

CURRICULUM STANDARD

Effective Term
Fall 2007
[2007*03]

Curriculum Program Title

Magnetic Resonance Imaging

Code

A45800

Concentration

(not applicable)

Curriculum Description

The Magnetic Resonance Imaging (MRI) curriculum prepares students to become MRI technologist and skilled health care professionals that are trained to use magnetic energy fields to produce images of the human body.

Course work includes clinical rotations, imaging fundamentals, MRI physics, procedures, anatomy, pathology, patient care, and imaging ethics and law, in a medical environment. Students should be able to demonstrate all functional areas related to the magnetic resonance imaging field.

Graduates of accredited programs may be eligible to take the American Registry of Radiologic Technologists' (ARRT) national examination for certification and registration as MRI technologists. Graduates may be employed in hospitals, outpatient clinics, physicians' offices, government agencies, and research.

*Curriculum Requirements**

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- I. General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.
- II. Major Hours.** AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*
- III. Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	64-76	36-48	12-18

**Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.*

Major Hours

[ref. 23 NCAC 02E.0204 (3)]

- A. Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate, which is the highest credential level awarded under an approved AAS program standard, must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.
- B. Concentration** (if applicable). A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.
- C. Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work experience, including cooperative education, practicums, and internships, may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

Magnetic Resonance Imaging A45800

	AAS	Diploma	Certificate
Minimum Major Hours Required	49 SHC	30 SHC	12 SHC
<p>A. CORE</p> <p>Required Courses:</p> <p style="padding-left: 40px;">Major Courses</p> <p style="padding-left: 40px;">IMG 110 Fundamentals of Imag I 4 SHC</p> <p style="padding-left: 40px;">IMG 111 Fundamentals of Imag II 4 SHC</p> <p style="padding-left: 40px;">IMG 120 Patient Care Medical Imag 2 SHC</p> <p style="padding-left: 40px;">IMG 130 Imaging Ethics & Law 3 SHC</p> <p style="padding-left: 40px;">MRI 213 MR Patient Care & Safety 2 SHC</p> <p style="padding-left: 40px;">MRI 214 MRI Procedures I 2 SHC</p> <p style="padding-left: 40px;">MRI 215 MRI Procedures II 2 SHC</p> <p style="padding-left: 40px;">MRI 216 MRI Instrumentation 2 SHC</p> <p style="padding-left: 40px;">MRI 217 MRI Physics I 2 SHC</p> <p style="padding-left: 40px;">MRI 218 MRI Physics II 2 SHC</p> <p style="padding-left: 40px;">MRI 241 MRI Anatomy & Path I 2 SHC</p> <p style="padding-left: 40px;">MRI 242 MRI Anatomy & Path II 2 SHC</p> <p style="padding-left: 40px;">MRI 250 MRI Clinical Ed I 4 SHC</p> <p style="padding-left: 40px;">MRI 260 MRI Clinical Ed II 7 SHC</p> <p style="padding-left: 40px;">MRI 270 MRI Clinical Ed III 8 SHC</p> <p style="padding-left: 40px;">MRI 271 MRI Capstone 1 SHC</p> <p>Required Subject Areas:</p> <p style="padding-left: 40px;">None</p>	49 SHC		
B. CONCENTRATION (Not applicable)			
<p>C. OTHER MAJOR HOURS</p> <p><i>To be selected from the following prefixes:</i></p> <p style="padding-left: 40px;">ACA, BIO, CAT, CIS, COE, CSC, IMG, MRI, MED, NMT, PHY, RAD, and RTT</p> <p style="padding-left: 40px;"><i>Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i></p>			

