PATHOPHYSIOLOGY
NUR 300 Sections 734
4 Credits
ONLINE
Fall 2012

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.

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

Co-requisites: None

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


FACULTY

Brigid Warren, MSN, RN, CS
Email: brigid.warren@hc.msu.edu
Office Phone: 517.353.8686
Office Location: A106 Life Sciences
Office Hours: Please contact for an appointment. Time can be arranged to accommodate student and faculty schedules. Please plan ahead and email 3 available times several days in advance.

Mei-Wei Chang, PhD, RN
Email: wei.chang@hc.msu.edu
Office Phone: 517.353.4702
Office Location: B515-F West Fee Hall
Office Hours: Please contact for an appointment. Time can be arranged to accommodate student and faculty schedules. Please plan ahead and email 3 available times several days in advance.

Access to Faculty

In a regular classroom setting, faculty are generally available to meet with students before or after class, during scheduled office hours, or if an appointment is made. In an online course setting, faculty are available to answer questions in a different manner. It may take up to 72 hours for faculty to respond to your questions – especially after 5:00 pm, excluding weekends and holidays.

Faculty are not online 24 hours a day, 7 days a week. Expect a reasonable response time for your questions. Do not wait until the last minute to ask an important question – plan ahead! Generally, faculty will not respond to questions after 5:00 pm EDST on Friday.

Required Texts:


Recommended Texts:

Freidhoff, Laura. (2010). *Course pack for NUR 300, 001-002*. Available through the medical bookstore in Fee Hall. *(Strongly recommended.)*

(Study guide may also be published under the text authors Porth & Matfin.)

Optional Textbooks: Are faculty suggestions for information that “may” help you help yourself in learning difficult material


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!
Instruction:

Methodology:

NUR 300-734 uses an online format which serves as a web-based classroom. The classroom includes many important areas including Power Point presentations, readings, exams, quizzes, case study, exercise, and other activities. Discussion boards will be available in ANGEL for students to post questions. No points will be awarded for participation but students are encouraged to participate.

EVALUATION/GRADING SCALE

<table>
<thead>
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<th>LOW</th>
<th>HIGH</th>
<th>%</th>
<th>GRADE</th>
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<tr>
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<tr>
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<td>401</td>
<td>65-69%</td>
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<tr>
<td>373</td>
<td>&lt;64%</td>
<td>&lt;64%</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Course Grades will not be rounded.

Point Determination will be as follows:

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>POINTS</th>
<th>LENGTH</th>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Studies/Exercises (2 each/4 total)</td>
<td>100</td>
<td></td>
<td>Word document submission to Drop Box</td>
</tr>
</tbody>
</table>
| Exams (4) All exams are cumulative meaning material from week #1 can be included on all subsequent work. | 200    | 60 minutes each | • 50 questions  
• Multiple choice; true/false; matching |
| Final Examination Cumulative of all material. Exam is scheduled for Dec. 10, 2012 from time frame 12:05 AM to 11:55 PM; you will have 2 hours within this time frame to complete the exam. THIS TIME IS NOT NEGOTIABLE! | 200    | 2 hours | • 100 questions  
• Participation in Discussion Forums each week |
| Participation/Engagement        | 75     |          |                                             |
| TOTAL                           | 575    |          |                                             |

Evaluation Methods:

A grade of 2.0 must be achieved in order to pass NUR 300.

Evaluation strategies used may include: your reaction (participation/engagement) in the discussion forums, active and positive contributions that are professional and ethical; positive communication, performance on examinations and evaluations.

Active, relevant, professional and ethical participation is expected. Each student will be evaluated ongoing during the semester.

Examinations: All students are expected to take examinations at the designated date and time. If there is an unexpected personal or family emergency, such as medical emergency or death of an immediate family member, all course faculty members must be contacted immediately via email. A medical excuse is needed. A family vacation, need to work, etc., does not constitute an unexpected emergency! Exams may only be taken late with the permission of the course faculty and
only for extraordinary circumstances. Alternative exams may be used for make-up. Alternative exams may include essay and/or short answer questions. Make-up examinations will normally be completed within one week of the scheduled exam week.

Late assignments will not be accepted and 0 points will be assigned to the activity. All students are expected to submit assignments by the designated date and time. All case studies and exercises must be uploaded to the ANGEL drop box for the designated time (EST) and date/day. Also, the case studies and exercises will be READ ONLY IF they are uploaded to the drop box.

Please allow 14 working days for faculty to return graded assignments via ANGEL.

If a student experiences technical problems during an exam or uploading of an assignment, the student must:

1. Report to ANGEL Help Desk (via telephone) about the nature of the problems 1.800.500.1554 (24 hrs, 7 days/week) (517.355.2345 (24 hrs, 7 days/week)
2. Contact the course faulty by email immediately to report the nature of the problems.

Writing Requirements:

It is expected that students will engage in academic, scholarly dialogue on the discussion board at all times. APA format is essential for citations of work and a reference list is required. This is a minimum academic standard for this course and the RN to BSN program.

Web sources such as Wikipedia, Epodunk, WebMD are not considered scholarly or evidence-based and will not be accepted as sources within the course. Sources older than five years (unless considered by the discipline, a classic) will not be accepted.

Learning Methodologies:

This online ANGEL course is built on a weekly framework of material including: lesson plan including the weekly objectives, textbook readings, additional required readings (external links), key concepts and enrichment activities. Additionally, you will have guideposts to enhance the textbook materials. The first day of the course this semester is Wednesday, Aug. 29. Following weekly content will open each Monday at 12:05 am.

This course is not based on a self-paced learning model. Although assignments may be completed at any time during the week they are due, ALL materials need to be posted by 11:55 pm Eastern Standard Daylight Savings Time on the date specified each week unless otherwise instructed by faculty.

Students are expected to be active participants in the ANGEL discussion forums. Active participation (engagement) is an expectation for all students. Parameters and guidelines for participation can be found under Lessons – Course Documents in ANGEL. Friday/Saturday only posts in Discussion Forums will not be eligible for full credit as this is not considered engagement with classmates or faculty. As adult learners, it is expected that students will do relevant reading and study for the identified weekly topics. The expectation is that you will be prepared to participate/engage in the discussions and do so throughout the week. It is expected that students will search literature outside of the assigned textbook readings and suggest/share relevant findings with faculty and classmates.

Library Information

- Library Services: http://www.lib.msu.edu/services
- MSU Library: http://www.lib.msu.edu
- Proxy server: To access MSU library resources from an off-campus site, you must set up a proxy server. Directions to set up a proxy server are at: http://techbase.msu.edu/viewpathfinder.asp?id=2507

Access to ANGEL

You can access the class by going to http://angel.msu.edu. The course will not open until the 1st day of the fall semester: August 29, 2012 @ 0800 (Eastern Standard Daylight Savings time).

Technical problems with the use of ANGEL should be referred to the ANGEL help desk & not emailed to course faculty. The toll free ANGEL help line number is 1-800-1554 (North America and Hawaii), and the local campus area number is 1-517-355-2345.
If you have difficulty during a timed assignment, you need to contact the ANGEL Help Desk so a communication log is created. If you do not do this, faculty have no way to determine that you actually experienced problems and you may not be allowed to resubmit your work.

**Course Materials**

This course uses the [ANGEL course management system](www.angel.msu.edu). Lectures are only available online through ANGEL as narrated PowerPoint lectures (i.e. PowerPoint with voice-over). Most lectures are divided up into 2-3 parts to make the file sizes more manageable. The ANGEL course management system is also used for handouts, announcements, student-student communication and student-professor communication.

Students need reliable, high-speed access (cable or DSL) to the [ANGEL course management system](www.angel.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.

It is strongly recommended that students purchase a [course pack](http://nursing.msu.edu/MSN%20Programs/Handbooks/default.htm) by Dr. Laura Freidhoff, MD, which includes 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.

**Course Announcements** will be posted on ANGEL throughout the semester. It is the students’ responsibility to regularly check ANGEL for announcements and updates. This eliminates communication problems with different email systems and ensures the communication is posted in one location that is available to all and verifiable by the professor.

**UNIVERSITY AND 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 MSN Student Handbook: [http://nursing.msu.edu/MSN%20Programs/Handbooks/default.htm](http://nursing.msu.edu/MSN%20Programs/Handbooks/default.htm)
- Information for MSU Students: [http://www.msu.edu/current/index.html](http://www.msu.edu/current/index.html)
- Academic Programs: [http://www.reg.msu.edu/AcademicPrograms](http://www.reg.msu.edu/AcademicPrograms)

**Academic Integrity:**

Academic integrity is a minimal expectation of this course. *Academic dishonesty in any form will not be tolerated.* Any student involved in “suspected” academic dishonesty will be reported to the Office of Student Support Services and the Office of Academic Affairs in the College of Nursing. A grade of 0.0 may be issued for the course.

All course materials and activities must remain the property of the College of Nursing and must not be copied from the Internet. According to university policy, consequences for academic dishonesty may include failure of the course, expulsion from the major, or expulsion from the university.

All faculty generated materials are the intellectual property of faculty. You may copy for personal, study only purposes. Faculty materials may not be shared with others without first asking permission of the faculty author.

Online discussions and exercises are confidential and should not be discussed with others who are not enrolled in the class. It is important for each course participant to express his/her ideas. All ideas need to be respected in discussions and exercises.
Any “group projects” that are required, still require individual work as a minimal expectation. Any submission that is deemed unprofessional, negative or inflammatory may be deleted by faculty.

For further information you can access any of the following sites:

- Academic Integrity resource at MSU ([https://www.msu.edu/unit/ombud/academic-integrity/index.html#regulations](https://www.msu.edu/unit/ombud/academic-integrity/index.html#regulations))

**MSU Academic Integrity Policy:** Article 2.3.3 of the Academic Freedom Report states that “The student shares with the faculty the responsibility for maintaining the integrity of scholarship, grades, and professional standards.” In addition, the College of Nursing adheres to the policies on academic honesty as specified in General Student Regulations 1.0, Protection of Scholarship and Grades; the all-University Policy on Integrity of Scholarship and Grades; and Ordinance 17.00, Examinations. (See Spartan Life: Student Handbook and Resource Guide and/or the MSU Web site: www.msu.edu.) Therefore, unless authorized by your instructor, you are expected to complete all course assignments, including homework, lab work, quizzes, tests and exams, without assistance from any source. You are expected to develop original work for this course; therefore, you may not submit course work you completed for another course to satisfy the requirements for this course. Also, you are not authorized to use the www.allmsu.com web site to complete any course work in NUR 300.

Students who violate MSU rules may receive a penalty grade, including - but not limited to - a failing grade on the assignment or in the course. Contact the faculty of record for this course if you are unsure about the appropriateness of your course work.

See also [http://www.msu.edu/unit/ombud/honestylinks.html](http://www.msu.edu/unit/ombud/honestylinks.html)

**Plagiarism:**

“Plagiarism (from the Latin plagiarus, an abductor, and plagiare, to steal) is defined by the White House Office of Science and Technology Policy on Misconduct in Research as “ . . . the appropriation of another person's ideas, processes, results or words without giving appropriate credit” (Michigan State University, Office of the Ombudsman – What Are MSU’s Policies on Plagiarism? [http://www.msu.edu/unit/ombud/plagiarism.html](http://www.msu.edu/unit/ombud/plagiarism.html)).

Academically dishonest behavior presents an ethical and moral dilemma in online learning. With easy access to expanded technology and abundant resources online, the magnitude of academic dishonesty has increased. In this course, it is expected that you will complete your own work and recognize the work of others through appropriate citations including quotation marks, page or paragraph numbers and references.

Paraphrasing means taking someone else’s ideas and words and correlating them to your own ideas - in your own words. Paraphrasing does NOT mean changing a word or two in someone else's sentence, changing the sentence structure while maintaining the original words, or changing a few words to synonyms. If you are tempted to rearrange a sentence in any of these ways, you are writing too close to the original. That's plagiarizing, not paraphrasing. Paraphrasing is an acceptable way to use another person's ideas to support your argument as long as you attribute the material to the author and cite the source in the text at the end of the sentence. In order to make sure you are paraphrasing in the first place, take notes from your reading with the book closed. Doing so will make it easier to put the ideas in your own words.

In your individual work you should be able to demonstrate:

- A clear understanding of the material you've read
- Knowledge of scholarly, evidence-based resources that support the ideas you have developed
- Thorough analysis of the material from the textbook or acceptable resources that reflect your understanding

When you cite a source, you are using an expert’s ideas as proof or evidence of a new idea that you are trying to communicate to the reader.

You need to cite a resource when:

- You put all direct quotes in quotation marks (requires a name, date & page number as well)
- You changed the words used by the author into synonyms
- You completely paraphrased the ideas to which you referred
The moral: When in doubt, provide a citation

Here are two reliable web resources that you may want to investigate:

- Avoiding Plagiarism – the OWL at Purdue http://owl.english.purdue.edu/owl/resource/589/01/

Professionalism

Preparation for the professional practice of nursing requires more than the acquisition and application of knowledge. Therefore, in addition to the academic standards listed, the student must demonstrate:

1. Appropriate interpersonal relations and communication with peers, faculty and MSU College of Nursing staff.
2. Respect for faculty and classmates
3. Responsible fulfillment of class obligations
4. Honesty and integrity in all academic and professional matters

Failure to meet any of the above criteria may result in the student earning a grade of 0.0 for the course. College of Nursing policies regarding Professional Development Guidelines are found in CON Student Handbooks at the CON website. Students are responsible for the information found in the MSN CON Graduate Student Handbook.

The American Nurses Association (ANA) Code of Ethics must be followed at all times, The Code, with Interpretive Statements, may be found (for viewing only) at http://www.nursingworld.org/ethics/code/protedtec_nwcoe303.htm

MSU Accommodations for Students with Disabilities Policy: 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

MSU Disruptive Behavior Policy: Article 2.3.5 of the Academic Freedom Report (AFR) for students at Michigan State University states: "The student's behavior in the classroom shall be conducive to the teaching and learning process for all concerned." Article 2.3.10 of the AFR states that "The student has a right to scholarly relationships with faculty based on mutual trust and civility." General Student Regulation 5.02 states: "No student shall . . . interfere with the functions and services of the University (for example, but not limited to, classes . . . ) such that the function or service is obstructed or disrupted. Students whose conduct adversely affects the learning environment in this classroom may be subject to disciplinary action through the Student Faculty Judiciary process.

Disruption for an on-line course environment includes submissions in the discussion board or weekly chat that are inflammatory, disrespectful or negative. If faculty deem a students words to be unacceptable, the submission will be deleted and the student contacted by faculty.
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<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>TOPIC</th>
<th>Instructor</th>
<th>TEXTBOOK READINGS</th>
<th>ACTIVITY</th>
</tr>
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| 1    | Aug. 29 | Welcome & Introduction to the Course | Warren & Chang | Review:  
- Syllabus  
- Calendar  
- Course Documents  
Chapter 1  
Chapter 2  
Chapter 3 | Introduction of Self  
Discussion Forum |
| 2    | Sept. 3 | Cellular Adaptation Genetics Neoplasia | Chang | Chapter 4  
Chapter 5  
Chapter 6  
Chapter 7  
Chapter 8 | Discussion Forum |
| 3    | Sept. 10 | Hematopoiesis & Hemostasis RBC Disorders WBC Disorders | Chang | Chapter 9  
Chapter 10  
Chapter 11  
Chapter 12  
Chapter 13  
Chapter 14  
Chapter 15 | Discussion Forum |
| 4    | Sept. 17 | Inflammation & Healing Immune Disorders | Chang | Chapter 16  
Chapter 17  
Chapter 18  
Chapter 19  
Chapter 20 | Exercise #1 (25 points)  
Due 9/20 (Thurs.) at 11:55 PM to the Drop Box  
Discussion Forum |
| 5    | Sept. 24 | Cardiovascular Pt. 1 | Warren | Chapter 21  
Chapter 22  
Chapter 23 | Exam #1 Due Monday 9/24 between 12:05 AM to 11:55 AM. (Covers content from Weeks 2-4)  
Discussion Forum |
| 6    | Oct. 1 | Cardiovascular Pt. 2 | Warren | Chapter 24  
Chapter 25  
Chapter 26 | Discussion Forum |
| 7    | Oct. 8 | Respiratory | Warren | Chapter 27  
Chapter 28  
Chapter 29 | Case Study #1 (25 points)  
Due 10/11 (Thurs.) at 11:55 PM to the Drop Box  
Discussion Forum |
| 8    | Oct. 15 | Urinary & Renal Disorders | Warren | Chapter 30  
Chapter 31 | Exam #2 Due Monday 10/15 between 12:05 AM to 11:55 |
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<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Chapters</th>
<th>Notes</th>
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<tbody>
<tr>
<td>9</td>
<td>Oct. 22</td>
<td>Gastrointestinal Disorders</td>
<td>Chapter 36, 37, 38, 39</td>
<td>AM. (Covers content from Weeks 5-7)</td>
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<tr>
<td>10</td>
<td>Oct. 29</td>
<td>Endocrine Disorders</td>
<td>Chapter 40, 41, 42</td>
<td>Exercise #2 (25 points) Due 11/1 (Thurs.) at 11:55 PM to the Drop Box</td>
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<td>11</td>
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<td>Reproductive Disorders</td>
<td>Male, Female, STI</td>
<td>Chapter 43, 44, 45, 46, 47</td>
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<td>Neurologic Disorders Pt. 1</td>
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<td>Chapter 48, 49, 50, 51</td>
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<tr>
<td>13</td>
<td>Nov. 19</td>
<td>Neurologic Disorders Pt. 2</td>
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<td>Chapter 52, 53, 54, 55</td>
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<td>14</td>
<td>Nov. 26</td>
<td>Integumentary System</td>
<td></td>
<td>Chapter 60, 61</td>
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<tr>
<td>15</td>
<td>Dec. 3</td>
<td>Musculoskeletal System</td>
<td></td>
<td>Chapter 56, 57, 58, 59</td>
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<tr>
<td>16</td>
<td>Dec. 10</td>
<td>Wrap Up</td>
<td>Lee &amp; Chang</td>
<td>Scheduled Dec. 10 from 12:05 AM to 11:55 PM – any 2 hours within this time frame NOT NEGOTIABLE</td>
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**Course Ends Dec. 14, 2012 @ 1700**