## **CURRICULUM STANDARD**

Effective Term Fall 2007 [2007\*03]

Curriculum Program Title	Magnetic Resonance Imaging	Program Code	A45800
Concentration	(not applicable)	CIP Code	51.0920

## **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 1D SBCCC 400.10]

- **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.
- **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning 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

<sup>\*</sup>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**

- **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-based learning 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 A	45800		
					AAS	Diploma	Certificate
Minimum Major Hours Required				49 SHC	30 SHC	12 SHC	
Α.	A. CORE				49 SHC		
Rea	uired C	ourses:					
		ajor Cour	ses				
		-					
	IMG	110	Fundamentals of Imag I	4 SHC			
	IMG	111	Fundamentals of Imag II	4 SHC			
	IMG	120	Patient Care Medical Imag	2 SHC			
	IMG	130	Imaging Ethics & Law	3 SHC			
	MRI	213	MR Patient Care & Safety	2 SHC			
	MRI	214	MRI Procedures I	2 SHC			
	MRI	215	MRI Procedures II	2 SHC			
	MRI	216	MRI Instrumentation	2 SHC			
	MRI	217	MRI Physics I	2 SHC			
	MRI	218	MRI Physics II	2 SHC			
	MRI	241	MRI Anatomy & Path I	2 SHC			
	MRI	242	MRI Anatomy & Path II	2 SHC			
	MRI	250	MRI Clinical Ed I	4 SHC			
	MRI	260	MRI Clinical Ed II	7 SHC			
	MRI	270	MRI Clinical Ed III	8 SHC			
	MRI	271	MRI Capstone	1 SHC			
Req	uired S	ubject Ar	eas:				
	None						
В.	CON	CENTRAT	<b>TION</b> (Not applicable)				
c.			R HOURS				
	To be	selected fro	om the following prefixes:				
	BIO,	CAT, CIS, C	SC, IMG, MRI, MED, NMT, PHY, RAD				
	Up to	o two sen	nester hour credits may be select				
	•		emester hour credits may be sele	,			
	prefi	xes: ARA	, ASL, CHI, FRE, GER, ITA, JPN, LA				