

MAGNETIC RESONANCE IMAGING (MRI) TECHNOLOGY – ASSOCIATE OF APPLIED SCIENCE (AAS) PROGRAM OUTLINE

Total Clock Hours: 1754

Semester Credit Hours: 71.0

Program Length: 80 Weeks Day

Delivery Method: Hybrid Education delivered via both synchronous and asynchronous methods. Courses delivered residually are notated by an asterisk.

Objective: The Magnetic Resonance Imaging (MRI) Technology – Associate of Applied Science (MRIT-AAS) program is designed to prepare students for rewarding careers as entry-level MRI technologists within a variety of healthcare settings. This program equips students with the essential knowledge, technical competencies, and professional skills required to safely and effectively perform magnetic resonance imaging procedures for diagnostic and patient care purposes. The program is offered over an 80-week period consisting of five 16-week semesters, which includes 750 hours of hands-on externship in a clinical setting.

Students will gain a comprehensive understanding of MRI principles, cross-sectional anatomy, patient care procedures, imaging protocols, magnetic resonance physics, image acquisition, safety standards, and quality assurance practices. The curriculum emphasizes the importance of patient-centered care, ethical decision-making, effective communication, and adherence to industry regulations and MRI safety guidelines. Students will develop proficiency in operating MRI equipment, positioning patients, administering imaging procedures under appropriate supervision, and producing high-quality diagnostic images while maintaining patient comfort and safety. The program curriculum includes a combination of synchronous and asynchronous learning modalities, followed by supervised clinical learning experiences in a variety of healthcare environments.

Students will also be prepared to sit, upon completion of the program, for industry-recognized certification examinations, such as the R.T.(MR) by the American Registry of Radiologic Technologists (ARRT) and MRI Technologist by the American Registry of Magnetic Resonance Imaging Technologists (ARMRIT), enhancing their employability and career advancement opportunities.

Graduates of this program will be prepared for entry-level positions as MRI Technologists in healthcare settings such as hospitals, outpatient imaging centers, physician practices, specialty clinics, and diagnostic imaging facilities. The program provides a foundation for lifelong learning and career advancement within the medical imaging profession.

Program Outline:

Course Code	Course Name	Lecture Hours	Lab Hours	Externship Hours	Total Hours	Semester Credits
BIOL2301	Anatomy & Physiology I - Lecture	48			48	3.0
BIOL2101	Anatomy & Physiology I – Lab *	0	32		32	1.0
BIOL2302	Anatomy & Physiology II - Lecture	48			48	3.0
BIOL2102	Anatomy & Physiology II – Lab *	0	32		32	1.0
ENGL1301	English Composition	48			48	3.0
MATH1314	College Algebra	48			48	3.0
PSYC2301	Introduction to Psychology	48			48	3.0
MRIT1301	MR Fundamentals	45			45	3.0
MRIT1302	MR Image Formation	45			45	3.0
MRIT1303	MR Parameters and Options	45			45	3.0
MRIT1304	MR Screening and Safety	45			45	3.0
MRIT2405	Cross Sectional Anatomy	60			60	4.0
MRIT2306	MR Procedures I	45			45	3.0
MRIT2106L	MR Simulation I	0	30		30	1.0
MRIT2307	MR Procedures II	45			45	3.0
MRIT2107L	MR Simulation II	0	30		30	1.0
MRIT2108	Medical Ethics and Law	15			15	1.0

MRIT2309	Patient Care	45			45	3.0
MRIT2310L	MR Simulation III	0	95		95	3.0
MRIT2811C	Clinical Externship I *	0		375	375	8.0
MRIT 2412	MR Registry Review	60			60	4.0
MRIT2313L	MR Simulation IV	0	95		95	3.0
MRIT2814C	Clinical Externship II *	0		375	375	8.0
TOTAL:		690	314	750	1754	71.0

** The Council on Occupational Education mandates calculated semester credit hours for the total program to be rounded down to the nearest whole semester credits.*