

I _____ **DID** _____ **DID NOT** meet with the Sonography Program Director for mandatory pre-application advising.

NAME _____ **LMC STUDENT ID NUMBER** _____

ADDRESS _____

CITY _____ **STATE** _____ **ZIP** _____

PHONE _____ **DATE OF BIRTH (MM/DD/YYYY)** _____

EMAIL ADDRESS _____

EACH APPLICANT MUST COMPLETE THE FOLLOWING:

- ✓ Complete a Lake Michigan College Application – www.lakemichigancollege.edu/apply
- ✓ Submit official copies of ALL non-LMC transcripts to the LMC Records Office for official Transfer Credit Evaluation
- ✓ Consult with an academic advisor before and/or while completing prerequisite coursework to review program requirements
- ✓ Complete all required prerequisite coursework
- ✓ Maintain a minimum overall College GPA of 2.50
- ✓ Complete **mandatory** pre-application advising appointment with the Sonography Program Director **by February 1, 2024**
- ✓ Submit program application and any additional documentation to Health Sciences Office by **February 1, 2024**

This is a COMPETITIVE-ENTRY program. Minimum grade requirements for all courses are listed on page 3 of this application. Minimum grades in prerequisite courses and minimum GPA do not guarantee admission.

WRITE THE LETTER GRADE EARNED FOR EACH COURSE BY WRITING IN THE BOXES BELOW.

You may also use the following: Currently Enrolled = CE; Transfer Credit = TR

Before application deadline:

BIOL 110
(4 credits)

MATH 122/123
(4 credits)

PHSC 101
(4 credits)

ENGL 101
(3 credits)

HEAL 103
(2 credits)

PSYC 201
(3 credits)

Before program start:

ENGL 102
(3 credits)

Humanities/Fine Arts Elective
(3 credits)

My signature verifies that I have consulted with an Academic Advisor before and/or while completing the program prerequisites for the current Sonography application cycle. Additionally, my signature confirms that I have read and understand the Sonography program and degree requirements, the application and admissions process; my Sonography program application file is complete.

SIGNATURE _____ **DATE** _____

PRINTED NAME _____

Submit application to:

Lake Michigan College, Health Sciences Office
 2755 E Napier Avenue
 Benton Harbor, MI 49022
Office Location: C-103
Email: healthsciences@lakemichigancollege.edu

APPLICATION DEADLINE
February 1, 2024

Lake Michigan College and the Health Sciences Department are pleased that you are interested in the Associate in Applied Science – Diagnostic Medical Sonography program. The selection process was established to enhance student success in the Sonography curriculum and passing scores on the American Registry for Diagnostic Medical Sonography national certification exam (ARDMS).

Students seeking Advanced Standing or Transfer from another Sonography program: Lake Michigan College **does not** offer an advanced standing or transfer-in pathway for Diagnostic Medical Sonography. Students must complete all listed prerequisites and apply to the program as a first-time applicant. Admission to this program is competitive. Preference **will not** be given to students who have prior Sonography program or imaging work experience. If selected for admission, students will start the program at the beginning and complete the curriculum as written.

In order to be eligible for consideration, ALL applicants MUST:

1. Submit a Lake Michigan College application at www.lakemichigancollege.edu/apply.
2. Be a high school graduate or successfully complete the GED test.
3. Forward ALL official transcripts from colleges previously attended other than LMC to the Lake Michigan College Records Office. It is your responsibility to confirm that your transcripts are on file with the Records Office. All transcripts **MUST** be received by the application deadline; students are encouraged to send up-to-date transcripts as early as they are available. Please allow 8-10 weeks for official transcripts to be evaluated. Failure to have all transcripts submitted on time to LMC may result in an incomplete Sonography application.
4. Complete all prerequisite courses with the minimum grade requirements by the posted application deadline.
5. Complete or be enrolled in pre-program courses during the semester prior to program start: ENGL 102 and Humanities/Fine Arts. All pre-program courses must be completed before starting the Sonography program.
6. Meet the Technical Standards for Admission to the Health Science Department and the Technical Standards and Functions required for the Sonography Program.
7. Be at least 18 years of age or older when they begin the Sonography program.
8. Meet with the Sonography Program Director for a pre-application advising appointment.
9. Submit a complete Lake Michigan College Sonography Program application form by the posted application deadline. This application must be directly submitted to the Health Sciences Office: in person, via fax, via US Post, or via e-mail (very clear cellphone pictures are accepted via e-mail).

Lake Michigan College's Diagnostic Medical Sonography program is designed to prepare students to become a Sonographer. You will obtain clinical experience at local healthcare facilities in addition to formal classroom instruction. Upon successful completion of the Sonography program, students are eligible to take the ARDMS exam. Satisfactory completion of the ARDMS exam allows the sonographer to use the initials RDMS, Registered Diagnostic Medical Sonographer.

For more information on program and registry examination eligibility, please see the LMC Sonography Program Webpage at <http://www.lakemichigancollege.edu/ultrasound>, or visit the ARDMS website.

1. Students must have completed all prerequisite course work with a final grade of “C” or higher in each course.

The following prerequisite courses are required:

- BIOL 110 – Human Anatomy and Physiology
- ENGL 101 – English Composition
- HEAL 103 – 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 Sonography (DMSO) courses must be completed with a minimum final grade of 77% to be considered passing.

2. All applicants’ academic records are evaluated using a numerical point system. Entry into the Diagnostic Medical Sonography program is competitive and based on total points from the grades earned in prerequisite coursework and previous healthcare experience. If a prerequisite course (page 6) is not completed when the application is submitted, the applicant is not eligible for the Diagnostic Medical Sonography program.
3. A minimum GPA of 2.50 is required for consideration to the Diagnostic Medical Sonography program. By default, applicants’ overall GPA from Lake Michigan College will be used in the application review process. If student have transfer credit from another institution, but any of the required prerequisite courses have been taken at Lake Michigan College, the Lake Michigan College GPA will be used. If no applicable prerequisite ranking courses have been taken at Lake Michigan College, the transfer college GPA from the college at which most of the applicant’s prerequisite courses were completed will be used.
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. Additional points may be awarded for completion of specific criteria. Applicants seeking additional points as noted on page 6 **must** submit documentation for any additional points to be considered. A letter of reference from an employer verifying work direct patient care work experience or other documentation must be submitted with your application to be granted additional points. 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. Letters verifying work experience and/or copies of any healthcare credential, registry, or licensure must be submitted with your application in order to be considered for additional points.

Job shadows, observation hours, and clinical hours from prior programs will not be considered for additional points, unless they are part of the Professional Health Careers Academy (PHCA). CPR certification is a program requirement

(page 6) for ALL admitted students and will not be accepted for additional points. Students who participated in PHCA or a similar healthcare academy must provide documentation or transcripts showing completion of required coursework.

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 Sonography 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 points of the application review 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 Sonography student beginning their clinical education.

All accepted Sonography students will be required to submit proof of freedom from communicable diseases through vaccination or a titer test (as applicable): MMR, Varicella, Tdap, Hepatitis B, COVID-19, and annual Influenza. Annual tuberculosis (TB) testing is also required.

9. All accepted Sonography students must complete a drug screen and criminal background check, as required by the agreements LMC has with clinical sites. 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 Sonography student beginning their program classes. LMC does not provide criminal background checks, drug screens, health physicals, and/or any required vaccinations.

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 Sonography student beginning their clinical rotation. The background check and drug screen will be completed by the student through a College-specified vendor AFTER admission, prior to program Orientation.

The 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.

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 Diagnostic Medical Sonography 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 (GPA) 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 Sonography program, an applicant will receive an acceptance letter via e-mail. This will detail the remaining requirements admitted students must complete prior to starting program classes. Admitted students must complete a background check, drug screen, vaccinations, TB testing, a physical exam using the LMC Health Certification form, and obtain professional level CPR certification. Basic Life Support (BLS) Provider through American Heart Association **or** Red Cross are acceptable levels of CPR for the Sonography program. CPR certification **MUST** be maintained and current while in the Sonography program. Fully online courses are not accepted. CPR is a requirement of all Sonography students admitted to the program and does not earn additional points in the application review process.
5. Notification of the applicant's status in the Diagnostic Medical Sonography program will be **March 15, 2024** for the May 2024 Cohort. If a student chooses not to accept their seat in the program for that year, they will need to reapply for the next year and compete with the other applicants for that year. All notifications from the Health Sciences Office will be sent to students' LMC e-mail address, and their personal e-mail address on file with the College.
6. Students should keep their contact information up to date in WaveLink and should inform the Health Sciences Office of any changes. If the Health Science Office is unable to contact a student related to placement into the Sonography program, a student may have to forgo placement that year after reasonable attempts have been made to contact the student.

The selection process will be based on the following point system. The number of students selected for the Sonography program is determined by how many clinical sites are available to host Lake Michigan College Sonography students.

Criteria for Additional Points	Possible Points
Previous degree earned – bachelor level or higher Please submit documentation of this degree with your application. Degrees must be awarded or conferred prior to the program application deadline.	Yes = 2 (additional points)
Direct patient care work experience or healthcare credential OR Completed Professional Health Careers Academy (PHCA) Please provide a professional reference that verifies experience or a copy of a credentialing document(s) with your application. See pg. 3 for more details.	Yes = 3 (additional points)
Required Prerequisite Class Criteria (<i>minimum grade of "C"</i>)	Possible Points
BIOL 110 Human Anatomy & Physiology	C or C+ = 6 B- or B or B+ = 8 A- or A or A+ = 10
ENGL 101 English Composition I	C or C+ = 1 B- or B or B+ = 3 A- or A or A+ = 5
HEAL 103 Medical Terminology	C or C+ = 3 B- or B or B+ = 5 A- or A or A+ = 7
MATH 122 / MATH 123 Intermediate Algebra or Quantitative Reasoning <i>Students must take Algebra Proficiency exam (score of 75% or higher) if their math course was completed 5 years ago or more.</i>	C or C+ = 4 B- or B or B+ = 6 A- or A or A+ = 8
PHSC 101 Physical Science: Chemistry and Physics	C or C+ = 6 B- or B or B+ = 8 A- or A or A+ = 10
PSYC 201 Intro to Psychology	C or C+ = 1 B- or B or B+ = 3 A- or A or A+ = 5
GPA Requirement	Possible Points
College GPA Students must have a minimum cumulative college GPA of 2.50 to be considered for program entry.	2.5 = 1 3.0 = 2 3.5 = 3 4.0 = 4
Total Possible Points	54

Before the first semester of the DMSO program, all students must complete ENGL 102 English Composition II and a Humanities/Fine Arts course with a "C" or higher.



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 Diagnostic Medical Sonography**

Standards	Functions
Ability to evaluate sonograms in order to acquire appropriate diagnostic information.	Uses cognitive sonographic skills to identify, record, and adapt procedures as appropriate to anatomical, pathological, diagnostic information and images.
Ability to use independent judgment to acquire the optimum diagnostic sonographic information to the attending physician.	Performs diagnostic medical sonographic examinations as ordered by the attending physician.
Ability to integrate diagnostic sonograms, laboratory results, patient history, and medical records, and adapt sonographic examination as necessary.	Analyzes sonograms, synthesizes sonographic information and medical history, and communicates findings to the appropriate physician.
Addresses problems of patient care as they arise and makes decisions to appropriately resolve the problem.	Assumes responsibility for the safety, mental and physical comfort of patients while they are in the sonographer's care.
Ability to effectively operate sonographic equipment.	Manipulating of transducer while observing real-time image and conducting diagnostic study.
Sufficient fine motor functions and coordination to perform tasks involving manipulation of scan probes, 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 ultrasonography 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.

Prerequisite Courses (before you apply)	Credit Hours	Contact Hours
ENGL 101 English Composition	3	3
BIOL 110 Human Anatomy & Physiology	4	5
HEAL 103 Medical Terminology (1 credit READ 110 accepted)	1 or 2	2
MATH 122 Intermediate Algebra OR MATH 123 or Quantitative Reasoning	4	4
PHSC 101 Physical Science: Chemistry & Physics	4	5
PSYC 201 Introduction to Psychology	3	3
Pre-Program Courses (before you start the program)		
ENGL 102 English Composition	3	3
Humanities/Fine Arts elective*	3	3
Prerequisite and Pre-Program Course Total		25 or 26
		28
Summer (Semester 1)		
DMSO 100 Introduction to Diagnostic Medical Sonography	3	3
Semester Total		3
		3
Fall (Semester 2)		
DMSO 101 General Sonography I Abdomen	4	4
DMSO 102 General Sonography I OB/GYN	4	4
DMSO 103 Sonography Lab Applications I	3	6
DMSO 203 Sonographic Physics I	3	3
DMSO 104 Clinical Experience A	2	2
Semester Total		16
		19
Spring (Semester 3)		
DMSO 200 General Sonography II Abdomen	3	3
DMSO 201 General Sonography II OB/GYN	3	3
DMSO 202 Sonography Lab Applications II	3	6
DMSO 204 Clinical Experience B	2	2
DMSO 213 Sonographic Physics II	3	3
Semester Total		14
		17
Summer (Semester 4)		
DMSO 214 Clinical Experience C	5	5
DMSO 224 Clinical Experience D	5	5
Semester Total		10
		10
Fall (Semester 5)		
DMSO 230 Introduction to Vascular Sonography & Lab Applications	4	5
DMSO 234 Clinical Experience E	3	3
DMSO 240 Sonographic Registry Review	2	2
Semester Total		9
		10
Major Course Total		52
Program/AAS Degree Total		77
		87

Please note that some late afternoon/early evening and weekend shifts may be assigned for clinical education experience.

* Satisfied by PHIL 102 or any three-credit or higher course in ART, COMM, DRAM, FORL, HUMN, MUSI, PHIL or 200-level ENGL. See your Academic Advisor for more details regarding acceptable coursework.