PATHOPHYSIOLOGY for the ADVANCED PRACTICE NURSE
NUR 805 sections 731 - 737
3 Credits
On-Line Format
Fall 2012

Catalog Course Description: Alterations of various physiological systems. Pathophysiology of frequently encountered primary care conditions across the life span and special populations; in-depth case analysis of risk factors, pathophysiological changes, and associated clusters of signs and symptoms. Pathophysiological theories and evidence-based research as a basis for advanced practice nursing (APN).

Additional Course Description: NUR 805 is a graduate level course offered totally in an on-line ANGEL format. It is expected that the student already has sound foundational knowledge regarding anatomy, physiology, and basic pathophysiology. This knowledge should have been obtained through coursework as an undergraduate student and through providing hands-on nursing care in a variety of health care settings over a period of time.

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

1. Analyze the etiology and pathophysiological alterations associated with selected common primary care conditions across the life span.

2. Examine relevant theories and research as a basis for explaining the pathophysiological changes associated with common conditions in primary care.

3. Discuss the pathophysiological basis for development of clinical manifestations in selected common primary care conditions.

4. Discuss the issues/considerations associated with the pathophysiological changes in special populations.

5. Apply the pathophysiological principles to case situations as a basis for APN practice.

Prerequisites: None

Co-requisites: None
Professional Standards & Guidelines: The curriculum is guided by the following documents:


Lead Faculty: Linda Keilman, DNP, GNP-BC
Assistant Professor – HP
Gerontological Nurse Practitioner
517/355-3365 or Toll Free #: 1/800/605-6424
Life Sciences Building
1355 Bogue Street, Room A126
keilman@msu.edu

*Office hours or contact times are flexible & can be arranged!*

Faculty: Brigid Warren, MSN, RN
Associate Professor
517/353-8686 or Toll Free #: 1/800/605-6424
Life Sciences Building
1355 Bogue Street, Room A106
brigid.warren@hc.msu.edu

Required Textbooks:


Recommended (highly) Textbooks:

Optional Textbooks:

Optional or recommended books are faculty suggestions for information that “may” help you help yourself in learning difficult material. Recommended textbooks might be particularly of interest to those individuals having taken an undergraduate pathophysiology course more than 5 years ago. A lot has changed! See below!


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 Desk first!*

Learning Methodologies:

This online ANGEL course is built on a framework of material including: a lesson plan that includes the objectives, textbook readings, other required readings, key concepts, and enrichment activities. Elsevier Mosby chapter handouts will be available for every system. For some content, faculty will produce voice over PowerPoints with handouts. Both are good resources for note taking and studying.

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 2355 (11:55 pm Eastern Standard Daylight Savings Time [ESDST]) on Saturday evening of each week unless otherwise instructed by the faculty. Any changes will be found in Course Announcements, posted at least weekly.

Active participation throughout specific weeks is the expectation. *Friday/Saturday only or all postings on the same day of the week will not be eligible for full points 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 topics. As adult learners, it is also important that you read the rubrics in order to determine how your work will be evaluated.

The expectation is that the student will be prepared to participate/engage in the discussion forums and do so throughout the week. It is expected that students will search current literature (*not older than 2008*) outside of the assigned textbook readings and suggest/share relevant findings with faculty and classmates. If faculties post a question, the expectation is that it will be answered. If faculties e-mail a student, it is expected that the student will respond that they have received the e-mail communication in a timely manner.

It is imperative that the student understand normal structures and functions of the body learned in anatomy, physiology, and basic pathophysiology. If a number of years have passed since these types of courses were taken, it would be wise to review basic textbooks. It is the student responsibility to review this material as it serves as a foundation for this course.
The course textbook dedicates the first chapter of a body system to an anatomy and physiology review. It is extremely important that you read the material as a refresher. The last chapter of each system is generally related to children. The activities in this course will not cover pediatrics/children but will cover adolescents. For those of you going to be taking care of children as part of your future role (for example family nurse practitioner, clinical nurse specialist), you need to read and understand the pediatric material.

This course is structured by body systems. Not all systems are covered. The material covered will begin to help you understand the background necessary to be an advanced practice nurse (APN). You will need to read more than just the assigned textbook readings; you will need to determine how to find the most current information on a variety of different diseases. Library Tips are provided. Treatment/management of specific diseases is not covered in this course. In your future APN courses, treatment will be highlighted.

In the ANGEL course, there is a folder labeled Study Tips and Resources for Learning. It would be very beneficial to review some of this material during the first week of the semester. There is some very specific information on how to analytically approach the study of advanced pathophysiology as well as more general information on staying organized.

Access to NUR 805 through 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 (ESDST).

Except for the 1st week of the course, the “week” in this course is from Saturday morning to the following Saturday evening. New materials will open on Saturday @ 2355 and activities for that week will close the following Saturday @ 2355. Occasionally, faculty may have materials ready prior to 2355. Didactic materials will stay open for the duration of the semester once they are opened.

After each quiz has been completed, faculty will analyze the overall statistics and determine whether any changes need to be made. The quiz will then open for 48 hours for your review. You are not to copy, print, or write-out any of the questions or answers. You will receive a message when each quiz is open for review. This is the only opportunity you will have during the semester to review the quizzes.

Technical problems with the use of ANGEL should be referred to the ANGEL Help Desk and not emailed to course faculty. The toll free ANGEL help line number is 1-800-500-1554 (North America and Hawaii), and the local campus area number is 1-517-355-2345.

If the student has difficulty during a timed assignment, contact the ANGEL Help Desk so a communication log can be created. If home internet access has been temporarily lost, contact the ANGEL Help Desk. This is the only way in which faculty have to determine that the student actually experienced problems. If the student does not follow this process, they may not be allowed to resubmit the work.

The course will close December 14, 2012 @ 1700 (5:00 pm, ESDST).
Evaluation Methods, Parameters & Activities:

- Active, relevant, professional, and ethical participation (via e-mail, on-line, by telephone, or in person) is expected. Each student will be evaluated ongoing during the semester.

- Communication that is deemed unprofessional, negative, unacceptable or detrimental to student learning may be deleted from the course by the faculty. Any communication that is deleted will not count towards earning course points.

- Late assignments will not be accepted and 0 points may be assigned to the activity, unless prior authorization has been given by the lead faculty.

- Students must complete every assignment, in a timely manner in order to pass NUR 805. It is not an option to not complete an assignment. Any assignment not completed may result in a failure in the course.

- If a student has an emergency situation, the expectation is the lead faculty will be contacted prior to the assignment due date and time to make alternative arrangements.

- Directions for submission of all written work must be followed for formatting accuracy.
  - Documents not submitted utilizing the course format will either not be accepted or ½ the total possible points will be subtracted from the submission per faculty discretion.

- If the student has any technology difficulties or difficulty accessing ANGEL, please contact the ANGEL HELP DESK and have them assist.
  - ANGEL staff will not only help with the situation, a logged report is completed and submitted to faculty
    - In this way, faculties have received communication about your difficulty.
  - Do not think faculty will solve technology, program or computer issues with/for you!
  - Students are encouraged to send an e-mail message to the lead faculty regarding any technical difficulties – after speaking with ANGEL staff.

- Course activities/assignments will be throughout the entire semester.
  - For each activity, a brief explanation is provided below.
  - Additional and more specific information can be found in the ANGEL course, the Course Calendar, and the Lesson Plans.

- **Introduction of Self**
  - Format: Discussion Forum (DF); independent activity
    - Asynchronous (A): discussions are ongoing over several days; online visits occur at different times; determined by the student
    - Interactive (I): reciprocal dialogue between students and faculty
    - Threaded Discussion (TD): asynchronous activity where students respond to one another
  - Students will answer basic biographical, professional, and personal questions
  - Due Date: September 1st @ 2355
  - Points & Percentage: 10 points (5%)
• **Case Studies**
  - Format: DF; group activity
    - Groups will be assigned by the faculty (depending on the enrollment)
    - Cooperative Learning Principles (CLP) will be utilized
      - More information about CLP is contained in the ANGEL course under Lessons & Documents: Information for Course Activities: Cooperative Learning Principles
  - AITD
    - Please see the ANGEL course & look in the tab Lessons & Documents: Information for Course Activities: Case Study, Points to Ponder & Evaluation Rubric AND Assignment Expectations
  - Number: 4
  - Due Dates: please see the Course Calendar
  - Points & Percentage: 20 points each for a total of 80 points (20%)

• **Discussion Forums**
  - Format: independent activity
    - AITD
      - Please see the ANGEL course & look in the tab Lessons & Documents: Information for Course Activities: Discussion Forum Expectations & Evaluation Rubric
  - Number: 5
  - Due Dates: please see the Course Calendar
  - Points & Percentage: 10 points each for a total of 50 points (10%)

• **Quizzes**
  - Format: individual activity
    - Please see the ANGEL course & look in the tab Lessons & Documents: Information for Course Activities: Quiz Parameters
  - Number: 5 (please see the Course Calendar for specific weeks)
  - Due Date: please see the individual Lesson Plan for further information
  - Points & Percentage: 20 points each for a total of 100 points (20%)

• **Final Examination**
  - Format: individual activity
    - Please see the ANGEL course & look in the tab Lessons & Documents: Information for Course Activities: Final Exam Parameters
  - Number: 1
  - Date: December 12, 2012
  - Time: Starts precisely @ 0900 & ends at 1030 (the exam is taken simultaneously)
  - Points & Percentage: 75 questions, 150 points (45%)

• **Additional Activities**
  - At the discretion of the faculty, other types of assignments may be scheduled throughout the semester
  - Any impromptu activity will be required & consist of bonus points
  - The same expectations for quality will be the expectation
Evaluation/Grading Scale:

A grade of 3.0 must be achieved in order to pass NUR 805.

Grades will be determined by adding all of the course activities together and arriving at a specific number (point total). Each course activity has been assigned a percentage (%) which translates to weight of the activity compared to the totality of the course. This course is founded on points – not percentages!

The MSU 4.0 grading system will be utilized to report final course grades. Points will be rounded to whole numbers using the 0.5 rules. Points at ≥ 0.5 will be rounded up while those < 0.5 will be rounded down to the nearest whole number.

- There is no opportunity for “extra credit” or “make up work” in this course
- Late work will not be accepted

The following point scale will be used for final grade determination:

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<thead>
<tr>
<th>LOW</th>
<th>HIGH</th>
<th>%</th>
<th>GRADE</th>
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<tr>
<td>367</td>
<td>390</td>
<td>94 – 100</td>
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<tr>
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<td>273</td>
<td>292</td>
<td>70 – 74</td>
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<tr>
<td>254</td>
<td>272</td>
<td>65 – 69</td>
<td>1.5</td>
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<tr>
<td>234</td>
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<td>1.0</td>
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Point Determination Will Be As Follows:

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<th>POINTS</th>
<th>#</th>
<th>%</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction of Self</td>
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<td>1</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Quiz</td>
<td>20</td>
<td>5</td>
<td>20</td>
<td>100</td>
</tr>
<tr>
<td>Case Study</td>
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<td>20</td>
<td>80</td>
</tr>
<tr>
<td>Discussion Forum</td>
<td>10</td>
<td>5</td>
<td>10</td>
<td>50</td>
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<tr>
<td>Final Examination</td>
<td>150</td>
<td>1</td>
<td>45</td>
<td>150</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100</strong></td>
<td><strong>1</strong></td>
<td><strong>390</strong></td>
<td><strong>450</strong></td>
</tr>
</tbody>
</table>

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://msu.edu/viewpathfinder.asp?id=2507
Writing Requirements:

It is expected that students will engage in academic, scholarly dialogue on the discussion board at all times. *The minimum expectation for writing is at a graduate level consistent with the College of Nursing Graduate Handbook.* APA format is essential for citations of work and a reference list is required. This is a minimum academic standard for this course.

Accurate APA formatting must be utilized in the course. Formatting is evaluated based on the 6th edition, 2nd printing (2010) of the APA Manual – which is a required textbook for the course.

Professional/Scholarly Resources:

Web sources such as Wikipedia, Epodunk, WebMD, and wikis 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. Community nursing and medical-surgical textbooks are not appropriate resources to cite for this graduate, advanced course. Citations and references using these type of materials will not be counted toward earning points for the assigned activity. Google is not considered a scholarly or academic search engine and should be used minimally.

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/BSN%20Programs/Handbooks/default.htm](http://nursing.msu.edu/BSN%20Programs/Handbooks/default.htm)
- Information for Current Students—including Rights, Responsibilities and Regulations for Students [http://www.msu.edu/current/index.html](http://www.msu.edu/current/index.html)
- Academic Programs [http://www.reg.msu.edu/UCC/AcademicPrograms.asp](http://www.reg.msu.edu/UCC/AcademicPrograms.asp)

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 and Clinical 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.
Quizzes or the examination should not be entered before you are ready to take them and submit your answers. Other windows should not be open on your computer during the quiz or exam time. Clear your cache and cookies prior to taking a quiz or the final examination. It is imperative that when you open the quiz or exam window, you are prepared to answer the questions in the allotted time frame and submit for evaluation. You always need to have a back-up, emergency plan in place!

No books, notes, individuals, or web surfing can be allowed during quizzes/exams; it will not be tolerated. The ANGEL program is able to track access and opening of additional windows. Please do not be tempted to engage in unethical behavior as it will potentially result in no points being awarded for the work and a potential failure for the course.

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
- MSU Spartan Life Student Handbook and Resource Guide http://splife.studentlife.msu.edu/
- International Studies and Programs http://www.msu.edu/international/index.html

Students 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. You may not utilize a previous student's work or faculty materials and submit as your own.

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

**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 805.

**Plagiarism:**

"Plagiarism (from the Latin plagiarius, 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? Retrieved from 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 and unique individualism

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)
  - In pathophysiology – you should be stating the material in your own words & rarely utilizing quotes in your work!
- You changed the words used by the author into synonyms
- You completely paraphrased the ideas to which you referred
- Your sentence is mostly made up of your own thoughts, but contains a reference to the author's ideas
- You mention the author’s name in the sentence
- Generally, all statistics, numbers and facts require a citation

**The moral: When in doubt, provide a citation**

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

- Michigan State University, Office of the Ombudsman – What Are MSU’s Policies on Plagiarism? [https://www.msu.edu/unit/ombud/academic-integrity/index.html#regulations](https://www.msu.edu/unit/ombud/academic-integrity/index.html#regulations)
- Avoiding Plagiarism – the OWL at Purdue [http://owl.english.purdue.edu/owl/resource/589/01/](http://owl.english.purdue.edu/owl/resource/589/01/)

**On-Line Class Attendance:**

Class attendance (in an on-line, virtual capacity), or presence, is considered the responsibility of the student and is an essential and intrinsic element of the academic process. Points are earned for active and in-depth participation. Lack of participation is not acceptable. Communication that is not scholarly or academic in nature is not acceptable. Minimal work will earn minimal points.

To be engaged in a course, one participates throughout the week – not all on 1 day and not on the last 2 days only. Active participation and engagement is valued for scholarly debate and dialogue which is essential in an on-line graduate science course.
A student’s absence from class does not relieve him/her from responsibility for punctual fulfillment of any course requirement including participation/engagement. Faculties are not under any obligation to repeat a test, teaching or information given which was missed because of discretionary absence. Each faculty has the responsibility of informing students of what portion of your final grade is determined by regular class attendance. In this course, participation is considered mandatory.

**MSU Attendance Policy:** Students whose names do not appear on the official class list for this course may not attend this class. Students who fail to attend the first four class sessions or class by the fifth day of the semester, whichever occurs first, may be dropped from the course.

**Professionalism:**

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

- Appropriate interpersonal relations and communication with peers, faculty and MSU College of Nursing staff
- Respect for faculty and classmates
- Responsible fulfillment of all class obligations
- Honesty and integrity in all academic and professional matters
- The ability to interact with course faculty when there are questions and/or concerns regarding evaluation; the faculty of record, or lead faculty, should be contacted first!!

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 Stat ements, may be found (for viewing only) at [http://www.nursingworld.org/MainMenuCategories/EthicsStandards/CodeofEthicsforNurses/Code-of-Ethics.pdf](http://www.nursingworld.org/MainMenuCategories/EthicsStandards/CodeofEthicsforNurses/Code-of-Ethics.pdf)

**MSU Disruptive Behavior Policy:** Article 2.3.5 of the Academic Freedom Report (AFR) [http://splife.studentlife.msu.edu/](http://splife.studentlife.msu.edu/) 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 [http://splife.studentlife.msu.edu/graduate-student-rights-and-responsibilities](http://splife.studentlife.msu.edu/graduate-student-rights-and-responsibilities) 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.

**Fair Use:**

Under Fair Use, images, photographs, and other artist work in this course are used for non-profit educational purposes. Materials are located in the public domain, free stock photos (for example Google Image), clip-art image stock (for example, Microsoft Office), and government and educational image/health libraries. Images are given attribution in respect of the author and any copyright issues.
Student Feedback:

Ongoing student feedback related to the course, faculty, and sharing of ideas is appreciated throughout the entire semester. In NUR 805, faculties are always looking for better ways to help students learn the complex material. If you find any errors (grammar, spelling, etc) in the documents – please let the lead faculty know. We are happy to have your constructive and specific comments!

You will also be asked to complete the university SIRS forms for the course and faculty at the end of the semester. This information is confidential and gives you a voice in sharing your thoughts about your learning experience. Thank you in advance for any comments!

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, faculties 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 (1700), excluding weekends and holidays.

Faculties 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 Discussion Forums after 1700 (5:00 pm ESDST) on Friday. Please write e-mail in complete sentences; your emails are considered professional communication. Remember, you are not internet messaging to a friend. If you would like to make an appointment to meet face to face, please contact Dr. Keilman.

The faculty reserves the right to revise the course calendar as deemed appropriate and necessary. Students will receive advanced notice of any changes via MSU e-mail and Course Announcements. A revised and dated calendar will be posted in ANGEL should changes occur!
# Course Content, Textbook Readings & Activities:

<table>
<thead>
<tr>
<th>WEEK &amp; DATE</th>
<th>CONTENT</th>
<th>TEXTBOOK READINGS</th>
<th>ACTIVITY</th>
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<tbody>
<tr>
<td>1</td>
<td>• Introduction to the Course</td>
<td><em>McCance &amp; Huether</em></td>
<td>• Introduction of Self</td>
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<tr>
<td>August 29th –</td>
<td>• Cells &amp; Tissues <em>(Review)</em></td>
<td></td>
<td><em>Due Sept 1st</em> 2355</td>
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<td>September 1st</td>
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<tr>
<td>2 &amp; 3</td>
<td>• Genetics</td>
<td><em>McCance &amp; Huether</em></td>
<td>• DF #1</td>
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<td>September 2nd –</td>
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<td>• Quiz #1</td>
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<td>4</td>
<td>• Hematologic System</td>
<td><em>McCance &amp; Huether</em></td>
<td>• Case Study #1</td>
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<tr>
<td>September 16th –</td>
<td></td>
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<td><em>Due Sept 22nd</em> 2355</td>
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<td>September 22nd</td>
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<td>5</td>
<td>• Endocrine System</td>
<td><em>McCance &amp; Huether</em></td>
<td>• DF #2</td>
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<td>September 23rd –</td>
<td>• Reproductive System</td>
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<td>6 &amp; 7</td>
<td>• Neurological System</td>
<td><em>McCance &amp; Huether</em></td>
<td>• Quiz #2</td>
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<td>September 30th –</td>
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<td>8 &amp; 9</td>
<td>• Cardiovascular &amp; Lymphatic</td>
<td><em>McCance &amp; Huether</em></td>
<td>• DF #3</td>
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<td>October 14th –</td>
<td>System</td>
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<td></td>
<td>• Quiz #3</td>
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<td><em>Due Oct 27th</em> 2355</td>
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<td>• Pulmonary System</td>
<td><em>McCance &amp; Huether</em></td>
<td>• Quiz #4</td>
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<td>October</td>
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<td>WEEK &amp; DATE</td>
<td>CONTENT</td>
<td>TEXTBOOK READINGS</td>
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<td>28th – November 3rd</td>
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<td>Chapter 34: pages 1310-1316; 1320-table on 1321; 1326-1336; 1339-1340</td>
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<td>11 November 4th – November 10th</td>
<td>Renal &amp; Urologic System</td>
<td>McCance &amp; Huether</td>
<td>Case Study #3 Due Nov 10th</td>
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<td>Digestive System</td>
<td>McCance &amp; Huether</td>
<td>DF #4 Due Nov 17th</td>
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<td>Musculoskeletal System</td>
<td>McCance &amp; Huether</td>
<td>Quiz #5 Due Nov 24th</td>
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<td>Integumentary System</td>
<td>McCance &amp; Huether</td>
<td>DF #5 Due Dec 8th</td>
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<td>Final Exam Week</td>
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<td>Final Exam December 12th 0900 – 1030</td>
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* All images in the calendar from Microsoft Office Clip Art

Other pertinent documents & activity expectations/rubrics are located in the ANGEL course!

*The ANGEL course will no longer be available after December 14th @ 1700*