RDTK 2630  PATHOLOGY FOR RADIOGRAPHERS
Fall 2006
2 CREDIT

HS 124 (Thursdays 11:30-1:00 or 2:30-4:30, See syllabus for details)

Instructor:  Laurie Weaver, 268-2587  HS 105
Office hours:  Monday/Tuesday,12:00-1:00
               Thursday, 8:30-9:30/11:30-1:30

COURSE DESCRIPTION: General principles of pathology as well as disease processes and radiographic manifestations of specific body systems will be covered. A portion of the course will be devoted to the study of cancer and its radiographic appearance for the various systems.

Suggested Resource: Medical dictionary.

COURSE OBJECTIVES AND GOALS:
The student will:
1. gain an understating of the basic medical terminology used to describe various pathologic conditions occurring in the human body.
2. describe the basic physiology of the system in question.
3. identify basic anatomic structures on both diagrams and radiographs of the system in question.
4. be able to define terminology related to pathology and the system in study.
5. describe the various pathologic conditions affecting the system including signs, symptoms and radiographic manifestations.
6. utilize their pathology knowledge to observe and interview a patient so as to provide the best possible history to the radiologist.
7. be able to make appropriate changes in technical factors required for obtaining optimal quality radiographs in-patients with certain underlying pathologic conditions.
8. gain a better understanding of a given pathology, and be able to deliver individualized quality patient care by better use of appropriate communication and physical patient care skills.

METHODOLOGY:
Seminar, student presentations, observation in the field through experience and research, case study review.
TOPIC OUTLINE:

<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter</th>
<th>Speaker</th>
<th>Place</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-31</td>
<td>Ch. 1 Introduction</td>
<td>L. Weaver</td>
<td>HS 124</td>
<td>11:30-1:00</td>
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<tr>
<td>3-7</td>
<td>Ch. 1 cont’d.</td>
<td>L. Weaver</td>
<td>HS 124</td>
<td>11:30-1:00</td>
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<tr>
<td>3-14</td>
<td>WSRT Conference</td>
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<tr>
<td>3-21</td>
<td>Test Ch. 1</td>
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<td>HS 124</td>
<td>11:30-1:00</td>
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<tr>
<td>3-28</td>
<td>Rad. Observations</td>
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<tr>
<td>4-5</td>
<td>Chapter 5 Urinary System</td>
<td>Dr. Williams</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<tr>
<td>4-12</td>
<td>Chapter 10 Reproductive</td>
<td>Dr. Horn</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<tr>
<td>4-19</td>
<td>Chapter 3 Skeletal</td>
<td>Dr. Peters</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<tr>
<td>4-26</td>
<td>Chapter 8 Hematopoietic System</td>
<td>Dr. Smith</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<tr>
<td>4-2</td>
<td>2 Case Study Presentations</td>
<td>Student Presentations</td>
<td>HS 124</td>
<td>11:30-1:00</td>
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<td>4-9</td>
<td>Chapter 4 GI System</td>
<td>Dr. Wright</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<td>4-16</td>
<td>Rad. Observations</td>
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<td>Scheduled</td>
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<td>4-23</td>
<td>Thanksgiving Break</td>
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<td>Dinner Table</td>
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<td>4-30</td>
<td>Chapter 2 Respiratory System</td>
<td>Dr. Sulser</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<tr>
<td>5-7</td>
<td>Chapter 6 Cardiovascular</td>
<td>Dr. Cunningham</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<td>5-14</td>
<td>2 Case Study Presentations</td>
<td>Student Presentations</td>
<td>HS 124</td>
<td>11:30-1:00</td>
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<td>5-18</td>
<td>Chapter 7 Nervous System</td>
<td>Dr. Karaman</td>
<td>HS 124</td>
<td>2:30-4:30</td>
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<td>Dec.</td>
<td>Final Exam</td>
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<td>Final Exam: Schedule with instructor</td>
<td>HS 124</td>
<td>TBA</td>
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SCHEDULE SUBJECT TO CHANGE

GRADING CRITERIA:
A = 92-100
B = 83-91
C = 75-82
F = 0 -74

WEIGHTED COMPONENTS:
A. Chapter Worksheets and Lecture Notes: 175 points
B. Journals = 150 pts.
C. Case Study Presentations 25 pts. x 4 each = 100 points
D. Reading Room Assignment = 100 points
E. Final Exam= 200 points
F. Test: Chapter 1- 50 Points
G. Case Study Packet Reviews- 100 points

Last Day To Withdraw: November 3

Course Assignments:

I. OBSERVATIONS: Each student will spend sessions of three 2-hour blocks with the radiologists while reading radiographs. At least five of the pathology journal entries should come from this experience. The reading time will total 6 hours for the semester. These times can be scheduled with Laurie Weaver. A log sheet must be signed by the radiologist and turned in no later than December 14th: 150 points
Students will schedule the reading room observations at the Wyoming Medical Center or Outpatient Radiology Office as follows: (Students at outside clinical sites may complete these observations at those sites)
September: 2 hours during the week 7:30 a.m.-9:30 a.m.
October: 2 hours during the week 7:30 a.m.-9:30 a.m.
Nov./Dec: 2 hours during the week 7:30 a.m.-9:30 a.m.
The times listed are suggested to give the student the best experience during their observation.

II. CHAPTER LECTURE NOTES: The instructor will distribute Chapter worksheets and lecture notes prior to each chapter. The worksheets and lecture notes are due at the end of the class period on the appropriate due date. Worksheets and lecture notes are required for Chapters 2,3,4,5,6,7,8,9, and10.
Worksheets are worth 10 points each for a total of 70 points
Lecture notes are worth 15 points each for a total of 105 points

III. JOURNAL/ CASE STUDIES: A pathology journal will be utilized to give the student a practical working knowledge of Radiographic Pathology through experience, exploration and research.
During clinical education the student will keep a working journal of interesting pathology cases throughout the semester. This documentation must include the following if
applicable:

< Exam Performed/Explanation of procedure
< Patient history
< Any changes needed due to pathology, positioning, contrast media used, patient condition (patient care) and technique.
< A complete explanation of the diagnosed pathology received from the exam results - Include a definition and explanation of the pathology and how it relates to the items listed above
< Any additional tests required to diagnose this pathology.

The student will document a minimum of 15 cases. The student will present 4 case studies from his/her journal entries in class. The criteria listed above must be included in the presentation and films demonstrating the pathology must be shown. See course schedule for presentation dates, 2 presentations will be given by each student on the dates listed on the syllabus.

The completed journal must be typed and neatly organized.
Journal 150 points/Presentations 100 points

The completed journal is due December 7

IV. Case Study Review Packets: Students will be required to review two case study packets containing radiographs and scenarios outlining patient/clinical histories. Packet one will include pathologies from chapters 2,5,8,9 and 10. Packet two will include pathologies from chapters 3,4,6 and 7. Each packet is worth 50 points for a total of 100 points.

V. Final Exam: A comprehensive final exam will be given during finals week. This exam will present radiographs with different pathologies. Each radiograph will be accompanied by a patient history and other pertinent information regarding the radiographic pathology. The student will review the case history and radiograph and identify the proper pathology for each of the radiographs presented. Students will be allowed to use their pathology book to research the correct answer. Each student will schedule a date during finals week to take the test. Only three students will be allowed to take the exam at the same time. This will allow each student to be able to take the time needed to review each radiograph. 200 points

Student Rights and Responsibilities:
Please refer to the Casper College student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College student.

It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to see me at your earliest convenience.

RDTK 2630 – Pathology for Radiographers
Presentation of Case Studies
Grading Criteria
Each case study presentation is worth 25 points for a total of 50 points possible for the entire assignment.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Case #1 25 points</th>
<th>Case #2 25 points</th>
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<tbody>
<tr>
<td>Student presented an explanation of the exam performed. (5 points)</td>
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<td>Student gave a thorough explanation of the patient’s clinical history as it related to the pathology presented. (5 points)</td>
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<td>Student presented any changes required due to the pathology presented. These include but are not limited to: positioning, contrast, technique, etc. (5 points)</td>
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<td>Student presented a complete explanation of the pathology presented as received from the exam results. This included a definition of the presented pathology and how it relates to the criteria listed above. (5 points)</td>
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<td>Student showed films which accurately demonstrated the pathology discussed. (5 points)</td>
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Total Points for Each Study
Possible 25 points for each study:

Total Points Received for Entire Presentation
Possible 50 points total for assignment

Instructor Comments:

PATHOLOGY READING ROOM ROTATION 2005

STUDENT NAME: ________________________________
Form must be initialed by the attending radiologist and turned in by December 14th.

<table>
<thead>
<tr>
<th>Rotation Date</th>
<th>Date/Time Attended</th>
<th>Radiologist Initial</th>
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<tbody>
<tr>
<td>September</td>
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<tr>
<td>October</td>
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<tr>
<td>November</td>
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Rotation Notes: