



## **Magnetic Resonance Imaging Technology A.A.S.**

Career Community: Health Careers

Curriculum Code: 1632

Effective: Summer 2025 – Summer 2028

### **Purpose of the Major**

This associate degree program is intended for individuals who are not already certified technologists with the American Registry of Radiologic Technologist (ARRT). The curriculum provides didactic hybrid distance education, laboratory simulation, and clinical experience to teach the essential content needed to begin a career in Magnetic Resonance Imaging. Graduates will be eligible to take the national registry examination administered by ARRT.

Courses in this program are offered through the Michigan Workforce Training and Education Collaborative, and are taught by various colleges in the Michigan Educational Programs in Collaboration (MI-EPiC) Consortium.

### **Milestone**

In addition to the required General Education courses in Math and English, completion of MRIT 201, MRIT 220, and MRIT 229 with a 2.5 or higher is a key component for success in completing this program. Knowledge obtained in these courses is the foundation for learning in other required courses. Students are encouraged to contact their faculty if they need additional assistance with learning the concepts presented in these courses.

### **Additional Information**

The MRI (Magnetic Resonance Imaging) Consortium Program through the Michigan Workforce Training and Education Collaborative of which LCC is a member, has been developed to be consistent with standards and requirements of the American Society of Radiologic Technologists (ASRT), the American College of Radiology (ACR), and the American Registry of Radiologic Technologists (ARRT).

Students must complete all non-MRIT courses with a minimum 2.5 prior to submitting their application for Program Approval. First semester MRIT courses require Program Approval. Applications must be submitted by February 1 and are available by contacting the Program Director of Imaging Technology at 517-483-1410. Once Program Approval is received, students must complete each MRIT course with a minimum 2.5 to progress to the next semester and meet graduation requirements.

### **Contact Information**

The admission and/or graduation requirements for this program may change each academic year. The program requirements below apply only to those students who have been admitted to the program for the 2025/2026 academic year. For further information, including career options, course substitutions and waivers, etc., contact the Medical Imaging Program, Health and Human Services Building, Room 108, telephone number 517-483-1410.

**Major Required Courses for Admission** – *Minimum 2.5 grade required. BIOL 201 and 202 also satisfies the General Education Natural Sciences Lab or Applied Sciences and Technology Lab requirement.*

Course Code	Course Title	Credit / Billing Hours
BIOL 201	Human Anatomy	4 / 6
BIOL 202	Human Physiology	4 / 5

**Major Required Courses for Admission, Limited Choice – English Composition** - *Select one. Minimum 2.5 grade required. This selection satisfies the General Education English Composition requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
ENGL 121	Composition I	4 / 4
ENGL 122	Composition II	4 / 4
ENGL 131	Honors Composition I	4 / 4
ENGL 132	Honors Composition II	4 / 4

**Major Required Courses for Admission, Limited Choice – English Composition (second course)/Communication** - *Select one. Minimum 2.5 grade required. This selection satisfies the General Education English Composition (second course)/Communication or Applied Communication requirement. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
COMM 110	Communication in the Workplace	3 / 3
COMM 120	Dynamics of Communication	3 / 3
COMM 130	Fundamentals Public Speaking	3 / 3
COMM 240	Interpersonal Communication	3 / 3

**Major Required Courses for Admission, Limited Choice – Mathematics** - *Select one. Minimum 2.5 grade required. This selection satisfies the General Education Mathematics or Applied Mathematics requirement. (Any course from the General Education Mathematics College Algebra category may also be selected.)*

Course Code	Course Title	Credit / Billing Hours
MATH 120	College Algebra	4 / 4
STAT 170	Introduction to Statistics	4 / 4
STAT 215	Intro to Probability and Stats	4 / 4

**Major Required Course for Admission, Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences** – *Select one as recommended below or select one from the full list of [General Education - Applied Degree](#), Humanities and Fine Arts or Social Sciences or Applied Social Sciences courses. Minimum 2.5 grade required. This requirement can be waived with proof of an earned associate degree (or higher) from an accredited college or university.*

Course Code	Course Title	Credit / Billing Hours
SOCL 120	Introduction to Sociology	4 / 4

**Major Required Courses for Admission, Limited Choice** - *Select one. Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
PHYS 120	The Art of Physics	4 / 5
PHYS 200	Intro to Applied Physics	4 / 5

### Minimum Total Credit Hours for Admission

27 credits / 31 billing hours

**Major Required Courses** – *Minimum 2.5 grade required.*

Course Code	Course Title	Credit / Billing Hours
MRIT 200	Professional Prospectus	1 / 0*
MRIT 201	Computer Apps/Medical Imaging	3 / 0*
MRIT 220	MR Physics I	3 / 0*
MRIT 222	MR Physics II	3 / 0*
MRIT 229	Applied Sectional Anatomy	3 / 0*
MRIT 230	MR Procedures and Pathophys I	3 / 0*
MRIT 232	MR Procedures and Pathophys II	3 / 0*
MRIT 240	MRI Image Analysis	3 / 0*
MRIT 260	MRI Pre-Clinical Preparation	3 / 0*
MRIT 261	Clinical Practice I	3 / 0*
MRIT 262	Clinical Practice II	3 / 0*
MRIT 263	Clinical Practice III	3 / 0*
MRIT 295	MRI Certification Exam Prep	3 / 0*

### General Education – Applied Degrees Courses

Major Required Courses for Admission will meet this requirement.

- English Composition or Applied English
- English Composition (second course)/Communication or Applied Communication
- Humanities and Fine Arts or Social Sciences or Applied Social Sciences
- Mathematics or Applied Mathematics
- Natural Sciences Lab or Applied Sciences and Technology Lab

## Additional Credits

After completing the course and credit requirements as noted on this pathway, students who fall short of the 60-credit minimum required for an Associate Degree may select any course(s) needed to reach 60 credits, except those courses noted in number 7 in the [Institutional Requirements for Associate Degrees](#). Students are encouraged to use Degree Works and meet with an Advisor to ensure all requirements are met and for course recommendations.

## Minimum Total Credit Hours

64 credits / 31 billing hours\*

\*MRIT courses follow the Michigan Workforce Training and Education Collaborative tuition rates, and are not included in the billing hours. Please contact the Radiologic Technology Program Director at 517-483-1410 for current tuition rates.

## Recommended Course Sequence for Admission

Semester I
BIOL 201
COMM 110, 120, 130, or 240
ENGL 121, 122, 131, or 132
PHYS 120 or 200

Semester II
Limited Choice – Humanities and Fine Arts or Social Sciences or Applied Social Sciences
BIOL 202
MATH 120 (or other Gen Ed Mathematics College Algebra course), STAT 170 or 215

## Required Course Sequence – Courses must be completed in the semester listed.

Semester III (Summer 2025)
MRIT 200
MRIT 229 – Milestone course
MRIT 260

Semester IV (Fall 2025)
MRIT 201 – Milestone course
MRIT 220 – Milestone course
MRIT 230
MRIT 261

Semester V (Spring 2026)
MRIT 222
MRIT 232
MRIT 240
MRIT 262

Semester VI (Summer 2026)
MRIT 263
MRIT 295

*LCC makes every effort to limit revisions to the pathways during their effective timeframe. However, the College reserves the right to update certificate and degree titles, and make course changes as needed, without prior notice. The College also reserves the right to discontinue programs when warranted.*