Course Syllabus Fall 2007

Credits: 3 (3-0)

ANGEL On-line Format

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 research as a basis for advanced practice nursing.

This is not an introductory pathophysiology course. It is expected that students already have a basic understanding of pathophysiology, physical assessment, pharmacology, and pharmacokinetics.

Course Objectives

At the conclusion of this course, the student will be able to:

1. Analyze the etiology and pathophysiological alternations 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 and considerations associated with the pathophysiological changes in special populations.

5. Apply the pathophysiological principles to case situations as a basis for advanced practice nursing.
**Prerequisites**

Basic undergraduate anatomy, physiology and pathophysiology course; enrolled in a graduate nursing program

**Course Faculty**

Linda J. Keilman, MSN, APRN, BC  
Assistant Professor (HP)  
Gerontological Nurse Practitioner  
*Faculty of Record*  
A126 Life Sciences Building  
Office Hours Arranged  
517/355-3365  
keilman@msu.edu

Laura M Freidhoff, MD  
Assistant Professor  
A202 Life Sciences Building  
Office Hours Arranged  
517/432-8309  
freidhla@msu.edu

Brigid Warren, MSN, RN  
Associate Professor  
A106 Life Sciences Building  
Office Hours Arranged  
517/353-8686  
Brigid.warren@hc.msu.edu

All communication or questions about the course should be addressed to Professor Keilman

**Learning Methodologies**

This online ANGEL course is built on a weekly framework of material including: guidepost and introduction to the week’s content, objectives, textbook readings, occasional required readings outside of the assigned text, quizzes, reaction activity or discussion question (participation/engagement), case studies and a final examination.
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) on Saturday evening of each week. We highly encourage students to participate throughout the week. *Friday/Saturday only posts 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 weekly topics. The expectation is that you will be prepared to participate/engage in the discussions and do so throughout the week.

**Required Textbooks**

*The required pathophysiology text for the course is McCance & Huether (2006). You are also required to purchase the APA Manual or the alternative rule book we are offering. See below!*


*(OR)*


* (Must purchase the textbook with pass code for access to on-line materials)

**Grading**

Grades will be determined by adding all of the course activities together and arriving at a specific number (point total). 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 rule. 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” in this course.
The following point scale will be used for final grade determination:

<table>
<thead>
<tr>
<th>LOW</th>
<th>HIGH</th>
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<th>GRADE</th>
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<tbody>
<tr>
<td>270</td>
<td>290</td>
<td>65 – 69</td>
<td>1.5</td>
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<tr>
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<tr>
<td>Below 250</td>
<td>Below 60</td>
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Point Determination Will Be As Follows:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
<th>Number</th>
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<tbody>
<tr>
<td>Introduction of Self</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Review Quiz</td>
<td>25</td>
<td>1</td>
<td>25</td>
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<tr>
<td>Quiz</td>
<td>10</td>
<td>13</td>
<td>130</td>
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<tr>
<td>Participation/Engagement (Reaction to Discussion Forum Questions)</td>
<td>5</td>
<td>9</td>
<td>45</td>
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<tr>
<td>Case Study</td>
<td>10</td>
<td>6</td>
<td>60</td>
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<tr>
<td>Final Examination</td>
<td>150</td>
<td>1</td>
<td>150</td>
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<tr>
<td>Midterm Evaluation of Course &amp; Faculty</td>
<td>2</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Final Evaluation of Course &amp; Faculty</td>
<td>2</td>
<td>1</td>
<td>2</td>
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<tr>
<td>TOTAL</td>
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<td>416</td>
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**Evaluation**

Evaluation strategies used may include: your reaction to the question of the week, quizzes, final examination, active and positive weekly contribution, case studies, student activities, written assignments and online discussions.

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

Students must complete **every** assignment in order to pass NUR 805. It is not an option to not complete an assignment. Assignments include participation/engagement on Discussion Forums.

*Any assignment not completed will result in a 0.0 in the course.*
If a student has an emergency situation, the expectation is the faculty of record (Keilman) will be contacted prior to the assignment due date to make alternative arrangements.

**Writing Requirement**

It is expected that students will engage in academic, scholarly dialogue on the discussion board. The minimum expectation for writing is at a graduate level. APA format is essential for citations of work and a reference list is required. For more information about APA requirements, and writing expectations, please go to the course in ANGEL, Course Documents, APA Guidelines.

Web sources such as Wikipedia and Epodunk 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.

**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 27, 2007 @ 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.

The course will close December 14, 2007 @ 1700 (5:00 pm ESDS).

**Academic Integrity**

Academic integrity is a minimal expectation of this course. *Academic dishonesty in any form will not be tolerated.* Any student involved in 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.

Lectures, quizzes and examinations 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.

Guideposts, case studies and Power Point lectures in the course 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
  [http://www.msu.edu/unit/ombud/RegsOrdsPolicies.html](http://www.msu.edu/unit/ombud/RegsOrdsPolicies.html)
- MSU Spartan Life Student Handbook and Resource Guide
- Information for Current Students – including Rights, Responsibilities and Regulations for Graduate Students
  [http://www.msu.edu/current/index.html](http://www.msu.edu/current/index.html)
- International Studies and Programs
  [http://www.msu.edu/international/index.html](http://www.msu.edu/international/index.html)

**MSU Academic Integrity Policy:** Article 2.3.3 of the [Academic Freedom Report](http://www.msu.edu/unit/ombud/honestylinks.html) 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](http://www.msu.edu) and/or the MSU Web site: [www.msu.edu](http://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 ww.allmsu.com web site to complete any course work in NUR 805.

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 plagarius, 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]).

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
- 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:
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 will be earned each week for active participation. Lack of participation is not acceptable.

To be engaged in a course, one participates throughout the week – 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, weekly participation/engagement 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 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.

**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.

**Library Information**

- Library Services: [http://www.lib.msu.edu/services](http://www.lib.msu.edu/services)
- MSU Library: [http://www.lib.msu.edu](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](http://techbase.msu.edu/viewpathfinder.asp?id=2507)

**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 is 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 EDST) on Friday. Please write email 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 the faculty of record (course chair) – Linda Keilman.

Course Content, Textbook Readings, Topics & Activities

You will note that in the readings, for some chapters, you are required to read only select topics. The topics are listed after the chapter number. To locate the information, go to the 1st page of the chapter and look at the highlighted outline section. Students are responsible for reading all of the information under the topic heading except when told to “omit”. For example, the topic on Secondary Deficiencies includes pages 276 – 286 in chapter 8.

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<thead>
<tr>
<th>WEEK DATE</th>
<th>UNIT</th>
<th>TEXTBOOK &amp; TOPIC READINGS</th>
<th>ACTIVITY</th>
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</table>
| Aug 27    | • Introduction to the Course  
            • Introduction to ANGEL Course Management System  
            • Genes & Gene-Environment Interaction | *McCance*  
• Summary Reviews: pages 41 - 42; 87 - 88; 119 - 120; 206 - 208; 246 - 247  
• Chapter 4: pages 123-156  
• Chapter 5: pages 157-174 | • Introduction of Self  
• Review Quiz  
• P/E #1 |
| Sept 2    | • Alterations in Immunity & Inflammation  
            • Infection  
            • Stress and Disease | *McCance*  
• Chapter 8: pages 249-291  
• Chapter 9: pages 293-309  
• Chapter 10: pages 311-330 | • Quiz #1  
• P/E #2 |
| Sept 9    | • Biology of Cancer  
            • Tumor Invasion & Metastasis | *McCance*  
• Chapter 11: pages 333-370  
• Chapter 12 Topics (p.375): Tumor Spread *(omit 3-Step* | • Quiz #2  
• CS #1 |
<table>
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<tr>
<th>WEEK DATE</th>
<th>UNIT</th>
<th>TEXTBOOK &amp; TOPIC READINGS</th>
<th>ACTIVITY</th>
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<tbody>
<tr>
<td>4 Sept 16</td>
<td>Hematologic System</td>
<td><em>McCance</em> • Chapter 25: pages 893-925 • Chapter 26: pages 927-951 • Chapter 27: pages 955-995</td>
<td>Quiz #3, P/E #3</td>
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<td>6 Sept 30</td>
<td>Reproductive System</td>
<td><em>McCance</em> • Chapter 22: pages 735-769 • Chapter 23: pages 777-854 (<em>omit cancers</em>) • Chapter 24: pages 863-889</td>
<td>Quiz #5, P/E #4</td>
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<tr>
<td>7 Oct 7</td>
<td>Neurologic System</td>
<td><em>McCance</em> • Chapter 14: pages 411-445 • Chapter 15 Topics (p.447): Pain</td>
<td>Quiz #6, P/E #5</td>
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<td>WEEK DATE</td>
<td>UNIT</td>
<td>TEXTBOOK &amp; TOPIC READINGS</td>
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<td>• Chapter 17 Topics (p.547): Trauma (Pathophys, Manifestations, Evaluation &amp; Treatment of Diffuse Brain Injury only), Degenerative Disorders of the Spine, Degenerative Disk Disease, Cerebrovascular Disorders (omit Vascular Malformations), Demyelinating Disorders, Peripheral Nervous System Disorders (omit Radiculopathies)</td>
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<tr>
<td>8 Oct 14</td>
<td>Cardiovascular &amp; Lymphatic Systems Part I</td>
<td><strong>McCance</strong> • Chapter 29: pages 1181 – 1203 • Chapter 5 Topics (p/ 157): Coronary Heart Disease, Hypertension</td>
<td>• Quiz #7  • Midterm Course Evaluation</td>
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<td>WEEK DATE</td>
<td>UNIT</td>
<td>TEXTBOOK &amp; TOPIC READINGS</td>
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<td>Oct 21</td>
<td>Cardiovascular &amp; Lymphatic Systems Part II</td>
<td>• Chapter 30 Topics (p. 1081): Disease of the Arteries &amp; Veins (omit Thromboangiitis Obliterans, Raynaud Phenomenon), Coronary Artery Disease, Myocardial Ischemia &amp; Myocardial Infarction</td>
<td>• P/E #6</td>
</tr>
<tr>
<td>Oct 21</td>
<td>Cardiovascular &amp; Lymphatic Systems Part II</td>
<td>• Chapter 30 Topics (p.1081): Disorders of the Pericardium, The Cardiomyopathies, Valvular Dysfunction, Heart Failure, Dysrhythmias • Chapter 31 Topics (p.1147): Defects Increasing Pulmonary Blood Flow (omit Atrioventricular Canal Defect)</td>
<td>• Quiz #8 • CS #3</td>
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<tr>
<td>Oct 28</td>
<td>Pulmonary System</td>
<td>McCance • Chapter 32: pages 1181 - 1203 • Chapter 33: pages 1205 – 1245</td>
<td>• Quiz #9 • CS #4</td>
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<tr>
<td>Nov 4</td>
<td>Renal &amp; Urologic System</td>
<td>McCance • Chapter 35: pages 1279 – 1299 • Chapter 36: pages 1301 – 1332</td>
<td>• Quiz #10 • P/E #7</td>
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<td>WEEK DATE</td>
<td>UNIT</td>
<td>TEXTBOOK &amp; TOPIC READINGS</td>
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| 12 Nov 11 | Digestive System      | *McCance*  
  - Chapter 38: pages 1353 – 1382  
  - Chapter 39 Topics (p.1385): Clinical Manifestations of GI Function, Disorders of Motility, Peptic Ulcer Disease (*omit Stress-Related Mucosal Disease & Surgical Tx of Ulcer*), Inflammatory Bowel Disease, Clinical manifestations of Liver Disorders, Cirrhosis (*omit Biliary Cirrhosis*), Disorders of the Gallbladder, Disorders of the Pancreas, Cancer of the Colon & Rectum  
  - Chapter 40 Topics (1447): Pyloric Stenosis, Intussusception, Physiologic Jaundice of the newborn | • Quiz #11  
  • CS #5 |
| 13 Nov 18 | Musculoskeletal System | *McCance*  
  - Chapter 41: pages 1471 – 1494  
  - Chapter 42 Topics (p.1497): Musculoskeletal Injuries (*omit Rhabdomyolysis*), Osteoporosis, Osteoarthritis, Rheumatoid Arthritis  
  - Chapter 43 Topics (p.1547): Juvenile | • Quiz #12  
  • CS #6  
  • P/E #8 |
<table>
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<tbody>
<tr>
<td>Nov 25</td>
<td>Integumentary System</td>
<td>Rheumatoid Arthritis, Osgood-Schlatter Disease, Nonaccidental Trauma</td>
<td>Quiz #13</td>
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<td>McCance:</td>
<td>P/E #9</td>
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<td>• Chapter 44: pages 1573 – 1604</td>
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<td>• Chapter 45: pages 1609 – 1620</td>
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<td>Dec 2</td>
<td>Review &amp; Wrap Up</td>
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<td>Final Examination</td>
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<td>Friday December 7 1200 – 1600</td>
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<td>Final Course Evaluation</td>
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**Key**

CS = case study

P/E = participation/engagement

*Additional information related to the course can be found in ANGEL*