 hours of when they are received, excluding weekends and holidays**. Voice mail is NOT a reliable source of communication.

Course Announcements will be made in class and some will be posted on ANGEL throughout the semester, NOT sent via email. It is the students' responsibility to regularly attend class and to check ANGEL for announcements and updates.

Course Policies:

There will be NO extra credits given for this course.

Quizzes:

Students are expected to take all quizzes online as scheduled. They can be found during their open times in the Quizzes folder under the Lessons Tab. (Please see Evaluation and Grading Scale for grading specifics and Course Calendar and for quiz dates and times.) Since the lowest quiz score is dropped, students may NOT make up quizzes for *any* reason. If a student is unable to take an online quiz for any reason (*including but not limited to technology problems/errors, family emergency, and illness*) the missed quiz will count as the dropped score. If more than one quiz is missed, a student will be given a score of zero for each additional missed quiz. Students are strongly urged to plan ahead and to take all quizzes regardless of current circumstances. Students should take all quizzes on a secure, high-speed web connection on campus to avoid technology problems. If a quiz 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 a quiz.

Think of the quizzes as learning tools, not just as assessment tools. The quizzes are used to familiarize you with course content for the following week. We strongly encourage you to read the book and workbook before the quiz. Most quiz questions will come from the study guide. They will NOT resemble the exam questions and should be completed individually.

All required quizzes will be opened for about 24 hours: Monday from 12:05am to 11:55pm then will be reopened with answers for about 24 hours the following Tuesday from 12:05am to 11:55pm for you to review. Please plan accordingly to take and review.

Exams (excluding Final Exam):

Students are expected to take all exams at scheduled times during class meetings. NO EXCEPTIONS. (Please see Evaluation and Grading Scale for grading specifics and Course Calendar and for exam dates and times.) Students must show current MSU Student ID to be admitted to the classroom for the exams. **Failure to show current MSU Student ID may result in a 0.0 on the exam, since you will NOT be admitted to the testing classroom.** Additional exam policies and procedures are posted on ANGEL. All exams are closed book, closed notes. Students need to arrive sufficiently early to allow for check in. Any student NOT checked in by the start time will need to wait until exams are passed out. Students arriving late will have the remaining time to complete the exam. Since the lowest exam score is dropped, students CANNOT make up exams for *any* reason. If a student is unable to take an exam for any reason (*including but not limited to family emergency or illness*), the missed exam will count as the dropped score. If more than one exam is missed, a student will be given a score of zero for each additional missed exam. Students are strongly urged to take all exams regardless of current circumstances. **Any breach of course, college or university policy may result in an exam and/or course grade penalty up to a 0.0 in the course.**

See Course Calendar for topics related to the specific exams. (e.g. Exam 2 includes WBC Disorders, Pain, Inflammation & Healing, Immune Disorders, Cardiovascular Disorders I and Cardiovascular Disorders II.)

Individual exam review will NOT be allowed until designated times and weeks at the end of the semester. When we hold exam review sessions, the same testing procedures, posted in the syllabus about exams, will be applied. Only when MSU student ID is confirmed, will all 5 exams be temporarily given to the individual for their review. It is advised that students bring their score sheets to the exam review session to better assess their learning needs. No

writing or group discussion will be allowed for that review. Failure to follow these instructions for exam review could result in a grade of “0” for the course.

Final Exam:

All students are required to take the Final Exam as scheduled to pass the course. Students must show current **MSU Student ID** to be admitted to the testing room. *Failure to show current MSU Student ID may result in a 0.0 on the Final.* Students need to arrive sufficiently early to allow for check in. (about 30 minutes early) Any student not checked in by the start time will need to wait until exams are passed out. Students arriving late will have the remaining time to complete the exam. All exam policies apply to the final exam.

According to University policy, the only students able to schedule an alternative final are those who have 3 finals scheduled on the same day (NUR300 and two others), or 2 finals with overlapping times—both very rare circumstances. Students must supply documentation by October 22, 2009. Documentation includes: syllabus from the conflicting course, course schedule from StuInfo, and dates/times of all other final exams. Students with documented conflicts will take the NUR300 final on an alternative date and time determined by the course coordinators.

Link to MSU’s Academic Calendar through Office of the Registrar:
<http://www.reg.msu.edu/ROInfo/Calendar/Academic20082009.asp>

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. As you create your study tools, you may want to label them with the corresponding objective #. The Final Exam is closed book, closed notes. A FINAL EXAM review guide will be posted on ANGEL near the end of the semester.

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 and physical classroom space as you would any other professional setting. This includes being mindful of your communication style, both verbal and written. Asking content-related questions during lecture is highly encouraged. 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 board 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. Please remember to follow the Discussion Board Guidelines discussed under the syllabus section on Communication.

Disruptive in-class behavior, as interpreted by the instructor or by other students, will not be tolerated. This includes but is not limited to coming to class late or leaving class early, working crossword puzzles, reading the newspaper, sleeping, talking to other students, and using a cell phone. Disruptive students will definitely be called out and may be asked to leave the classroom. If you have a question, please raise your hand and ask rather than chat with a nearby student so we can all benefit from your curiosity!

Attendance:

Attendance in NUR 300 is expected. For all future NUR courses, if you are admitted to one of the BSN programs, attendance is required and part of the course grade. Students whose names do not appear on the official class list for this course cannot attend this class. For additional information, please see the University attendance policy and the Attendance Policy, Excused Absences and Make-up Work on the Ombudsman's Web site. This site includes discussion of student observance of major religious holidays, student-athlete participation in athletic competition, student participation in university-approved field trips, medical excuses and a dean's drop for students who fail to attend class sessions at the beginning of the semester.

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. Drs. Bay (Section 01) or Chang (Section 02)
2. CON Office of Student Support Services. 1.800.605.6424 or 517.353.4827
3. Jessica DeForest, MSU Learning Resources Center 202 E. Bessey 517.355.2363. Jessica is particularly good at helping students with study skills and with test taking skills! Please let Drs. Bay or Chang know if you are meeting with her.

NUR 300: PATHOPHYSIOLOGY

Course Calendar Fall 2009

WEEK # & DAY	DATE/INSTRUTOR	TOPIC (Lecture, Quiz, Exam)	WORKBOOK ASSIGNMENTS
<p align="center">1 Thursday</p> <p><i>Make sure you are officially enrolled for the course by Sept 7/09 or MSU may charge you a \$50-100 late enrollment fee. It's worth double checking!</i></p>	<p>Sept 3 2009 Dr. Bay Dr. Chang</p>	<p>Orientation</p> <ul style="list-style-type: none"> • in class <p>Cellular Adaptation</p> <ul style="list-style-type: none"> • the first lecture <p>Also:</p> <ul style="list-style-type: none"> • become adept at navigating ANGEL & accessing files • take the practice quiz • carefully read the syllabus • put all your spring activities—including info from this course—on one master calendar <p>Since you have one login and 15 minutes for each quiz, you must login by 11:40 pm ANGEL time or your quiz will be cut short. Please keep this in mind for all quizzes.</p> <p>Quiz 1 will cover workbook assignments for <u>Neoplasia</u>, <u>Hematopoiesis & Hemostasis</u> lectures.</p> <p>Opens: 12:05 am Mon 9/14/2009 Closes: 11:55 pm Mon 9/14/2009</p>	<p>Ch5: A (omit 2 19 20); B; C 1 2 4 5 7; D 6; F 2 11 Quizzes will be based on the workbook.</p> <p>In addition to the study guide assignments, you will likely find it helpful to work through the <u>objectives</u> posted in each unit folder under the Lessons Tab on ANGEL. We suggest finishing the objectives for one lecture before continuing to the next. Each exam item can be traced back to at least one objective.</p> <p>For reading assignments, please follow the “Topics List” posted on ANGEL in the Course Info folder (also included in the course pack if purchased).</p>
<p align="center">2 Tuesday</p>	<p align="center">Sept 8 Dr. Chang</p>	<p>Neoplasia</p>	<p>Ch8: A 1-3 7 9-11 16 17 19 22 24 25; B; C1 (omit 3); C2 1 3 6 10, D; E 1 2 4 5 8 10; G 1-3 11-13</p>
<p align="center">2 Thursday</p>	<p align="center">Sept 10 Dr. Chang</p>	<p>Hematopoiesis & Hemostasis</p>	<p>Ch12: A 1 3 4 14 15; C 3-5 7 10; D; E 1; G 4 12 (only purpose of fibrinogen) Ch15: A 1 2 6-10 13-16 20 22; B2; C (omit 6); D; E 1-5 (4 has more detail in the answer than appropriate for NUR300 – note the antibody production); G 1 2 7 10-12 14 15</p> <p>Note Exam 1 comes up quickly so prep over the weekend!</p>

3 Tuesday	September 15 Dr. Bay	RBC Disorders	Ch12: A 6; E 2; G 2 13 Ch14: A (omit 6 14 20 22 23); B (caption should read "...recycled or the bilirubin as it is conjugated..."); C (omit 2 6); D (omit 3 6); F 1 3-7 8 10 12 13 (key is wrong: 1-a, 2-b, 3-c) 14
3 Thursday	September 17 Dr. Bay Dr. Chang	Exam 1 (see syllabus and ANGEL Course Info for details) Check in begins 30 minutes prior to exam time <i>Quiz 2 will cover workbook assignments for <u>WBC disorders, pain, Inflammation & Healing lectures.</u></i> Opens: 12:05 am Mon 9/21/2009 Closes: 11:55 pm Mon 9/21/2009	Exam 1 will cover contents from Weeks 1 to 3 (150 points).
4 Tuesday	September 22 Dr. Chang	WBC Disorders	Ch15: A 2 3 5-8 11-13 16-18 20-22 24 25 28; B (omit 3 7 10); C 1 2 4-6 (focus on cell type differences and s/sx similarities) 8; D 1; E 1 4 5 8 9 14 15
4 Thursday	September 24 Dr. Chang	Pain Inflammation & Healing <i>Quiz 3 will cover workbook assignments for <u>Immune Disorders & Cardiovascular Disorders I lectures.</u></i> Opens: 12:05 am Mon 9/28/2009 Closes: 11:55 pm Mon 9/28/2009	Ch49: A 6 14-16 24-27; B; D 1 3 (answer is detailed but serves as a good example of how we use knowledge of nml neuroanatomy and the physical exam to test neurological function) 5; F 1 (4-6) 2 (6); 7-9 Ch18: A 1-6 8 11 15 17 25 28-30; C 2-5; E 1 2; G 1 3 9 (answer is more detailed than appropriate for NUR300) 10
5 Tuesday	September 29 <i>2/6: last day to drop & get a tuition refund!</i> Dr. Chang	Immune Disorders	Ch12: G 1 Ch17: A 1-8 11 12 16 20-23 25 26; C 2 (omit 1 3 8); D 1 3 5 (don't worry about type I vs II) 6; F 3 7 9-11 12 (1 3); 14 15 Ch19: A 1-5 8 11-13 33 35-37; E 2; G 1 6 11 Ch20: 1 2 (part of answer missing = CD4+ helper) 3-5 9-11; C; D 1-3 5 (new research done in Africa suggests an exception to breastfeeding – discussed in class); F 1 3 4 7 12 (new research done in Africa suggests an exception to breastfeeding – discussed in class) Ch24: G15
5 Thursday	October 1 Dr. Bay	Cardiovascular Disorders I	Ch21 (normal CV phys & anatomy chapter that applies to CV I-III): A1-8 10 12 15 18-24 29 30 32 36 37; B; C; D 1 3-5 (not all parts of the answer are covered in NUR300); F 8-10 Ch22: 1-6 8 12 14-16 (answer could also be "atherosclerosis") 20-23 28 31

			32 34 36; B; D 4 6; G 4 6 Ch61: A 29; B 2 (5); E 12 (all on pressure ulcers) <i>Note Exam 2 comes up quickly so prep over the weekend!</i>
6 Tuesday	10/6/2009 Dr. Bay	Cardiovascular Disorders II	Ch23: A 1 4-6 8-10 12 15-17 19 20 22 24 25; B; C 2-5 7 9; D (also challenge yourself to include the organs/glands involved); E 1 3; F (the entire question is a bit too clinically advanced but much is relevant to NUR300 and pushes you to think critically and apply NUR300 content to a very common problem); G 8 (answer “a.” should read “decreased baroreceptor sensitivity) 10 Ch24: A 1 7-9 12-14 18 25 26 37; C 1 (1 3 7 8); D 1 (omit Variant angina & Q-wave AMI); E 2-6; F 1; G 4 7 8
6 Thursday	10/8/2009 Dr. Bay Dr. Chang	Exam 2 Check in begins 30 minutes prior to class meeting <i>Quiz 4 will cover workbook assignments for <u>Cardiovascular Disorders III & Respiratory Disorders I</u> lectures.</i> Opens: 12:05 am Mon 10/12/2009 Closes: 11:55 pm Mon 10/12/2009	Exam 2 will cover contents from Weeks 4 to 6 (150 points).
7 Tuesday	10/13/2009 Dr. Bay	Cardiovascular Disorders III <i>FYI: The content for Exam 3 is where students struggle most. This will be a hard 4 weeks so stay focused and don't fall behind!</i>	(Normal phys & anatomy review chapter is listed with CV I) Ch26: A 3-13 15-22 24 26-29 34-37; B 1 (109) 2 (4, 6-8) 3 (omit 2); C; D (omit 1; for 5 also distinguish right- from left-sided symptoms); F 3 (error in answer, e is not correct)
7 Thursday	10/15/2009 Dr. Bay	Respiratory Disorders I <i>(Work hard on Resp I this weekend. We'll be applying many of the concepts for Resp II.)</i> <i>Quiz 5 will cover workbook assignments for <u>Fluid & Electrolyte Disorders I</u> lecture.</i> Opens: 12:05 am Mon 10/19/2009 Closes: 11:55 pm Mon 10/19/2009	(Content is mixed between Resp I and II. Study guide questions for both are listed here.) Ch26: B 2 (1-3)on s/sx and results of pulmonary disease or injury Ch27: A 1-3 5 10 11 13-17 19 20 (“each <i>resting</i> breath”) 23 26 28-30 36 37; B; C 1-3 5-7; D; E (omit 4); G 5 7 9 Ch28: A 12 14 15; C 2 7 (review from Neoplasia) 8; E 4 5 (answer is more detailed than appropriate for NUR300 but basics are highly relevant) 10 (answer indicates that type II pneumocytes <i>begin</i> to mature at 25-28 weeks gestation but we emphasized that it wasn't until about 36 weeks gestation that sufficient surfactant is made to support independent respiration); G 6 (hint: relates to immune dysfunction) Ch29: A 1-5 7-13 15-17 19 26-29; C 1 (1 3 6 8 9 – answer listed for emphysema is wrong) 2; E 1 7 (hint: consider why the lungs become stiff, wet, and collapsed with increased pulmonary vascular pressures); G 2 6 14
8	10/20/2009	Respiratory Disorders II	(See exercises listed above with Resp I.)

Tuesday	(Midterm week) Dr. Bay		
8 Thursday	October 22, 2009 Dr. Bay <i>Documentation due for final excam conflicts. See syllabus: Course Policies.</i>	Fluid & Electrolyte Disorders I	Ch12: G 12 (only purpose of albumin) Ch21: A 35 (on fluid pressures) Ch30: C (and add glands/organs involved); D 3 6 Ch31: A (omit 4 9 10 16 20 23 30 31 43-45); B; C 1 (omit 6 8) 2 (omit 8 9); D; E (omit 5 7); G 1 3 7 8 Note Exam 3 comes up quickly so prep over the weekend!
9 Tuesday	Oct 27, 2009 Dr. Bay	Finish: Fluid & Electrolytes Complete: Acid Base Disorders	Ch30: A 24 Ch32: A1-3 12 15-21 24-29 31; C 2 7 8 9; D 3-7; E (anion gap should be ordered, too – be able to explain why); F 2 3 5 7 8 10 (imprecise wording of the question; remember that respiratory rate does not necessarily determine ventilation – see Resp I Ventilation vs the “Pneas” from lecture)
9 Thursday	Oct 29, 2009 Dr. Bay Dr. Chang	Exam 3 Check in begins 30 minutes prior to class session Quiz 6 will cover workbook assignments for <u>Urinary & Renal Disorders & Gastrointestinal Disorders I</u> lectures. Opens 12:05 am Mon 11/2/2009 Closes: 11:55 pm Mon 11/2/2009	Exam 3 will cover contents from Weeks 7 to 9 (150 points).
10 Tuesday	Nov 3, 2009 Dr. Bay	Urinary & Renal Disorders	Ch14: F 9 (on renal failure and anemia) Ch30: A 1 3 6-9 11 14 16 19-22 25-27 29 30; B 5; C (and add organs/glands involved); D 5; F 6 9 Ch33: A 10 17-20 22 23 36; B; C 3 6 8 9; E 1 (focus on connection between stasis and infection) 3 4 8; G 3 5 6 9 Ch34: A (omit 11 15 18 19); B; C 2-9; D 1 4 (also relates to course concepts of compensation and organ reserve) 5-7; F 1-4 Ch35: A 1 3 4 13 14; C 1 2 5 (we do not cover specific disorders from this chapter but these few study guide questions help you practice some renal vocab and basic concepts that you should know)
10 Thursday	Nov 5, 2009 Dr. Chang	Gastrointestinal Disorders I Quiz 7 will cover workbook assignments for <u>Gastrointestinal Disorders II & Endocrine</u>	Ch36: A 1 3-6 (wrong answer in answer key – see text Fig 36-14, 38-1 and course notes) 7 9 15-18 25 27-29 32-34; B 1 (know major layers – mucosa, submucosa, muscularis, serosa – not the minor subdivisions – mesothelium, connective tissue); D 1 (also remember segments primarily responsible for fat absorption and fluid regulation); F 1-3

		<i>Disorders lectures.</i> Opens 12:05 am Mon 11/9/2009 Closes: 11:55 pm Mon 11/9/2009	Ch37: A 1 5 7 10 12 16-18 23-26 28 30 31 33 35-37 40 41 43; B 1 (4-6 9) 2 (1 4 6 7); C 1 3 6; E 11 (Please correct the question to read: “Diverticul osis is the...Diverticul osis is often asymptomatic. When symptoms occur in diverticul itis , what is the patient’s most common complaint?”)
11 Tuesday	11/10/2009 Dr. Chang	Gastrointestinal Disorders II	Ch14: F 2 (on bilirubin) Ch24: A 24 (on alcohol metabolism) Ch38: A 1-5 8 (& glycogen); 12 13 19 25-28 31 33 36-39; B; C 1 (2 3 5 7 - 9); D 1 2 (don’t just copy from the text – test your brain!); E 1 3 4 6-9 (focus on normal anatomy, portal HTN & fluid pressures) 10 (& connect to portal HTN and cirrhosis); G 3 10 11 (note: this Q is an FYI – does not relate to course objectives but serves as another smoking-pathophys example)
11 Thursday	11/12/2009 Dr. Bay	Endocrine Disorders <i>Prepare for Exam 4 over the weekend so you just have DM left!</i>	Ch40: A 1 5-7 9 10; C (and be able to draw the feedback loops specific to the thyroid and the adrenal cortex); D 5 (for NUR300: TSH, ACTH for now – LH and FSH later) 6; F 1 6 Ch41: 1-3 13 14 16-26 (“...by autoimmune destruction...” note that Addison’s is only 1 cause of primary adrenal cortical insufficiency) C 4 6; D 1 (ie. 1° vs 2°) 5 (more intracellular detail than is appropriate for NUR300) 7 8; E; F 6 8 9 12 (mistake in key but description is correct) 13 <i>Note Exam 4 comes up quickly so prep over the weekend!</i>
12 Tuesday	11/17/2009 Dr. Chang	Diabetes Mellitus	Ch32: A 22 (on metabolism); E (on acute complications – for 2 calculating anion gap from an electrolyte panel would be helpful, too!) Ch42: A (omit 7 10 11 14 25 30); B 3 6 7 10 11; C; D 1 2 (more intracellular detail than appropriate for NUR300) 3 4 (note that this is a special subtype of type 1 DM, much is idiopathic) 5 9 12 13 (don’t worry about sorbitol pathway); E 1 (but your language when talking with patients should be non-technical) 2 (remember, treating a disease ≠ curing the disease); F 1-5 8 10-15 17 18
12 Thursday	11/19/2009 Dr. Bay Dr. Chang	Exam 4 Check in begins 30 minutes to class session	Exam 4 will cover contents from Weeks 10 to 12 (150 points).
13 Tuesday	11/24/2009 Dr. Chang	Male Genitourinary Disorders STIs	Ch43: A 1 4 5 6-8; B 1 (omit ampulla, spongy urethra, membranous urethra); C 2 5 6 9 10; D 4; F 4 (corpus is singular; corpora is plural) 9 Ch44: A 1 4 5 7 8 (“...flow <i>out of</i> the...”) 10 15; C 3 5 8; D 1 2 (The enzyme mentioned also prevents breakdown of ____.) 3 (for NUR300, don’t need to discuss the two types) 5; F 6 Ch 44: F 7 Ch46: A 12

			Ch47: A 2-5 8 15; C 2 5; E 2
13 Thursday	12/1/2009 Dr. Chang	Female Reproductive Disorders Quiz 8 will cover workbook assignments for <u>Neurologic Disorders & Musculoskeletal Disorders</u> lectures. Opens: 12:05 am Mon 11/30/2009 Closes: 11:55 pm Mon 11/30/2009	Ch45: A 5 6 8-12 14 (emphasizes the link to female cancers in obese women – increase in unopposed estrogen) 16-19 21 23 25; B 1 2 (omit ligaments); C 2-4 8 9; D 3 (more detail than appropriate for NUR300) 5; E 1; F 4-7 (focus on FSH; effect on LH is positive feedback which we did not discuss) Ch46: A 13 16 19 24 30-32; C 1 (2 4 10) 2 (1 4-7); D 2 4 8 9; F 5 6
14 Tuesday	12/3/2009	Neurologic Disorders	Ch48: A 1 3 4 8 10-14 23-27 38 41 43 44; B 1 (omit 1A neuron) 2 (omit midbrain, ventricles); C 1 (2-4 8-10) 2 (1 3-5); D 2; F 2 9 10 Ch50: A 5 7 11 13 15 16 19 (we used a similar word that means the same thing – see course notes) 28-36; C 1 2 (omit 3 5 9); E 1 4 8-10; G 1 2 12 Ch51: A 14 15 19-24 26-30 (28 is missing commas “...is affected, by the...vessel, and by...”); B (and name the vessels and areas involved with each); F 1 (might want to head back to CV I for atherosclerosis risk factors!) Note Exam 5 comes up quickly so prep over the weekend!
14 Tuesday	12/8/2009 Dr. Chang	Musculoskeletal Disorders	Ch56: A 1 2 608 11 16 17; C 10; D (and consider drawing your own version & relate to questions E 5-6); E 5 6; G 5 6 Ch57: A 1 4 5 9 12 13 17; B comminuted, transverse, spiral (and consider drawing your own versions of the other fx types discussed in lecture); C 1 4-6 9; D; E 1 5; G 2 (2 5 6) 7 (2) 8 Ch58: A 13; C 5 6 Ch59: A 1 2 9 10 16; B; E 1 2 4; G 8
15 Thursday	12/10/2009 Dr. Bay Dr. Chang	Exam 5	Exam 5 will cover contents from Weeks 13 to 14 (150 points).
15 Friday	Exam review Dr. Bay Dr. Chang	Times to be announced for review of all course exams	Note Final exam comes up quickly so prep over the weekend!
Finals Week	Dr. Bay Dr. Chang	Final Exam (see syllabus) Section 1: 12/16 7:45 to 9:45am	Final exam will cover contents from Weeks 1 to 14 (150 points). According to University policy, the only students able to schedule an

	<p>NUR300 has a Common Final Exam for both sections.</p> <p>Check all other courses for conflicts!</p>	<p>Section 2: 12/17 10:00am-12 noon</p> <p>Location TBA via ANGEL.</p> <p><i>*Final Exam times are subject to change and depend on room assignment.</i></p>	<p>alternative final are those who have 3 finals scheduled on the same day (NUR300 and two others), or 2 finals with overlapping times—both very rare circumstances. Students must supply documentation by <u>Oct 1, 2009</u> Documentation includes: <u>syllabus from the conflicting course, course schedule from StuInfo, and dates/times of all other final exams</u>. Students with documented conflicts will take the NUR300 final on an alternative date and time determined by the Course Chair.</p>
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