



# LAKE MICHIGAN COLLEGE

## APPLICATION FOR ADMISSION to the MRI PROGRAM SUMMER 2019 ENTRY

LAKE MICHIGAN COLLEGE  
ASSOCIATE IN APPLIED SCIENCE – MAGNETIC RESONANCE IMAGING

NAME \_\_\_\_\_ LMC STUDENT ID NUMBER \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

HOME PHONE \_\_\_\_\_ CELLPHONE \_\_\_\_\_

LMC EMAIL ADDRESS \_\_\_\_\_

**The following must be completed prior to program application:**

- ✓ Lake Michigan College Application
- ✓ All academic transcripts submitted to Lake Michigan College
- ✓ MRI Application submitted to LMC's Health Sciences Office by **February 1, 2019**
- ✓ Minimum GPA of 2.5 is required for program entry
- ✓ For each course listed below, please fill in an appropriate response:

Indicate your grade if you have completed the course **OR** indicate if you are currently enrolled:

**This is a COMPETITIVE ENTRY program. Minimum Grades *DO NOT* Guarantee Admission.**

<b>BIOL 205</b> _____	<b>ENGL 101</b> _____	<b>HEAL 103 or READ 110</b> _____
4 transfer credits	3 transfer credits	2 or 1 transfer credit(s)

<b>MATH 122 or MATH 123</b> _____	<b>PHSC 101</b> _____	<b>PSYC 201</b> _____
4 transfer credits	4 transfer credits	3 transfer credits

My signature verifies that I have met all requirements for application to the MRI Program; read and understand the Technical Standards for Admission and the Technical Standards and Functions documents; MRI Admission Process (pages 2, 3, 4, 5, 6, 7, & 8) and my admissions file is complete.

Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name \_\_\_\_\_

**Application must be submitted directly to:**

Lake Michigan College  
Health Sciences Office - C327  
2755 E Napier Avenue  
Benton Harbor, MI 49022  
[healthsciences@lakemichigancollege.edu](mailto:healthsciences@lakemichigancollege.edu)  
Fax number: 269-927-8186

**APPLICATION and TRANSCRIPT RECEIPT DEADLINE:**  
**February 1st** for a 2019 summer semester program start

## **ASSOCIATE IN APPLIED SCIENCE – MRI PROGRAM ADMISSION PROCESS**

Lake Michigan College and the Health Science Department are pleased that you are interested in the Associate in Applied Science – MRI program. The selection process was established to enhance student success in the MRI curriculum and passing scores on the American Registry of Radiologic Technologist national certification exam (ARRT).

### **Application Procedure – ALL Applicants Must:**

1. Submit a Lake Michigan College application
2. Submit a completed Lake Michigan College MRI Program application form. This application must be directly submitted to the Health Sciences Office.
3. Be a high school graduate or successfully complete the GED test.
4. Forward to the Lake Michigan College Records Department ALL official transcripts from colleges previously attended. It is your responsibility to confirm that your transcripts are on file. (Please allow 8-10 weeks for transcripts to be processed. All transcripts **MUST** be received by the application deadline. Failure to have all transcripts submitted on time to LMC may result in an incomplete MRI application).
5. Meet the Technical Standards for Admission to the Health Science Department and the Technical Standards and Functions required for the MRI program.

### **Application Requirements for the MRI Program**

The Magnetic Resonance Imaging (MRI) program trains students to become a Magnetic Resonance Imaging (MRI) Technologist. You will obtain clinical experience at local healthcare facilities in addition to online instruction. Upon successful completion of the MRI program, students are eligible to take the ARRT exam. Satisfactory completion of the ARRT exam allows the MRI technologist to use the initials R.T. (MR).

### **Admission Process and Requirements for the MRI Program**

1. Students must have completed all prerequisite course work with a final grade of 2.0 or better in each course.

*The following prerequisite courses are required:*

- BIOL 205 – Human Anatomy
- ENGL 101 – English Composition
- HEAL 103 **or** READ 110 – Medical Terminology
- MATH 122 **or** MATH 123 – Intermediate Algebra or Quantitative Reasoning
- PHSC 101 – Physical Science: Chemistry and Physics
- PSYC 201 – Introduction to Psychology

While in the program, all MRI courses must be completed with a minimum GPA of 2.0 to be considered passing.

2. All applicants' academic records are evaluated using a numerical point system. Entry into the MRI program is competitive and based on total points from the grades earned in prerequisite coursework and previous healthcare experience. If a prerequisite course (see page 5) is not completed when the application is submitted, the applicant is not eligible for the 2019 Magnetic Resonance Imaging program.
3. Applicants' overall GPA from Lake Michigan College will be used in the application review process. A minimum GPA of 2.5 is required for consideration to the MRI program.
4. Applicants who hold an Advanced Placement (AP) exam score in any of the required classes will be subject to an equivalency scale for that specific course. This allows points to be applied appropriately following the points scale of the application. The following letter grade equivalent listed does not award a letter grade on your transcript, and is used only for the review and processing of your program application.

AP Exam Score	Letter Grade Application Equivalent
5	A
4	B
3	C
2	D ( <i>not applicable</i> )
1	E ( <i>not applicable</i> )

5. Applicants seeking bonus points as noted on page 5 **must** submit documentation for any bonus points to be considered. A professional letter of reference or documentation must be submitted with your application to be granted bonus points for direct patient care experience. Work experience must be independent employment that provides hands-on care to patients. Some examples are: nurse aide, phlebotomy tech, medical assisting, assisting physicians with procedures in a professional setting, taking blood pressures and vital signs, transporting patients on stretchers or wheelchairs, etc. Copies of any healthcare certification, registration, or licensure must be submitted with your application in order to be considered for bonus points. Job shadows, observation hours, and clinical hours from prior programs will not be considered for points. CPR certification is a program requirement upon acceptance (see page 4), and will not be considered for bonus points.
6. All clinical sites will be arranged and confirmed by the Health Sciences Office prior to students receiving acceptance notifications. The clinical site is a third-party entity into which students are placed for practical experience. LMC cannot guarantee that a clinical site will always be available. Arrangement for such a site depends upon the college's ability to enter into formal agreement with a proposed site. Students should not rely upon the availability of a clinical site in a particular geographical location. All MRI clinical practicum courses are subject to special scheduling dates which may not follow traditional college semester calendars.

While LMC uses its best efforts to negotiate clinical sites, even after they become available they can become unavailable for reasons beyond the control of LMC and in that event LMC has no liability. No one at LMC has authority to modify the conditions and information outlined in this application other than in writing signed by the Dean of Health Sciences.

7. Based on the number of seats available, only those applicants with the highest total combined scores of the academic evaluation and/or healthcare experience will be accepted.
8. All accepted applicants will be required to submit a completed statement of health/physical condition. The completed physical statement needs to include: medical history, physical exam results, and immunizations. This statement must be received by the Health Sciences Office prior to any MRI student beginning their clinical education.
9. All accepted MRI students must submit proof of Hepatitis B vaccination or a signed waiver.
10. LMC does not provide criminal background checks, drug screens, health physicals, and/or any required vaccinations.
11. All accepted MRI students must complete a drug screen and criminal background check, as required by the agreements LMC has with clinical sites. These checks must have been completed no longer than six months prior to the beginning of this first clinical rotation. The cost for the drug screen and criminal background check is the responsibility of the student and facilitated through a vendor designated by LMC. The completed reports (with no active exclusions reported) must be received by the LMC Health Sciences Office prior to any MRI student beginning his/her clinical rotation.

*Admission process is nondiscriminatory in regards to age, color, height, weight, creed, disability, marital status, sexual orientation, national origin, political affiliation, race, religion, or gender identity or expression.*

#### **Acceptance Process**

1. The order of acceptance of qualified applicants will be based on points achieved. All prerequisites will be completed before an applicant can begin the MRI program.
2. If more than one qualified applicant achieves the same score in the Point System for the last remaining spot, the applicant with the highest overall LMC grade point average will be selected.
3. If you are not offered a space in the program you have applied for and wish to be reconsidered for next year, you must re-submit another Program Application Form for that program year. Your application will **NOT** automatically be rolled over.
4. Upon acceptance to the MRI program, an applicant must complete the Health Certification Form and obtain Professional Level CPR certification. The BLS Provider **or** CPR for Professional Rescuer are acceptable levels of CPR for the MRI program. CPR certification **MUST** be maintained and current while in the MRI program.
5. Notification of the applicant's status in the MRI program will be March 15th for the upcoming summer semester (May). If a student chooses not to accept his/her seat in the program for that year, he/she will need reapply for the next year and complete with the other applicants for that year.

**LMC MRI Program Admission Process – Point System**

The selection process will be based on the following point system. The number of students selected for the MRI program is determined by how many clinical sites are available to host the LMC Student(s).

<b>Academic Criteria</b>	<b>Possible Points</b>
<ul style="list-style-type: none"> <li>• <b>Previous Degree Earned – Bachelor or higher</b> <i>Please submit documentation of this degree with your application. Degree must be awarded or conferred prior to the program application deadline.</i></li> </ul>	Yes = 2 (Bonus Points)
<ul style="list-style-type: none"> <li>• <b>Direct patient care work experience</b></li> <li>• <b>Healthcare certification</b></li> <li>• <b>Completed Professional Health Careers Academy (PHCA)</b> <i>Please provide a professional reference that verifies experience, or a copy of certification/licensure/registry along with your application. See pg. 3 for more details.</i></li> </ul>	Yes = 3 (Bonus Points)
<p style="text-align: center;"><b>College GPA</b> <i>Students must have a minimum college GPA of 2.5 to be considered for program entry.</i></p>	2.5 = 1 3.0 = 2 3.5 = 3 4.0 = 4
<b>Prerequisite Courses (minimum grade 2.0)</b>	
<ul style="list-style-type: none"> <li>• <b>PHSC 101</b> <i>Physical Science: Chemistry and Physics</i></li> </ul>	2.0 = 6 3.0 = 8 4.0 = 10
<ul style="list-style-type: none"> <li>• <b>BIOL 205</b> <i>Human Anatomy</i></li> </ul>	2.0 = 6 3.0 = 8 4.0 = 10
<ul style="list-style-type: none"> <li>• <b>HEAL 103 / READ 110</b> <i>Medical Terminology</i></li> </ul>	2.0 = 3 3.0 = 5 4.0 = 7
<ul style="list-style-type: none"> <li>• <b>MATH 122 / MATH 123</b> <i>Intermediate Algebra or Quantitative Reasoning</i> <i>Students must take Algebra Proficiency exam (score of 75% or higher) if math course is older than 5 years.</i></li> </ul>	2.0 = 4 3.0 = 6 4.0 = 8
<ul style="list-style-type: none"> <li>• <b>ENGL 101</b> <i>English Composition I</i></li> </ul>	2.0 = 1 3.0 = 3 4.0 = 5
<ul style="list-style-type: none"> <li>• <b>PSYC 201</b> <i>Intro to Psychology</i></li> </ul>	2.0 = 1 3.0 = 3 4.0 = 5
<b>Total Possible Points</b>	<b>54</b>



### Technical Standards for Admission

#### Health Science Department

The Health Science Department faculty has specified the following non-academic criteria which applicants generally are expected to meet in order to participate in the Health Sciences programs and professional practice. These technical standards are necessary and essential and have been developed to provide for the health and safety of the patients receiving care from the Health Sciences Department students.

**OBSERVATION** – The applicant must be able to participate in all demonstrations, laboratory exercises, and clinical practicum in the clinical component, and to assess and comprehend the condition of all patients assigned for examination diagnosis and treatment.

**COMMUNICATION** – The applicant must be able to communicate with patients to effectively elicit patient compliance, understand and assess non-verbal communications, and be able to effectively transmit information to patients, physicians, paraprofessionals, faculty, and staff in a timely way.

**PSYCHOMOTOR** – The applicant must have motor functions sufficient to elicit information from patients by appropriate diagnostic or therapeutic maneuvers; be able to perform basic tasks; possess all necessary skills to carry out diagnostic or therapeutic procedures; be able to interpret movements reasonably required to provide general care and emergent treatment/actions as necessary for patient safety and comfort.

**INTELLECTUAL/ CONCEPTUAL, INTEGRATIVE, AND QUANTITATIVE ABILITIES** – The applicant must be able to measure, calculate, reason analyze, evaluate, and synthesize information and observations. Problem solving, the critical skill demanded of health science practitioners, requires all of these cognitive abilities.

**BEHAVIOR AND SOCIAL ATTRIBUTES** – The applicant must possess the emotional health required for full utilization of intellectual abilities; execute appropriate medical judgment; the prompt completion of assigned or non-assigned responsibilities for care of and service to the patient; and the development of supportive and effective relationships with patients. Applicants must be able to tolerate physical and mental workloads, function effectively under stress, adapt to changing environments and conditions, display flexibility and function in the face of uncertainties inherent in the clinical setting and with patients. Compassion, integrity and concern for others, interest and motivation are personal qualities each applicant should possess.



**Technical Standards and Functions Required for Successful  
Completion of Degree Program in Magnetic Resonance Imaging (MRI)**

<b>Standards</b>	<b>Functions</b>
Vision sufficient to differentiate shades of grey and color and to observe diagnostic real-time images. Vision sufficient to delineate ill-defined structures, borders, anatomical structures, and pathological entities in a three-dimensional projections.	Scanning with real-time MRI system for the purpose of delineating normal anatomical structures from abnormal pathological entities.
Vision sufficient to be able to read and accurately complete reports and charts.	Reading and completing of charts, reports and interpretation of requisitions.
Speech sufficient to be understood by others; ability to understand the communication of others.	Communicating with patients and other health care professionals.
Hearing sufficient to perform job duties.	Communicating with patients, and other health care professionals
Vision and physical condition sufficient to perform scanning tasks accurately, efficiently, and safely.	Manipulating of MR machine while observing real-time image and conducting diagnostic study.
Sufficient fine motor functions and coordination to perform tasks involving instrument panels, patient position, and safety.	Obtaining diagnostic real-time images for diagnostic interpretation.
Sufficient muscle strength, lower back and knee stability to handle patients in a safe manner.	Lifting and transferring of patients, physically assisting patients, moving and manipulation of MRI systems.
Sufficient psychological stability and knowledge of techniques/resources to be able to respond appropriately and efficiently in emergent situations in order to minimize dangerous consequences either patient-related or environment related.	Recognizing and desponding appropriately in emergency situations.
Ability to sit or stand for extended periods of time, up to 7-8 hours per day.	Scanning requires sitting or standing for extended periods of time.
Ability to learn technical, medical, and pathophysiological information.	Completion of clinical and didactic components of program requires ability to learn.

**Note**

You need to be able to perform each of these tasks with or without accommodation. If an accommodation is necessary because of a disability it is your responsibility to provide documentation and to request accommodation. The college will endeavor to satisfy requests for reasonable accommodations; however, it is not guaranteed.

## ASSOCIATE IN APPLIED SCIENCE - MAGNETIC RESONANCE IMAGING

### Prerequisites to Program Admittance and Course Sequence

	<u>Credits</u>	<u>Contact Hours</u>
<b><u>Prerequisite Courses</u></b>		
ENGL 101 English Composition	3	3
BIOL 101, or BIOL 110, or BIOL 111, or BIOL 112	4	5 or 6
BIOL 205 Human Anatomy	4	5
HEAL 103 or READ 110 Medical Terminology	1 or 2	2
MATH 122 or MATH 123 Intermediate Algebra or Quantitative Reasoning	4	4
PHSC 101 Physical Science: Chemistry & Physics	4	5
PSYC 201 Introduction to Psychology	3	3
<b><u>Summer (1st Year)</u></b>		
ENGL 102 or ENGL 103 or COMM 101	3	3
MRIT 100 Preclinical Preparation	3	3
MRIT 101 Professional Prospectus	1	1
MRIT 114 Applied Sectional Anatomy	3	3
<b>Semester Total</b>	<b>10</b>	<b>10</b>
<b><u>Fall (1st Year)</u></b>		
MRIT 102 MRI Procedures and Pathophysiology I	3	3
MRIT 103 MRI Physics I	3	3
MRIT 105 Clinical Experience I	3	3
MRIT 115 Computer Applications in Medical Imaging	3	3
<b>Semester Total</b>	<b>12</b>	<b>12</b>
<b><u>Spring (1st Year)</u></b>		
MRIT 106 MRI Procedures and Pathophysiology II	3	3
MRIT 107 MRI Physics II	3	3
MRIT 108 Image Analysis	3	3
MRIT 109 Clinical Experience II	3	3
<b>Semester Total</b>	<b>12</b>	<b>12</b>
<b><u>Summer (2nd Year)</u></b>		
MRIT 111 Clinical Experience III	3	3
MRIT 113 Registry Review	3	3
Humanities/Fine Arts Course*	3	3
<b>Semester Total</b>	<b>12</b>	<b>12</b>
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<b>Program Total</b>	<b>66</b>	<b>70</b>

*\* Satisfied by PHIL 102 or any three-credit or higher course in ART, DRAM, FORL, HUMN, MUSI, PHIL or 200-level ENGL.*