

GENERAL COURSE INFORMATION: Spring 2011

Course Title: Bone Pathology II

Trimester Credit Hours: 4

Course Director: Sandra R. Norton, DC, DACBR

Email Address: snorton@parkercc.edu

Phone number: (214)902-2459, ext. 7315

Office Hours:

Monday 11:00- 12:50pm

Tuesday 11:00- 12:50pm

Wednesday 12:00- 12:50pm

Thursday 11:00- 11:50am

*or by appointment

Lab Director/Instructors:

Sandra Norton, DC, DACBR (Course Director)

Ken Garrett, DC, DACBR

Wes Duval, DC

Course Number: CLS-7102

Total Contact Hours Per Trimester: 75

Class meeting time: T, W, R, 7:00-7:50am

Lab Hours Per Week: 2

Lab Contact Hours/Trimester: 30

COURSE DESCRIPTION:

Bone Pathology II is the second of a two trimester sequence of courses focused on the imaging appearance of a variety of pathological aberrations involving the skeleton. This course utilizes a systematic approach to interpretation of diagnostic imaging studies. Emphasis is placed on the interrelationships between the fundamental histopathology and pathophysiology, the observable changes seen on imaging studies, and clinically relevant physical and biochemical findings. Categories of bone disease to be discussed include arthritic conditions and osseous trauma. This course supports the mission statement of Parker College of Chiropractic by helping to create leaders who promote Chiropractic wellness through high standards of education, research and service.

LEARNING OBJECTIVES:

Learning Outcomes: The primary objective of Bone Pathology II is to improve the student doctor's interpretation skills of diagnostic imaging studies, particularly conventional radiography, in regards to arthritic conditions and osseous injury. Upon successful completion of Bone Pathology II the student doctor should be able to:

1. Demonstrate the ability to incorporate basic science knowledge with clinical applications.
2. Demonstrate the ability to identify the radiographic findings/signs that aide in the diagnosis of various musculoskeletal disorders.
3. Demonstrate the ability to order and critically interpret clinically diagnostic procedures associated with the various pathologies discussed.
4. Interpret patient assessment data to formulate an accurate diagnosis and differential list.
5. Understand descriptive terminology used and interpret imaging study reports.

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Lab Objectives: The scheduled lab sessions are designed to augment the course lecture. A hands-on approach in regards to image interpretation will be utilized in an effort to reinforce pathologies discussed as a part of the core requirements of the course outlined above.

GENERAL APPROACH TO TEACHING:

The course material is presented in a traditional didactic manner utilizing lecture, PowerPoint's and class notes. The labs provide a hands-on atmosphere but will also incorporate quizzes, group projects and written assignments/reports. Students should come to class prepared and ready to discuss the topics of the day. Students are encouraged to participate in open discussion for the purpose of clarification and increased comprehension.

PREREQUISITES: Enrollment in Parker College of Chiropractic

REQUIRED TEXTS:

- Essentials of Skeletal Radiology 3rd ed., Yochum & Rowe
- Clinical Imaging 2nd ed., Marchiori
- Supplemental Class Notes—Bone Pathology II

REFERENCE TEXTS:

- Diagnosis of Bone and Joint Disorders 4th ed., Resnick
- Orthopedic Imaging— A Practical Approach 4th ed., Greenspan
- Musculoskeletal Imaging 3rd ed., Manaster, May, Disler
Musculoskeletal MRI, Kaplan, Helms, Dussault
- Robbins Pathological Basis of Disease 6th ed., Cotran et al

NOTE*: If there is a disagreement between the lecture material and the texts, consider the lecture material preeminent for testing purposes.

SUPPLIES: Paper, writing utensils, computer with internet connection (available in the library).

EVALUATION AND GRADING POLICY:

Written Examinations:

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| ▪ Written Examination I—Thursday, March 3 @ 7:00 AM | 15% |
| ▪ Written Examination II—Thursday, March 31 @ 7:00 AM | 15% |
| ▪ Comprehensive Written Final—Tuesday, April 19 @ 7:00AM | 20% |

The written examinations will be completed on Scantron[®] forms (or a form supplied by the instructor) and are multiple choice, matching and true/false format. Essay, short answer or fill-in-the-blank may be included with advanced notice. The midterm exams will consist of fifty to sixty (50 - 60) questions to be completed in fifty (50) minutes. The

final exam will consist of a maximum of one hundred (100) questions to be completed in ninety (90) minutes.

Lab (Practical) Examinations:

- Midterm – Thursday, March 10 @ 7:00 AM (in Class) 15%
- Comprehensive Final—Wednesday, April 13 @ 1:15 PM (in Class) 20%

The midterm practical examination will consist of twenty (20) to thirty (30) cases presented in view-box or PowerPoint® format. Two (2) questions will be asked on each case, with an allotted time of one minute and forty-five seconds (1'45") per case. Each case will consist of plain film only or plain film with some related advanced imaging (MRI, CT, scintigraphy, etc.).

The final practical examination is integrated with the final written examination. It will be composed of fifteen (15) to twenty (20) questions in PowerPoint® format. Each image or set of images (i.e. each slide) will comprise one question. Each slide will remain for thirty (40) seconds; however, the entire presentation will continuously loop during the entire examination period.

Quizzes/Assignments:

- Lecture and lab 15%

Lecture quizzes will be given at the discretion of the instructor and may be announced or unannounced. These quizzes will be completed independently by each student, consist of five (5) questions covering any previous topic and may be given at any time throughout the class period. Class attendance may count for a quiz grade as well. No make-up will be given for missed quizzes, to include the student arriving to class late. No exceptions for any reason will be accepted.

Lab quizzes will consist of five (5) to ten (10) questions and will be of PowerPoint® format. Students will collaborate in groups of three (3) or four (4) and are allowed to utilize books and notes, as these exercises are intended to be more challenging in nature. These quizzes will be given at the end of the scheduled lab period; however, only those students present during the entire lab period will be eligible to complete the quiz for a grade.

ESTIMATE OF STUDENT WORK LOAD:

A student should plan to spend a minimum of 5 – 10 hours per week on the materials presented in this course. Some may spend considerably more and some may spend less. Diagnostic Imaging is a subject that requires repetition to master. You should consider initially working alone and then in a study group so concepts can be discussed and elaborated upon. You must plan on using open labs, various websites and your written notes to gain a complete mental understanding of the radiographic concepts.

STUDENTS WITH SPECIAL NEEDS:

Parker College of Chiropractic adheres to section 504 of the Federal Disability law and assists qualified students. If you feel you qualify for this type of assistance, you should contact the Office of Student Affairs.

90/90 RULE:

NOT APPLICABLE FOR THIS CLASS

A complete listing of all Academic policies is found on the Parker Website:

<https://myparker.parkercc.edu/ics/Academics - Coursework/Course Catalog.jnz>

IMPORTANT NOTE:

The provisions contained in this syllabus do not constitute a binding contract between the student and the Parker College of Chiropractic. These provisions may be changed at any time and for any reason at the discretion of the Course Director. When it is necessary to make changes to this document, appropriate notice (at least one week, if at all possible) will be given to the student(s).