Directions: Please complete this form to document your progress toward improving student learning. For each item, indicate your progress and your anticipated next steps. Thank you!

Course/Program Title: RAD 222 Principles of MR Imaging       Date: Spring 2014

Course/Program Team: Jennifer Beirdneau

Expected Learning Outcomes:

STUDENT LEARNING OUTCOMES:
At the completion of this course, the student will be able to:

• Describe the historical development of MRI technology and its advantages as an imaging modality today.
• Describe the basic principles of MRI.
• Define basic MRI terminology and image parameters used to produce magnetic resonance images.
• Identify common MRI parameters and the important role each plays in the production of an optimal magnetic resonance image.
• Describe MRI hardware and basic system operation.
• Identify common artifacts that can occur during MRI imaging and the compensation techniques used to manage them.
• Identify MRI contrast agents, their chemical and physiologic properties, and indications and contra-indications for their use.
• Describe the patient experience for a typical MRI exam, including patient preparation and post-exam instructions.
• Describe the “flow” of information from initial image acquisition to postprocessing, image interpretation and image storage.
• State the magnet safety and shielding guidelines required for patients and operators.

Assessment: (How do or will students demonstrate achievement of each outcome? Please attach a copy of your assessment electronically.)
• Chapter quizzes, exams, comprehensive final exam.

Validation: (What methods have you used or will you use to validate your assessment?)
• Students will successfully complete the course with 75% or higher.

Results: (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)
• 94% (15/16 students) successfully completed the course with 75% or higher. The 1 student failed class due to low test and quiz scores. Student is eligible to retake the course spring 2015.
Follow-up: (How have you used or how will you use the data to improve student learning?)
- Continue to help streamline quizzes to exams so that students understand and retain the material.
- Continue to use MR Basics as an additional resource for class to help to reinforce difficult concepts.
- Review sessions were offered to help students understand difficult concepts. Both in person and online reviews were held.

Budget Justification: (What resources are necessary to improve student learning?)
No new resources needed at this time.

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