



**Admission to Summer Semester
April 1, 2012 Application Deadline**

ALLIED HEALTH & HUMAN SERVICES DEPARTMENT
DIAGNOSTIC MEDICAL SONOGRAPHY

Associate in Applied Science Degree
Curriculum Code 0790

GENERAL PROGRAM INFORMATION

The program prepares an individual to use ultrasonic equipment. The sonographer produces images to demonstrate body parts, and assist the physician in the diagnosis of medical abnormalities, using equipment with a high frequency sound wave (much like sonar). Graduates of the program will be eligible for examination by the American Registry of Diagnostic Medical Sonographers.

Once admitted to the Diagnostic Medical Sonography program (ultrasound) students will complete four sequential semesters of study leading to an Associate in Applied Science degree. Students are admitted in summer, with a limited number of seats available each year. As part of the educational training students receive hands-on experience from available clinical sites (hospitals/clinics).

The Diagnostic Medical Sonography (ultrasound) program is nationally accredited by:
Commission on Accreditation of Allied Health Education Programs (CAAHEP)
1361 Park Street
Clearwater, FL 33756
Phone: 727-210-2350 Fax: 727-210-2354
www.caahep.org

PROGRAM GOALS

The Diagnostic Medical Sonography Program Goals have been designed to incorporate and compliment Lansing Community College's vision and mission. The program goals represent the program mission and philosophy through the three key principles of professionalism, education, and service.

Professionalism:

1. Prepare a qualified diagnostic medical sonographer who is professionally and ethically competent to provide entry-level comprehensive patient-centered sonograms to a diverse population.
2. Promote an active interest and involvement in the professional association.

Education:

1. Maintain a selective admission program to ensure a diverse and qualified applicant pool who can integrate biomedical, clinical, and behavioral science course content from college core curriculum courses throughout the diagnostic medical sonography curriculum.
2. Provide participative classroom/lab instruction, in a respectful environment, through faculty who are competent in advanced teaching methodology, current content knowledge, and use of multimedia.
3. Sustain a program that promotes state of the art diagnostic medical sonography practice.

Service:

1. Serve as a community resource for knowledge and education in diagnostic medical sonography.
2. Provide service-learning opportunities to participate in collaborative community health promotion to a diverse population.

Within this framework, the faculty and administrators assume responsibility for planning, supervising, and evaluating selected learning experiences. These experiences are developed to meet established objectives, College requirements for Associate Degree in Applied Science, and eligibility to write the registry examination as established by the American Registry of Diagnostic Medical Sonographers.

Further, the faculty believes that sonography is a health service, shared with other health disciplines, which has a basic responsibility for promoting health, conserving life, and assisting the individual to achieve an optimum health status and self sufficiency. As a member of the patient oriented team, the sonographer utilizes basic knowledge and skills which contribute to patient care and diagnostic needs.

CRIMINAL BACKGROUND CHECK

Admission to the Diagnostic Medical Services (Sonography) Program will be denied if an individual is precluded from proving clinical privileges due to a criminal record pursuant to MCL 333.20173a.

Upon application to the program, further information will come in the form of a letter regarding a mandatory criminal background check which will be conducted on all students admitted to the Diagnostic Medical Sonography Program, prior to the start of fall semester. In addition, all admitted students must have a drug screen test prior to the start of their clinical placement. Students are responsible for the costs for both the criminal background check and drug screen test. The documentation process will be explained to all admitted students at the DMS Program orientation.

Conviction of a felony or a misdemeanor may preclude eligibility for admission. The following websites will provide detailed information:

<https://miltcpartnership.org/Default.aspx>
<https://miltcpartnership.org/Documents/LegalGuide.pdf>

Students may be denied admission to, or continuation in, the Diagnostic Medical Sonography program for any of the following reasons:

- A. Physical or emotional health, which indicates impairment in ability to provide safe care to the public.
- B. Conduct not in accordance with the standards of a registered diagnostic medical sonographer.
 1. has given false information or has withheld material information;
 2. has been convicted of, or pleaded guilty or nolo contendere to, any crime which indicated the individual as unfit or incompetent to practice, or that the individual has deceived or defrauded the public;
 3. has used any drug to a degree that interferes with his or her fitness to practice diagnostic medical sonography;
 4. has engaged in conduct which endangers the public health.

Learning disabilities affect students in different ways. Students may have difficulty remembering, understanding, and/or expressing information. Students may be weak in spelling, writing, math, reading, problem solving, organization, and time management. If a student feels they cannot meet the following guidelines, and feel they have a learning disability, they may contact the Office of Disability Support Services at (517) 483-1904 or 1207, or online at <http://www.lcc.edu/odss> to receive an appropriate accommodation.

MOTOR, COGNITIVE, and PSYCHOLOGICAL SKILLS ESSENTIAL FOR SONOGRAPHY STUDENTS

1. Essential motor skills required to meet the class and clinical practice outcomes are:
 - **STRENGTH:** Perform physical activities requiring ability to push/pull objects more than 100 pounds and to transfer objects of more than 100 pounds. There is emphasis on upper body strength.
 - **MANUAL DEXTERITY:** Perform simple motor skills such as standing, walking, handshaking; manipulative skills such as writing and typing, use of fine motor skills with both hands simultaneously; calibrating ultrasound equipment, adjusting film processors, and loading/unloading film magazines.
 - **COORDINATION:** Perform gross body coordination such as walking, filing, retrieving equipment; eye-hand coordination such as computer/keyboard skills, and arm-hand steadiness, such as taking blood pressure, catheterizing, and calibration of tools and equipment.
 - **MOBILITY:** Perform mobility skills such as walking, standing, bending; pushing portable equipment throughout the hospital; prolonged standing while completing procedures.
 - **VISUAL ABILITY:** See objects far away and to discriminate colors, see objects closely as in reading faces, dials, monitors, etc; viewing control panels and operate equipment under low overhead lighting.
 - **HEARING:** Hear normal sounds with some background noise from ultrasound control panels, computers, etc.; and to distinguish sounds.
2. Essential cognitive skills required to meet the class and clinical practice outcomes:
 - **CONCENTRATION:** Concentrate on details with moderate amount of interruptions, such as patient requests, doctor and staff requests, etc.
 - **ATTENTION SPAN:** Attend to task/functions for periods up to 60 minutes in length and to attend to task/functions for periods exceeding 60 minutes in length.
 - **CONCEPTUALIZATION:** Understand and relate to specific ideas, concepts, and theories generated and discussed simultaneously.
 - **MEMORY:** Remember task/assignments given to self and others over both short and long periods of time.
 - **CRITICAL THINKING:** Ability to make clinical judgment when working independently to obtain diagnostic images.
3. Essential psychological skills required to meet the class and clinical practice outcomes:
 - **INTERPERSONAL:** Interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds. Student must be able to establish rapport with patients, colleagues, faculty, and professional staff.
 - **COMMUNICATION:** Abilities sufficient for interaction with others in verbal and written form.

- **SUBSTANCE ABUSE:** Student does not use a Schedule I, II, or IV* drug; student does not use an amphetamine, narcotic, or any other habit-forming drug unless prescribed by a licensed medical practitioner. Students should declare-- (physician statement) if he/she takes Schedule IV drug. Examples of Schedule IV drugs include Valium, Xanax, Phenobarbital, and Rohypnol--commonly known as the "date rape" drug. *Students who test positive for Schedule I, II, or Rohypnol will be subject to expulsion from the Diagnostic Medical Sonography program.
- **STRESS:** Requires working with patients who may be very young or old, critically ill or injured, or mentally or physically deficient/impaired; working with a constantly changing staff, resident physicians, and medical students.

ENVIRONMENTAL CONDITIONS

As a student you may be exposed to a variety of substances within the clinical sites such as exposure to ionizing radiation; exposure to blood, body tissues, or fluid; dust; chemicals used to process radiographic film; high humidity; loud or unpleasant noises; low or high temperatures. Upon acceptance into the program students will be required to take a mandatory online OSHA Blood-Borne Pathogen and Universal Precautions training session and will need current American Heart Association or Red Cross CPR for Healthcare Provider card for the duration of the program.

SELECTIVE ADMISSION REQUIREMENTS

April 1, 2012 Application Deadline

This is a selective admission program. In order to be considered as a candidate for this program, students must meet basic admission requirements beyond those required for admission to the College. Many of the courses for this program are open only to students officially admitted to the Diagnostic Medical Sonography Program.

All admission procedures are coordinated through the Enrollment Services Office, which has responsibility for distributing, receiving, and dating application forms. Therefore, any student desiring admission into this program should contact the Enrollment Services Office, (517) 483-1200, Gannon Building-Suite 203, **selective_admissions@lcc.edu**, to receive an application. The student may then contact the DMS Program Director or Clinical Coordinator for further information.

Students meeting basic admission requirements will be ranked for admittance into the program using a point value system. Points will only be awarded to students who meet the basic admission requirements at the time selection for students for admission is made.

The student applicant is responsible for providing verification of other information not contained in the current Lansing Community College official transcript.

READMISSION TO IDMS PROGRAM

Any student, who is dismissed from the DMS Program, may reapply for the next program year. If the student qualifies by meeting the required number of points to secure a seat for that program year he/she will be readmitted to the program at the discretion of the Program Director. This will only be allowed *once* for any student.

PHASE I – ADMISSION REQUIREMENTS

1. A complete application for selective admission must be submitted to Enrollment Services Office.
2. Have official transcripts sent from all colleges attended if you wish to transfer courses toward the sonography program at Lansing Community College. Official transcripts must be mailed directly from the college(s) attended to: Lansing Community College, 1121-Enrollment Services, P. O. Box 40010, Lansing, MI 48901-7210.
3. Completion of **BIOL 145 *or* BIOL 201 and 202* (Anatomy and Physiology)** with a grade of 2.5 or higher within eight (8) years of application deadline. (**BIOL 201 and 202 suggested for college transferability.*)
4. Completion of **PHYS 120 (Physics)** with a 2.0 grade or higher *or any college 3-4 credit physics* [this does not necessarily mean that LCC will give college transfer credit for other college physics courses. *For DMS and our national accrediting agency (CAAHEP) purposes **any** 3-4 credit college level physics with a 2.0 grade or higher will suffice.*]
5. Completion of **MATH 112 (Intermediate Algebra)** with a grade of 2.5 or higher, *or* successful completion of proficiency exam. (*Exam may be taken only once, at a cost of \$50.00.*)
6. Completion of **all required core courses with a grade of 2.5 or higher by December 31, 2011.** Spring grades are not included when calculating admission points for this program. All courses must be completed by the end of Fall Semester to be considered for Phase II Admission Ranking (including prerequisites, core courses, and additional point courses).
7. Evidence of good physical and mental health.
8. Applicants must complete the anatomy/physiology course(s) required for admission with a 2.5 grade or higher.
9. Applicants must have an overall GPA of 2.75 or higher for consideration for the DMS program.

PHASE II – ADMISSION RANKING

<p>1. Residency (Points are based on student's residency status at the start of spring semester of the year of application. See http://www.lcc.edu/schedule/pdfs/8_steps_brochure.pdf for residency policy.)</p> <ul style="list-style-type: none"> • Residency within the LCC district • All others (out-of district, out-of state, and international) 	<p>10 pts. 5 pts.</p>
<p>2. Work Experience with direct patient care. <i>Must be documented</i> from the supervisor of the department in which candidate had (work* or volunteer**) experience, with a letter on employer letterhead, signed, stating the start/end dates and description of job duties.</p> <ul style="list-style-type: none"> • 10 + years • 5 – 9 years • 1 – 4 years • Less than 1 year • Volunteer Work** 	<p>20 pts. 15 pts. 10 pts. 5 pts. 2 pts.</p>
<p>*Any hospital or nursing home **Volunteer work is defined as a minimum of 8 hours per month in a hospital, nursing home, medical care facility for a minimum of 90 days</p>	
<p>3. Graduate from an accredited Radiologic Technology Program.</p>	<p>15 pts.</p>
<p>4. Job Shadow – Must shadow in general sonography department (not Vascular or Echo). Provide signed documentation including date, facility, contact information and signature of sonographer that you shadowed.</p>	<p>2 pts.</p>
<p>5. Physics - PHYS 120, PHYS 200 or other 3-4 credit college physics with a 3.5 grade or higher</p>	<p>7 pts.</p>
<p>6. BIOL 201 AND BIOL 202 – with 3.0 grade or higher in each course <u>OR</u> BIOL 145 – with a 3.5 grade or higher</p>	<p>12 pts. 10 pts.</p>
<p>7. Post Secondary Degree – Associates, Bachelors or higher</p>	<p>10 pts.</p>
<p>8. Additional points will be given with successful completion (2.5 grade or higher) in the following courses:</p> <ul style="list-style-type: none"> • BIOL 121 Biology Foundation for Physiology; 4 credits • CHSE 114 Pathology-Allied Health; 3 credits • CHSE 120 Medical Terminology; 4 credits • CHSE 100 Introduction to Health Professions; 3 credits • CHSE 117 Health Law and Ethics; 2 credits • CHSE 136 EKG Technician; 2 credits 	<p>6 pts. 5 pts. 5 pts. 4 pts. 4 pts. 2 pts.</p>
<p>9. Cumulative GPA of prerequisites, additional point courses (see #8), and Lansing Community College's Core courses required for the DMS program. Current spring semester grades will NOT be calculated into GPA.</p> <ul style="list-style-type: none"> • 3.75 – 4.00 • 3.50 – 3.74 • 3.25 – 3.49 • 3.00 – 3.24 • 2.75 – 2.99 • 2.60 – 2.74 	<p>30 pts. 25 pts. 20 pts. 15 pts. 10 pts. 5 pts.</p>
<p>10. All prerequisites and college core courses completed at Lansing Community College</p>	<p>2 pts.</p>
<p>11. Qualified applicants who have applied without admission to the DMS Program.</p> <ul style="list-style-type: none"> • 3 applications without admission (3 denial letters from program) • 2 applications without admission (2 denial letters from program) 	<p>3 pts. 2 pts.</p>

MASTER CURRICULUM PLAN and APPROXIMATE COSTS
Diagnostic Medical Sonography – Associate Degree
 SUMMER SEMESTER 2012 ADMISSION

TUITION: Tuition is payable at the time of registration for each semester.	
CURRENT COLLEGE TUITION RATE (Per Billing Hour)	
College District Resident (in-district).....	\$ 79.00
Out-of-district.....	\$ 158.00
Out-of-state	\$ 237.00
International.....	\$ 276.00
Facilities Fee per Billing Hour (all students).....	\$ 5.00

SEMESTER	COURSE CODE	COURSE TITLE	CREDIT HRS	BILLING HRS	LEC HRS	LAB HRS	CLINIC HRS	TOTAL HRS	Ⓞ COURSE FEES
Pre-Requisites	BIOL 145	Introductory Anatomy/Physiology	4	5	48	32	0	80	\$ 40.00
	MATH 112	Intermediate Algebra	4	4	64	0	0	64	\$ 7.00
	PHYS 120 or 200	PHYSICS Requirement	4	5	48	32	0	80	\$ 35.00
		CORE Requirement	9-12	9-12	May vary				
Summer 2012	CHSE 120	Medical Terminology	4	4	32	0	0	32	\$ 45.00+
	IDMS 169*	Intro to Sonographic Scanning	2	3	16	32	0	48	\$ 324.00
	IDMS 200**	Sonographic Introduction	2	2	32	0	0	32	\$ 424.00
	IDMS 270	Sonographic Positioning I	2	4	0	64	0	64	\$ 614.00
Fall 2012	IDMS 201**	General Sonography I	4	4	64	0	0	64	\$ 310.00
	IDMS 202**	OB/GYN Sonography I	4	4	64	0	0	64	\$ 335.00
	IDMS 234**	Sonographic Physics	2	2	32	0	0	32	\$ 315.00
	IDMS 271	Sonographic Positioning II	1	2	0	32	0	32	\$ 391.00
	IDMS 280Ⓞ	Clinical Experience I	6	6	0	0	400	400	\$ 724.00
Spring 2013	IDMS 245**	Sonographic Instrumentation	2	2	32	0	0	32	\$ 315.00
	IDMS 265**	General Sonography II	4	4	64	0	0	64	\$ 315.00
	IDMS 266**	OB/GYN Sonography II	4	4	64	0	0	64	\$ 315.00
	IDMS 281Ⓞ	Clinical Experience II	7	7	0	0	472	472	\$ 680.00
Summer 2013	IDMS 282Ⓞ	Clinical Experience III	8	8	0	0	564	564	\$ 617.00
TOTALS			73-76	79-82	560	192	1,436	2,188	\$ 5,806.00

On campus IDMS classes (fall & spring semesters) are *typically* scheduled on Mondays.

*IDMS 169, Intro to Scanning is scheduled to meet on Friday.
 ** These courses are considered "Hybrid" (each course is taught 50% face to face and 50% online.)

- Ⓞ IDMS 280 3 days 17 weeks
- Ⓞ IDMS 281 4 days 17 weeks
- Ⓞ IDMS 282 5 days 14 weeks

ADDITIONAL COSTS (estimates):

Registration Fees (\$25/semester) \$ 150.00
 Textbooks \$800-1000.00
 Miscellaneous Costs*** \$200-1000.00
 Board Fees..... \$150-750.00

***Miscellaneous costs include: immunizations, physical, CPR, professional organizations, Board Reviews, uniforms, etc.

+ \$25.00 Additional Online Learning Course Fee

- Ⓞ Course fees are in addition to college tuition (effective fall 2011).
- Ⓞ Course start and end dates may differ from those of the normal college calendar

Estimated Costs
 (once accepted into program)

Tuition & Fees	\$10,428.00 - \$ 21,460.00
Additional Costs	\$ 1,250.00 - \$ 2,850.00
Total	\$ 11,678.00- \$ 24,310.00 ▲

1. Billing Hours x Tuition Rate = Tuition Due
2. Tuition and fees are payable at the time of registration for each semester.

*Costs are estimated and may vary yearly. Tuition rates, credit hours, billing hours, clinical hours, sequencing and course fees are subject to change by action of the LCC Board of Trustees.

▲ Lower amount is 56 billing hours (**does not include prerequisite courses**) at in-district tuition rate and lowest estimated additional costs. Higher amount is figured the same except using international tuition rates and highest estimated additional costs.

NOTE: Tuition rates, credit hours, billing hours, clinical hours, sequencing and course fees are subject to change by action of the LCC Board of Trustees.

Diagnostic Medical Sonography Frequently Asked Questions

1. **What makes Lansing Community College's DMS program different from other colleges?** Lansing Community College's Diagnostic Medical Sonography program is CAAHEP (College of Accreditation of Allied Health Programs) accredited.
2. **What does CAAHEP mean to a DMS graduate?** A student (other than an RT(R) or Bachelor Degree graduate) who graduates from a *non-accredited* DMS program must work for an additional 12 months before they are eligible to take the national registry boards (ARDMS.) For more qualification information for national board eligibility, log onto: www.ardms.org. Since its inception in 1975, the board results range between 50-79% for physics, abdomen and obstetrics/gynecology. Waiting an additional 12 months may not help with increasing the registry results, especially in physics. Some hospitals will only hire a sonography graduate from a CAAHEP-accredited program.
3. **When does the DMS program start? How often are candidates selected?** The DMS program admits students once a year. It is a 15-month program that starts each summer in June. The first semester (Summer I) students take three IDMS courses: **IDMS 169**, Intro to Sonographic Scanning - 1 credit/2 billing hrs; **IDMS 200**, Intro to Sonography - 2 credits/2 billing hours; **IDMS 270**, Sonographic Positioning I - 2 credits/2 billing hrs; and **CHSE 120**, Medical Terminology – 4 credits/4 billing hrs. **LCC may accept some other college's medical terminology courses.** This determination is made by Assessment Services at LCC at: (517) 483-5500. They will require that your official college transcript be sent to LCC.
4. **Is the program a full-time commitment?** Yes, students enter into the program in the summer and do not finish the program until the end of summer (September) the following year.
5. **Where are the clinical sites located?** Clinical sites vary each year due to hospital/clinic availability. The majority of clinical sites are within one (1) hour from LCC's main campus. However, some clinical sites are further and may require students to relocate. All sites are within a 200 mile radius of LCC.
6. **How often do students attend their clinical site?** The students are at their clinical site three (3) days per week from September to December, four (4) days per week January to May, and five (5) days per week from the end of May to early September. Students are on campus at LCC on Fridays from June to August (Summer I) and on Mondays from August to May.
7. **What if a clinical site would like to sponsor me as a student?** Because we are an accredited program, LCC will arrange all clinical site placements. You can have the hospital or ultrasound lab that would like to host you contact Jamia Dunckel (517-483-1412 or wilkin4j@lcc.edu) or Denise Drumm (517-483-1754 or drumm2@lcc.edu) to obtain information on how to become a clinical site. Sponsored students must have completed all college requirements (Phase I – Admission Requirements) for admission into the DMS program.
8. **What are the prerequisite requirements to get into the sonography program?** They are: **a) BIOL 145 OR BIOL 201 AND BIOL 202** (anatomy/physiology); **and b) PHYS 120** (or any 3-4 credit physics course) **and c) MATH 112 and d) LCC College Core requirements.**
9. **What if I completed BIOL 201 and BIOL 202 instead of BIOL 145?** Either BIOL 201/202 **OR** BIOL 145 with a 2.5 grade or higher is accepted for the DMS program. The DMS program grants additional points toward the selective admission program for a 3.5 grade or higher in BIOL 201 **AND** 202 **OR** BIOL 145.
10. **How many students per year does the ultrasound program accept?** We have clinical seats for approximately 24-28 students per year.
11. **What if I have two (2) classes that meet an area of Core?** The class with the highest grade will be used to calculate your GPA for purposes of the Phase II Admission Ranking.

12. **What if I already have a degree; does it waive LCC CORE requirements?** Yes, having an Associate's degree or higher will waive college core classes. Grades associated with those classes will be used to figure GPA in the Phase II Admission Ranking. Students must still take MATH 112, BIOL 145 OR BIOL 201 AND BIOL 202 and college physics.
13. **What if I already have a Bachelor's Degree?** If you have a Bachelor's degree or higher, you will need to take the following prerequisites: **a)** BIOL145 **and b)** any college level Physics course-3-4 credits. You must obtain a 2.5 grade or higher in BIOL 145 (anatomy/physiology) and a 2.0 grade or higher in Physics; **and c)** MATH 112.
14. **How do I know if courses will transfer to LCC as prerequisites?** Your **official** college transcripts must be mailed directly from each of your prior college(s) to the Registrar's office at: Lansing Community College 1121A-Registrar's Office, PO Box 40010, Lansing, MI 48901-7210. (517) 483-1200 or (800) 644-4522 x1200.
15. **When should I apply for the sonography program?** Our deadline for application is **April 1st** annually. Spring grades are not included when calculating admission points for this program. All courses must be completed by the end of the previous fall semester to be considered for Phase II Admission Ranking (including prerequisites, Core courses, and additional point courses). There are no exceptions for outstanding high school or college transcripts received postmarked after April 1st of the year the student is applying for admission.
16. **I am a current LCC student. How do I apply?** You will need to complete a second LCC application called a "selective admissions" application. You may obtain this application by contacting the Enrollment Services Office, Gannon Building, Suite 203, (517) 483-1200 or via email at selective_admissions@lcc.edu.
17. **I am not yet an LCC student. How should I apply?** You can apply to Lansing Community College online at: www.lcc.edu and type in "application" under "key word search." Remember to complete the 2nd LCC "selective admissions" application for Diagnostic Medical Sonography (DMS).
18. **What does the Admission Committee look for in a DMS applicant?** All admissions are based on the Phase I and Phase II process. You may obtain more information on this process by logging onto: www.lcc.edu and under the keyword search type "sonography." You will also find the curriculum (curriculum code 0790 Associate in Applied Science Degree, Diagnostic Medical Sonograph) from there.
19. **What happens in the event of a tie?** In the Phase II Admission Ranking process if there is a tie between students then the college looks at the oldest date of application and will offer that student the seat in the program.
20. **How does one get credit for an Associate Degree?** It is the student's responsibility to apply for an Associate degree in order to be granted the additional points toward the selective admissions process. These forms are available in the Registrar's office of the Gannon Building. Students must take 20 credits at Lansing Community College in order to qualify for an Associate Degree from the college.
21. **What if I have credits toward an Associate Degree from another college?** If LCC gives a student credit for a transferring course, these credits can apply toward an Associate Degree. However, **the student must complete at least 20 credits at Lansing Community College** in order to get a LCC Associate Degree. If the student has 45-50+ credits at another community college, they would benefit from inquiring about the "Application for Associate Degree" policy of that outside college to see if they qualify for an (non-Lansing Community College) Associate Degree.
22. **Why are there "optional courses" available?** These courses are not required for consideration for the DMS program. However, they are very beneficial courses and may enhance a student's education in the health career as well as give additional points toward the selective admissions process.
23. **How much does the program cost?** You can find the current tuition and fees on page 7 of this guide, plus the cost of books and clinical uniforms. Tuition and fees are subject to change at any time by the LCC Board of Trustees.

24. **How can I apply for financial aid?** You may find more information by visiting the LCC website at: www.lcc.edu and typing in under keyword “financial aid.”
25. **Is there any assistance for a single parent or displaced homemaker?** Yes, we have an excellent resource in our Women’s Resource Center. They are on the LCC webpage, or you may reach them at: (517) 483-1199. Single students and male students should also apply at the Women’s Resource Center.
26. **Why does it matter when I apply for the DMS program?** In the event of a tie during the Phase II Admission Ranking process, the student who has the oldest date of application will be given the seat over an applicant with more credentials. Applicants should have their application in 30 days prior to April 1st and may want to send their application certified, return-receipt or overnight to obtain proof of delivery.
27. **Can I apply to more than one program within Lansing Community College?** Yes, students may apply and have their prerequisites monitored for multiple Selective Admission Programs.
28. **What can I do to gain additional points toward the selective admissions process?** The students will be ranked according to the semester they qualify in, and then will be ranked according to prior credentials, grade point average, and work or volunteer experience in the medical field. Students who obtain a 3.5 grade or higher in physics and anatomy/physiology will be given additional points. Also, those students who complete the optional courses (see page 6, #8 of this advising guide) with a 2.5 grade or higher will be given additional points toward the selective admissions process.
29. **Why do you give additional points in the selective admissions process for previous medical experience or hospital volunteer experience?** It makes sense that those students who have had previous medical experience (including volunteering) may have an advantage in the program over those who have no experience. This also gives the candidate an opportunity to see if the medical field is a good fit for them, and if this is something they really want to devote their time and education toward. Sometimes, when a student volunteers, for example, they realize that they are not interested in this field, or they find out that they don’t enjoy being around patients who are ill.
30. **Can I work while completing the sonography program?** We do have students who work on a part-time basis. The DMS program is an intense program, so we do not recommend a student work even part time, especially during the fall semester. We have had students who do work, but they have excellent study habits and a great support system at home that enables them to do so successfully.
31. **How does my GPA figure into the selective admission DMS process?** We look at the student’s GPA for all LCC courses (Core and optional), and we give additional points to a 3.5 grade or higher in anatomy and physiology and physics. Those students who do well—especially in anatomy and physiology typically do well in the field of diagnostic medical sonography and on the national registry boards—www.ardms.org.
32. **Is there a waiting list to get into the sonography program at LCC?** We **do not** keep a waiting list from year to year. Admission is based on a competitive point ranking system, if a student applies to the program and is not accepted, they must contact the Selective Admissions Office to carry over their application for consideration, or to re-apply for the next year by April 1.
33. **Should I job shadow in the field of general sonography before applying to the program?** This is an excellent idea and we do recommend it. By doing this, the student is exposed to what the real life situation is in the ultrasound department, and what sonography really entails. This is a great way to help a student decide if this is really the field, and the fit, for them career-wise.
34. **What are the qualities that a student should have to be a good sonographer?** The sonographer performs clinical assessment and diagnostic sonography exams. The sonographer uses cognitive sonographic skills to identify, record, and adapt procedures as appropriate to anatomical, pathological, diagnostic information, and images. He/she uses independent judgment during the sonographic exam to accurately differentiate between normal and pathologic findings, and analyses sonograms, synthesizes sonographic information and medical history, and communicates findings to the appropriate physician. The sonographer also assumes responsibility for the safety, and mental and physical comfort of patients while they are in the sonographer’s care.

35. **What is a sonographer?** A Diagnostic Medical Sonographer is a Diagnostic Ultrasound Professional that is qualified by professional credentialing and academic and clinical experience to provide diagnostic patient care services using ultrasound and related diagnostic procedures.
36. **What are some of the skills necessary to be a sonographer?** The following is a list from the Society of Diagnostic Medical Sonography (www.sdms.org):
- Ability to integrate diagnostic sonograms, laboratory results, patient history and medical records, and adapt sonographic examination as necessary.
 - Ability to use independent judgment to acquire the optimum diagnostic sonographic information in each examination performed.
 - Ability to evaluate, synthesize, and communicate diagnostic information to the attending physician.
 - Ability to communicate effectively with the patient and the health care team, recognizing the special nature of sonographic examinations and patient's needs.
 - Ability to establish and maintain effective working relationships with the public and health care team.
 - Ability to follow established departmental procedures.
 - Ability to work efficiently and cope with emergency situations.
 - Ability to evaluate sonograms in order to acquire appropriate diagnostic information.
37. **What is the readmission policy for the DMS program?** If the student decides to leave the DMS program for any reason (medical/personal) and are in good standing in the program, they can submit a letter to the program requesting readmission and go through the Selective Admission process.
- If a student is dismissed or leaves the DMS program not in good standing they may submit a letter to the program requesting readmission. The DMS faculty will decide whether the request will be granted, and if granted the student will go through the Selective Admission process.
- If the student is dismissed from the program because of clinical reasons or for unprofessionalism they are not eligible for readmission.
38. **If I have other questions, whom should I contact?** You may contact the Diagnostic Medical Sonography Program at: (517) 483-1410.
39. **What are the job prospects for the field of sonography?** For more information on this, you may log onto: www.sdms.org. There is currently a national shortage for sonographers as there are in most health care professions and this shortage is expected for the next several years. Locally, there is *not* a shortage of sonographers currently. There are several accredited DMS programs within a 100 mile radius of Lansing so these area employers have greatly benefited from this pool of DMS graduates.

Need More Information?

Please view the website at <http://www.lcc.edu/health/sonography/> or contact:

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Diagnostic Medical Sonography Phase II Ranking Worksheet		Available Points	Your Points
Residency			
	In District	10	
	In State	5	
Work Experience in graduate area			
	10+ years	20	
	5-9 years	15	
	1-4 years	10	
	<1 year	5	
	Volunteer	2	
Graduate from accredited Radiologic Technology Program		15	
Job Shadow		2	
BIOL 201 and BIOL 202 - with 3.0 GPA		12	
BIOL 145 - with 3.5 GPA		10	
PHYS 120, PHYS 200 or other - with 3.5 GPA		7	
Associates, Bachelor Degree or higher		10	
Optional Courses			
	BIOL 121 - Biology Foundation for Physiology - 4 credits	6	
	CHSE 114 Pathology-Allied Health - 3 credits	5	
	CHSE 120 Medical Terminology - 4 credits	5	
	CHSE 100 - Intro to Health Professions - 3 credits	4	
	CHSE 117 - Health Law & Ethics - 2 credits	4	
	CHSE 136 - EKG Technician - 2 credits	2	
GPA	3.75 - 4.00	30	
	3.50 - 3.74	25	
	3.25 - 3.49	20	
	3.00 - 3.24	15	
	2.75 - 2.99	10	
	2.60 - 2.74	5	
All prerequisites and college core courses completed at LCC		2	
Qualified applicants who have applied without admission to DMS Program			
	3 applications	3	
	2 applications	2	
TOTAL POINTS			