

Revised: Spring 2016

RAD 115

Principles of Magnetic Resonance Imaging

COURSE OUTLINE

Prerequisites: ARRT or eligible

Course Description:

Presents concepts of Magnetic Resonance Imaging and Physics. Teaches fundamentals of Magnetic Resonance and application of principles.

Semester Credits: 3 Lecture Hours: 3 Lab/Recitation Hours: 0

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Course Outcomes

Topical Description

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Required Materials

Textbook:

*Shellock, F. et al, (2014) **MRI Bioeffects, Safety, and Patient Management.**
Biomedical Research Publishing, Los Angeles, CA ISBN: 978-0-98916232-0-0
**this book will be available through the Health Professions Office at a special price arranged through the author!*

Westbrook, C. Roth, C. Talbot, J. (2011) **MRI in Practice** (4th Ed.) Malden, MA: Wiley-Blackwell: ISBN: 978-1-4443-3743-3

Westbrook, C. 2008 “**Handbook of MRI Technique**”, 3rd Ed. Malden, MA, Wiley-Blackwell, ISBN: 978-1-4051-8

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The following supplementary materials are recommended but not required:

NessAiver, Moriel (1977) **All you really need to know about MRI Physics**, Baltimore, MD, Rittenhouse Book Distributors, Inc.: ISBN: 0-9669082-0-X

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