Associate in Applied Science in MRI Technology

Program Overview

Upon completion of this degree, students will earn an A.A.S. degree from Southwestern Michigan College and be eligible to sit for the MRI certification exam administered by the American Registry of Radiologic Technologists (ARRT).

To Learn More About This Program

Contact the Academic Advising and Resource Center at 269-782-1303 or askanadvisor@swmich.edu.

Degree Requirements

To earn this degree, students must have an overall GPA of 2.0 or higher, complete a minimum of 60 credit hours, and fulfill the course requirements of the program listed below. Students are permitted to complete a higher-level math course than shown below. Each general education course, prerequisite course, internship, and capstone course must be completed with a final grade of C or better (BIOL 214 with a grade of B- or better).

Course Offerings

This program is part of MWTEC (Michigan Workforce Training and Education Collaboration). Students pursuing an Associate in Applied Science in MRI Technology may complete general education courses, EDUC 120, BIOL 215, and HEED 101 through SMC either on-campus or online, if offered. All MRI courses are completed online through MWTEC and a partner institution. All MRI courses are charged at a per credit hour rate established by MWTEC. This rate differs from the Southwestern Michigan College tuition rate.

General Education Courses

COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or ENGL 103W	Freshman English 2 (or with workshop)	3 to 4 credits

MATHEMATICS

Course ID	Course	Credits
MATH 127	College Algebra	4 credits

NATURAL SCIENCE

Course ID	Course	Credits
BIOL 214	Basic Human Anatomy (min grade of B- required)	4 credits
CHEM 100	Fundamentals of Chemistry	4 credits

SOCIAL SCIENCE

Course ID	Course	Credits
PSYC 101	General Psychology	3 credits

Total Program Credits: 63

Major-Specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
BIOL 215	Principles of Human Physiology	4 credits
HEED 101	Medical Terminology	3 credits
MRI 200	Professional Prospectus	1 credit
MRI 260	Pre-Clinical Preparation	3 credits
MRI 261	Clinical Practice 1	3 credits
MRI 262	Clinical Practice 2	3 credits
MRI 263	Clinical Practice 3	3 credits
MRI 220	MRI Physics 1	3 credits
MRI 222	MRI Physics 2	3 credits
MRI 240	MRI Image Analysis	3 credits
MRI 295	MRI Certification Exam Prep	3 credits
MRI 201	Computer Applications in Medical Imaging	3 credits
MRI 241	Applied Sectional Anatomy	3 credits
MRI 230	MRI Procedures and Pathophysiology 1	3 credits
MRI 232	MRI Procedures and Pathophysiology 2	3 credits

Additional Notes About the A.A.S. in MRI Technology Program

- This program is a collaborative partnership between SMC and MWTEC.
- This is a very competitive program in which students must satisfy general education requirements before being accepted into the online portion of the program (year two through MWTEC). Students who are not accepted into year two may have other options to complete a health-related SMC degree program.
- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites is listed below in the Example Course Sequence.
- This program as outlined does NOT meet MTA requirements. Students would need another communication, one social science (non-PSYC), and two humanities courses. If interested in the MTA, students should seek help from an advisor for course selection.
- Courses taken out of sequence may delay a student's ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before they plan to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: English test score (Level 2 or higher) ENGL 103: ENGL 115 or English test score (Level 3); concurrent enrollment in ENGL 115 allowed
CHEM 100 Fundamentals of Chemistry	4 credits	MATH 114, MATH 128, MATH 150 (concurrent enrollment allowed), Math test score (Level 2 or higher), or Permission of the Dean; ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
BIOL 214 Basic Human Anatomy	4 credits	BIOL 101, BIOL 110, BIOL 202, BISC 111, or one year of high school biology with minimum grade of B within the last 5 years, or Challenge test score

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
PSYC 101 General Psychology	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
BIOL 215 Principles of Human Physiology	4 credits	BIOL 214; CHEM 100, or one year of high school chemistry with minimum grade of B taken within the last 5 years, or Challenge test score.
MATH 127 College Algebra	4 credits	MATH 114 (minimum grade of B-), Math test score (Level 3 or higher), or concurrent enrollment in MATH 127C
HEED 101 Medical Terminology	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed

SUMMER SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
MRI 200 Professional Prospectus	1 credit	Formal admission to the MRI program is required
MRI 241 Applied Sectional Anatomy	3 credits	Formal admission to the MRI program is required
MRI 260 Pre-Clinical Preparation	3 credits	Formal admission to the MRI program is required

FALL SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
MRI 201 Computer Applications in Medical Imaging	3 credits	MRI 200, MRI 241, and MRI 260
MRI 220 Physics 1	3 credits	Formal admission to the MRI program is required
MRI 230 Procedures/Pathology 1	3 credits	BIOL 215, MRI 200, MRI 241, and MRI 260
MRI 261 Clinical Practice 1	3 credits	MRI 200, MRI 241, and MRI 260

SPRING SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
MRI 222 MRI Physics 2	3 credits	MRI 201, MRI 220, MRI 230, and MRI 261
MRI 232 Procedures/Pathology 2	3 credits	MRI 201, MRI 220, MRI 230, and MRI 261
MRI 240 MRI Image Analysis	3 credits	MRI 201, MRI 220, MRI 230, and MRI 261
MRI 262 Clinical Practice 2	3 credits	MRI 201, MRI 220, MRI 230, and MRI 261

SUMMER SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
MRI 263 Clinical Practice 3	3 credits	MRI 222, MRI 232, MRI 240, and MRI 262
MRI 295 MRI Certification Exam Prep	3 credits	MRI 222, MRI 232, MRI 240, and MRI 262