

COURSE SYLLABUS

Course Information

Course Name: Musculoskeletal Sonography I
Course Number / Section: MSK 110 IN1
Term / Year: Spring 2017 (1.9.17 – 3.6.17)
Days: Online
Class Hours: 2 hours/ Online
Lab Hours: 2 hours / Online and 2 weekend labs/semester
Clinical / Work Experience Hours: 6 hours/week
Credit Hours: 4

Instructor Information

Instructor: Dr. Randy Moore, DC, RDMS, RMSK
docrider831@gmail.com

Office Location: Virtual
Office Days / Hours: Virtual/TBA
Facilitates by _____

E-Mail:

Phone:

Supervisor Information

Name:

E-Mail:

Phone:

COURSE DESCRIPTION

This course introduces musculoskeletal (MSK) sonography. Emphasis is placed on the sonographic anatomy of the upper and lower extremities with correlated laboratory exercises. Upon completion, students should be able to recognize and acquire basic MSK images and correlate with normal anatomical structures.

PREREQUISITE/COREQUISITE COURSES / SKILLS

Acceptance into the Musculoskeletal Program

REQUIRED TEXTBOOK(S)

1. Moore, R. (2015) *Musculoskeletal Ultrasound for the Extremities: A Practical Guide to Sonography of the Extremities* ISBN-13: 978-1450595940 ISBN-10: 1450595944.
2. Jacobson, Jon (2013) *Fundamentals of Musculoskeletal Ultrasound*, 2nd ed. ISBN: 978-1-4557-3818-2.

OTHER REQUIRED MATERIALS AND SUPPLIES

1. Computer access, with at least Windows 2007 and access to Word.
2. Internet access (This course uses Moodle for course enhancement and Taskstream for clinical assessment)

PROGRAM OUTCOMES

- 1.1 Upon graduation the learner will be able to accurately create diagnostic ultrasound images using a working knowledge of the anatomy and physiology of the musculoskeletal system.
- 1.2 Upon graduation the learner will be able to possess an understanding of physical principles as related to sound interactions with tissue and utilize instrumentation accordingly to provide optimal diagnostic outcomes.
- 1.3 Upon graduation the learner will be able to critically think through and analyze normal anatomy and/or abnormal disease processes as related to Musculoskeletal Sonography.
- 1.4 Upon graduation students will possess the knowledge and demonstrate the skills necessary to successfully obtain employment, become a credentialed sonographer in musculoskeletal. Graduates will be able to function as a valuable part of a healthcare diagnostic team.

STUDENT LEARNING OUTCOMES

Upon completion of this course, you should be able to:

- 1.1 Recognize upper extremity musculoskeletal anatomy in correlation with pertinent musculoskeletal ultrasound exams
- 1.2 Efficiently obtain protocol images for prescribed upper extremity musculoskeletal ultrasound exams
- 1.3 Synthesize clinical information and given ultrasound images to formulate accurate evidence based preliminary findings regarding pathology versus negative case outcomes

Critical Requirements:

1. Lab hours (2 hour/week) are documented weekly through your lab journal. See Weekly Lab Assignment Guidelines under course resources for instructions.
2. Required clinical images are due each week. These will be turned in as still images under the Clinical Assignment in Moodle. Please follow the instructions given under the Clinical Assignment link on how to upload these videos. You will have only one document with all images included. The images are listed on both your course syllabus and in Moodle.
3. Your clinical hours (2 hours/ week) will need to be documented each week on your Clinical Time Sheet and signed by your clinical preceptor. You are required to upload your Clinical Time Sheet and your Patient Observation Sheet (where applicable) each week in Moodle and you will need to bring a copy of your time sheets and patient observations to lab weekends scheduled throughout the semester and at the end of the semester. This will be uploaded in the same document as your assigned images.
4. A case study will be due Week 6. This assignment will count for 2 hours of your clinical each week. Case study guidelines are posted under the initial documents in Moodle. The case study grade will be included in your clinical assignment grade which is 15% of the total grade. These will be uploaded into Moodle on Week 6 and your classmates will post questions based on the case study in the discussion forum during Week 7.

A current copy of your CPR certification must be kept on file or you cannot attend clinical.

METHODS OF EVALUATION

- Weekly/Biweekly Quizzes (25%)
- Lab Assignment (15%) [Weekly lab journal]
- Clinical Assignments (15%) [Weekly assigned images and Case Study]
- Final Competencies (20%) [Completed during on campus lab]
- Final Exam (15%)
- Discussion Forum (10%)

***Late assignments will not be accepted unless there is an extenuating circumstance & you seek prior approval from your instructor. ***

