

MRI MAGNETIC RESONANCE IMAGING

Hr/Wk	Hr/Wk	Sem
Lect/	Clin	Cr
Disc	Lab	Hr

Courses

MRI.250 MRI Physics & Instrumentation	4	4
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This course introduces the student to the principles of nuclear magnetic resonance and the equipment used to produce the MR image. Emphasis is placed on understanding the relationships between the various imaging sequences/parameters and how their selection affects diagnostic quality. MR safety considerations and quality assurance techniques are also presented. Admission to the Magnetic Resonance Imaging program is required to enroll in this course.

Offered: Spring

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable (1.2).

General Education -- Not Applicable

MRI.252 MR Imaging Procedures	3	3
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This course introduces the student to magnetic resonance imaging procedures. Patient screening and scanning protocols for examination of the head, neck, spine, thorax, abdomen, pelvis, musculoskeletal, and vascular systems will be addressed. The MRI technologist's role in identifying disease processes and trauma conditions will also be emphasized as it relates to the selection of MR imaging planes, sequences, and parameters. Admission to the Magnetic Resonance Imaging program is required to enroll in this course.

Offered: Spring

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable (1.2).

General Education -- Not Applicable

MRI.255 MRI Practicum	1	25	6
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This practicum course involves three days per week of clinical experience in affiliate hospitals and/or imaging centers. Assignments are made to enable students to achieve competency in performing magnetic resonance imaging procedures and in evaluating equipment operation. Course includes clinical seminars. Admission to the Magnetic Resonance Imaging program is required to enroll in this course.

Offered: Spring

Applicable toward graduation at Sandburg where program structure permits:

Degree or Certificate: AAS, AGS, and Certificates where applicable (1.2).

General Education -- Not Applicable