RDLGY 7060 Course Syllabus

Course Title: Diagnostic Radiology
Course Number: RDLGY 7060
Course Dates:
Credits: 4
Course Times: M-F 8:00am – 5:00pm
Conference Times: Daily Noon Conference
Classrooms: Radiology Reading Rooms & HELIX Conference Rooms

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Course Description

Radiology 7060 is a 4-week general elective in diagnostic radiology and is designed to provide students with an overview of the various radiology subspecialties, including cardiothoracic imaging, abdominal imaging, musculoskeletal imaging, neuroradiology, breast imaging, nuclear medicine/molecular imaging and interventional radiology. Rotations are largely confined to the University Hospital, Huntsman Cancer Hospital, and Primary Children's Hopspital.

Students are expected to attend 4 hours of daily didactic lectures and case conferences given by radiology faculty, fellows and residents. Students likewise rotate through various readings for 3-4 hours per day as outlined above. Students are strongly encouraged to attend daily resident noon case conferences. Students are required to prepare and present a 10-15 minute oral PPT "interesting case" presentation to their classmates and course director(s) the final week of the course. Students are likewise required to complete a multiple choice written exam and oral exam the final week of the elective. Students will receive a final course grade based on reading room and lecture attendance, oral presentation, and final written/oral examination.

Course Objectives

After successfully completing this course you will be able to:

- Discuss the strengths and weakness of various imaging modalities, including conventional radiography, fluoroscopy, ultrasound, CT and MRI.
- Learn how to utilize appropriateness criteria as outlined by the ACR (American College of Radiology) to select the most appropriate imaging exam for a variety of clinical scenarios.
- Obtain a rudimentary knowledge of imaging anatomy on various imaging modalities.
- Learn how to recognize fundamental disorders on imaging studies.

Reading Resources

- Book: Learning Radiology Recognizing the Basics 4th Edition by William Herring MD
- Canvas: RDLGY 7060 Diagnostic Radiology learning modules

Weekly Lecture and Conference Schedule

8:00 AM – 10:00 AM	**Daily M – F**	**Medical Student Lectures**
10:00 AM – 12:00 PM	**Daily M – F**	**Reading Rooms**
12:00 – 1:00 PM	**Daily M – F**	**Resident Case Conference**
1:00 PM – 3:00 PM	**Daily M – F**	**Medical Student Lectures**
3:00 PM – 5:00 PM	**Daily M – F**	**Reading Rooms**

Students are expected to participate in case conferences which are held at noon via Zoom or in-person. A schedule of presenters and topics will be provided for you.

Instructions:
1) Log on to: Zoom
2) Enter Meeting ID: 924 3150 1169
3) Or Enter in **Link** in web browser: https://utah.zoom.us/j/92431501169

Course Grade and Evaluation

Each student will be evaluated by their mentors at the end of this 4-week elective course with a course grade of Honors, High Pass, Pass, Fail, Incomplete.

Attendings and mentors will be watching for
-Participation
-Engagement
-Attendance (*Each day is critical towards your grade so if you need to be absent, please touch base with Jessica to make sure you meet the attendance requirement. Typically, we allow 2 days but if more are needed approval will be granted on a case-by-case basis).*
-Professionalism
- And student's ability to share gained knowledge in diagnostic radiology methods.

Successful completion of course requirements includes:

Oral PPT Presentation: Each student will be required to prepare and present a **10-15 minute Powerpoint presentation** to be given the final week of the course. Presentations are given to the course director(s), resident course liaison and fellow medical student course participants. Presentations MUST reflect a specific **image-based disease process** with appropriate differential diagnosis. Radiology-related topics such as informatics, PACS technology, radiation dosimetry or physics are **not** appropriate topics. Radiology residents, fellows and attendings are excellent resources for useful project ideas, and can likewise assist in harvesting relevant images from PACS. Please discuss potential topics with the resident liaison or course director to insure that the topic is suitable, and to avoid redundant or duplicated topics amongst your classmates.

Written Exam: A multiple choice final exam will be given the final week of the course that is administered through Canvas. This is a proctored exam and is intended to assess student's knowledge of

common disease processes and image findings on various imaging modalities. This is not an open note/book/internet/colleague exam.

Oral Exam: An oral examination will likewise be given the final week of the course. The exam consists of a one-on-one 15-minute interaction with the course director. Each student will be shown several unknown cases, and will be expected to identify and describe abnormal findings on various imaging modalities, provide a differential diagnosis and most appropriate final diagnosis using appropriate radiologic terminology.

Tips for Success

1. **Participate.** This class requires engagement and having discussions with the reading room mentors is a critical part of the course. You can learn a great deal from discussing your questions, ideas, and perspectives with your mentors. Participation can also help you articulate your thoughts and develop critical thinking skills.
2. **Manage your time.** Make time for self-study and online learning each week. If there are opportunities to job shadow in ultrasound or in the MRI/CT scan rooms, plan ahead and be on time for scheduled procedures. Talk to course director about scheduling these opportunities.
3. **Login regularly.** Log in to Canvas several times a week to view learning modules and cases. Review course book and other optional reading assignments to gain knowledge in diagnostics.
4. **Test your knowledge.** After you become more familiar with the images and technology used to diagnose, put your knowledge to the test with the Canvas practice cases and quizzes in the modules for this course.
5. **Communicate.** If you need help with Canvas, questions with course schedule, connecting to online conferences, or other related course matters, reach out to MS Coordinator for support.

Conference Schedule

Date	Department Presenting	Presenter