

HEALTH & HUMAN SERVICE CAREERS DEPARTMENT
DIAGNOSTIC MEDICAL SONOGRAPHY

Associate in Applied Science Degree

Curriculum Code 0790

IMPORTANT CHANGE TO ADMISSION PROCESS

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).

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.

The Diagnostic Medical Sonography program (Ultrasound) is a six sequential semester course of study leading to an Associate in Applied Science degree. Associate 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).

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 assumes 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 the program. In addition, all admitted students must have a drug screen test prior to the start of the program (fee to be determined). Costs for both the criminal background check and drug screen test is the responsibility of the student. 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 programs 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.

PHYSICAL GUIDELINES FOR STUDENTS Students must be able to do:

1. **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.
2. **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.
3. **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.
4. **MOBILITY:** Perform mobility skills such as walking, standing, bending; pushing portable equipment throughout the hospital; prolonged standing while completing procedures.
5. **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.
6. **HEARING:** Hear normal sounds with some background of noise from ultrasound control panels, computers, etc.; and to distinguish sounds.
7. **CONCENTRATION:** Concentrate on details with moderate amount of interruptions, such as patient requests, doctor and staff requests, etc.
8. **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.
9. **CONCEPTUALIZATION:** Understand and relate to specific ideas, concepts, and theories generated and discussed simultaneously.
10. **MEMORY:** Remember task/assignments given to self and others over both short and long periods of time.
11. **CRITICAL THINKING:** Ability to make clinical judgment when working independently to obtain diagnostic images.
12. **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.
13. **COMMUNICATION:** Abilities sufficient for interaction with others in verbal and written form.
14. **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.
15. **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, 2010 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 to: 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 grade of 2.0 or higher *or* any college 3-4 credit physics+ (+Does not necessarily mean that LCC will give college credit transfer for other college physics course. For *DMS and our national accrediting agency--CAAHEP* purposes any 3-4 credit college level physics with a grade 2.0 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 \$50.00 cost*)
6. Completion of *all required core courses with a grade of 2.5 or higher by December 31, 2009.*
7. Evidence of good physical and mental health.
8. Applicants must complete anatomy/physiology course required for admission with a grade 2.5 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. (*Any hospital or nursing home)</p> <ul style="list-style-type: none"> • 10 + years • 5 – 9 years • 1 – 4 years • Less than 1 years • Volunteer Work* <p><small>**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</small></p>	<p>20 pts. 15 pts. 10 pts. 5 pts. 2 pts.</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. 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 GPA or higher in each course <u>OR</u> BIOL 145 – with a 3.5 GPA 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 (2.50 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 2010 SEMESTER ADMISSION

SEMESTER	COURSE CODE	COURSE TITLE	CREDIT HRS	BILLING HRS	LEC HRS	LAB HRS	CLINIC HRS	TOTAL HRS	① COURSE FEES
Pre-Requisites	BIOL 145	Introductory Anatomy/Physiology	4	5	48	32	0	80	\$ 40.00
	PHYS 120 or 200	PHYSICS Requirement	4	5	48	32	0	80	\$ 30.00
	MATH 112	Intermediate Algebra	4	4	64	0	0	64	\$ 7.00+
		CORE Requirement	9 - 12	May vary					
Summer 2010	IDMS 200 *	Sonographic Introduction	2	2	32	0	0	32	\$ 110.00
	CHSE 120	Medical Terminology	4	4	32	0	0	32	\$ 43.00+
	IDMS 169 ***	Intro to Sonographic Scanning	2	2	0	32	0	32	\$ 43.00
	IDMS 270	Sonographic Positioning I	2	4	0	64	0	64	\$ 70.00
Fall 2010	IDMS 201 *	General Sonography I	4	4	64	0	0	64	\$ 45.00
	IDMS 202 *	OB/GYN Sonography I	4	4	64	0	0	64	\$ 58.00
	IDMS 234 *	Sonographic Physics	2	2	32	0	0	32	\$ 45.00
	IDMS 271	Sonographic Positioning II	1	2	0	32	0	32	\$ 35.00
	IDMS 280	Clinical Experience I	6	9	0	0	408	408	\$ 544.00
	IDMS 285 V	Sonographic Registry	3	3	48	0	0	48	\$ 10.00V
Spring 2011	IDMS 245 *	Sonographic Instrumentation	2	2	32	0	0	32	\$ 45.00
	IDMS 265 *	General Sonography II	4	4	64	0	0	64	\$ 45.00
	IDMS 266 *	OB/GYN Sonography II	4	4	64	0	0	64	\$ 45.00
	IDMS 281	Clinical Experience II	6	9	0	0	408	408	\$ 584.00
Summer 2011	IDMS 282	Clinical Experience III	8	11	0	0	560	560	\$ 604.00
TOTALS			71 - 74	80 minimum	432	96	1,376	1,904	\$ 2,403.00

On campus DMS classes are **typically** held as follows:
Fall: Mondays **Spring:** Mondays

* These courses are considered "Hybrid" – 50% face to face and 50% online.

*** IDMS 169 Intro to Scanning. Friday

- ② IDMS 280 3 days 17 weeks
- ② IDMS 281 4 days 17 weeks
- ② IDMS 282 5 days 14 weeks

**Current College Tuition Rates
(per billing hour)**

In-district.....\$ 73.00
 Out of district.....\$ 134.00
 Out of state/International.....\$ 201.00

\$5.00 per billing hour Facilities Fee
 + \$10.00 Additional Online Learning Course Fee
 V = online 100% offering

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

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.

① Course fees are in addition to college tuition (current fall 2009).
 ② Course start and end dates may differ from those of the normal college calendar

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. The board results, since its inception in 1975, 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. The first semester (Summer I) there are three IDMS courses to take – **IDMS 169** (Intro to Sonographic Scanning -1 credit /2 billing hrs), **IDMS 200** (Intro to Sonography - 2 credits / 2 billing hours) and **IDMS 270** (Sonographic Positioning I - 2 credits / 2 billing hrs) in addition to **CHSE 120** (Medical Terminology – 4 credits / 4 billing hrs). (**+DMS 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 the official college transcript.
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 the following year.
5. **How often do students attend their clinical site?** The students are at their clinical site 3 days per week from September-December and 4 days per week January-May. Students are on campus at LCC on Fridays.
6. **What is the schedule the final semester (summer II)?** The students are at their clinical site 5 days per week. There is an additional 3-credit 100% online course (IDMS 285: Sonographic Registry Review) that the students are required to take their final semester also.
7. **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**.
8. **What if I completed BIOL 201 and BIOL 202 instead of BIOL 145?** Either BIOL 201/202 **or** BIOL 145 with a grade of 2.50 or higher is accepted for the DMS program. The DMS program grants additional points toward the selective admission program for a grade 3.5 or higher in BIOL 201/202 **or** BIOL 145.
9. **How many students per year does the ultrasound program accept?** We have clinical seats for approximately 24-28 students per year.
10. **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 or higher in BIOL 145 (anatomy/physiology) and a 2.0 or higher in Physics; **and c) MATH 112**.
11. **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 x 1200.

12. **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 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.
13. **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: LCC HHPS Dept at (517) 483-1410 or you may go to: HHS Building, Room 108 to pick up the selective application.
14. **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 DMS.
15. **What does the Admission Committee look for in a DMS applicant?** All admissions are based on 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 find the curriculum code 0790 Associate Degree in Diagnostic Medical Sonography form there.
16. **What happens in the event of a tie breaker?** The college looks at the oldest date of application and will offer that student the seat in the program.
17. **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.
18. **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.
19. **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 careers as well as give additional points toward the selective admissions process.
20. **How much does the program cost?** You can find the current tuition and fees on page 3 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.
21. **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.”
22. **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.
23. **Why does it matter when I apply for the DMS program?** In the event of a tie, 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.

24. **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.
25. **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, work or volunteer experience in the medical field. Students who obtain a 3.5 or higher in physics and anatomy/physiology will be given additional points. Also, those students who complete the optional courses (see page 4, #8 of this advising guide) with a grade 2.50 or higher will be given additional points toward the selective admissions process.
26. **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.
27. **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 to 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.
28. **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 grade 3.5 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.
29. **Is there a waiting list to get into the sonography program at LCC?** We **do not** keep a waiting list from year to year. 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.
30. **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 in the ultrasound department is, 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.
31. **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, mental and physical comfort of patients while they are in the sonographer's care.
32. **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.

33. **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.
34. **If I have other questions, whom should I contact?** You may contact the Diagnostic Medical Sonography Program at: (517) 483-1410.
35. **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.

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 - 4.0	30	
	3.5 - 3.74	25	
	3.25 - 3.49	20	
	3.0 - 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			

DMS Program Estimated Cost* (once accepted into program)

Tuition and Fees	\$ 6,993.00 - 14,673.00
Books	\$ 800.00 - 1,000.00
Miscellaneous Costs**	\$ 200.00 - 1,000.00
Board Fees	\$ 150.00 - 750.00
Total:	\$ 8,143.00 - 17,423.00

*Costs are estimated and may vary yearly. Credit hours, clinical hours, tuition, and laboratory fees are subject to change by action of the Board of Trustees.

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

CURRENT COLLEGE TUITION RATES (Subject to change by action of the Board of Trustees)	
• Resident	\$ 73.00/billing hour
• Non-Resident	\$ 134.00/billing hour
• Out-of State/International	\$ 201.00/billing hour
FACILITIES CHARGE \$5.00 per Billing Hour	

Need More Information?

Please view the website at www.lcc.edu or contact:

Jamia Dunckel MBA, RDMS, RT(R)
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