



The Diagnostic Medical Sonography Advising Packet

The Diagnostic Medical Sonography (DMS) Program

Diagnostic Medical Sonographers use special equipment to direct high frequency sound waves into areas of the patient's body. Sonographers operate the equipment, which collects reflected echoes and forms an image that may be videotaped, transmitted, or photographed for interpretation and diagnosis by a physician. Viewing the screen during the scan, sonographers look for subtle visual cues that contrast healthy areas with unhealthy ones. They decide whether the images are satisfactory for diagnostic purposes and select which ones to store and show to the physician. Sonographers take measurements, calculate values, and analyze the results in preliminary findings for the physicians.

The mission of the DMS Program at MTC is to provide an environment for student diagnostic medical sonographers to become qualified and competent technologists in a healthcare setting. We partner with the healthcare community to provide higher education for sonographers. The School encourages the process of life-long learning.

What Will It Take To Succeed?

To be successful, a student must make a personal commitment to attend all classes, work independently between class sessions, and complete all assignments in a timely manner.

Students in the DMS Program will learn to...

- Demonstrate knowledge and skill in abdominal sonography.
- Demonstrate knowledge and skill in OB/GYN sonography.
- Demonstrate knowledge and skill in small parts/ superficial structures /high resolution sonography.
- Modify standard procedures to accommodate for patient conditions and other variables to obtain quality images.
- Evaluate cross sectional anatomy pathology.
- Recognize emergency patient conditions and initiate first aid and basic life support procedures.
- Evaluate images for appropriate image quality and pathology.
- Demonstrate knowledge and skills related to quality assurance.
- State the safe limits of equipment operation and report malfunctions to the proper authority.
- Exercise independent judgment and discretion when performing imaging procedures.
- Demonstrate an understanding of your role in the healthcare environment.
- Practice effective communication with patients and other health professionals.
- Provide basic patient care, comfort, anticipate patient needs, and patient education.
- Demonstrate an understanding of ultrasound production.
- Demonstrate knowledge of human structure, function and pathology.
- Support the profession's code of ethics and comply with the profession's standard of practice.

All students must complete the Non-Academic Standards prior to acceptance into the program. The students must have:

- Sufficient eyesight to observe patients, manipulate equipment, and evaluate radiographic quality;
- Sufficient hearing to access patient needs and communicate verbally with other health care providers;
- Sufficient verbal and written skills to communicate needs promptly and efficiently in English;
- A reading comprehension level of ability comparable to formal education;
- Sufficient gross and fine motor coordination to respond promptly, manipulate equipment, lift a minimum of 30 pounds, and possess the ability to support 175 pounds and ensure patient safety;
- The ability to work while standing, sometimes for hours; and
- Satisfactory intellectual and emotional functions to exercise independent judgment and discretion in safe technical performance of medical imaging procedures.

MARION TECHNICAL COLLEGE
ADVISING SHEET
DIAGNOSTIC MEDICAL SONOGRAPHY

Student Name (Please Print)

Phone Number

1. Student has spoken with admission counselor and understands the MTC admission requirements.
 MTC Application with Fee Math Skills College Ready Placement
 High School Transcript (GED) Reading Skills Test College Ready Placement
 College Transcript (if applicable) Technology Skills Test (TST)
 Writing Skills College Ready Placement Understands Sonography application is separate form
2. Informed of minimum high school level coursework or successful completion of MTC coursework.
 Reading Skills Assessment: College Ready Placement
 Stats: College Ready Placement Shelf-life on the Math portion is three (3) years.
 English: College Ready Placement
3. Biology and Chemistry: College Ready Placement
4. Recommend high school geometry and physics.
5. Informed application for Diagnostic Medical Sonography Program must be turned in by June 1st. of the year requesting admission. Understands students are admitted to program based upon an Admission Point System. Understands if not selected, student must reapply for future admission.
6. Understands must have a minimum accumulative grade point average of 2.5 (4.0 scale) or equivalent from high school, or minimum 12 semester credit hours or equivalent of college credit, or successful completion of GED examination. GPA used for admission point system will be the most recent GPA.
7. Understands student must be at least 18 years of age at the end of the calendar year in which he or she is seeking admission.
8. Understands must observe in DMS on campus lab and Ultrasound Department within department guidelines prior to application into the Diagnostic Medical Sonography Program and submit completed observation form.
9. Understands must maintain a minimum 2.0 accumulative grade point average at MTC as well as a minimum 2.0 GPA in all required program courses.
10. Understands must complete a physical examination prior to admission into the program as well as meet all non-academic standards for admission.
11. Understands must complete a drug screen facilitated by Marion Technical College. Positive drug screens will result in ineligibility for admission and/or continuation in the program. If student fails to cooperate or complete any drug screening, he or she will be considered "positive" and dismissed from the program. Understands students may be subject to random drug screens.
12. Understands that the American Registry for Diagnostic Medical Sonography Board reserves the right to deny admission to the ARDMS examination if an individual has been convicted of a crime, including felony, misdemeanor, or drug-related arrests.
13. Informed of successful criminal background check and drug screen requirements. Understands potential employers may require background check and drug screening for potential employment and completion of a MTC program does not guarantee future employment. Has the student completed a *Criminal Background Disclosure Form*?
YES NO Advisor's Initials _____

Signature of Advisor

Signature of Student

Date

Social Security Number/or PID

Marion Technical College

Allied Health Programs

I understand that prior to acceptance into an Allied Health program, I will be subject to a background check including, but not limited to, an analysis of fingerprints and review of all prior criminal records. The submission of any false information to Marion Technical College shall be cause for immediate dismissal from an Allied Health program.

Do you have **any** criminal background? _____ YES _____ NO

Signature of Student

Date of Birth

Printed Student Name

PowerCampus ID or Social Security

Date

DIAGNOSTIC MEDICAL SONOGRAPHY TECHNOLOGY

Associate of Applied Science Degree (Effective Academic Year 2020-21)

Course No	Course Title	Credits	OTM, TAG, CT ² approved course	Term(s) Offered	Course Requirements
FIRST SEMESTER (Summer)					
SCI1200	Anatomy & Physiology I	4		ALL	SCI1050 or equivalent.
ALH1110	Medical Terminology	3	OHL020; CTMT001.	ALL	None
DMS1010	Methods of Patient Care	2		ALL	None
DMS1001	Introduction to Sonography	2		ALL	None
MTH1240	Statistics	3	OTM-TMM010	ALL	Appropriate Placement Score or MTH0910.
ALH1190	Physics for Allied Health	2		FA, SP	Appropriate Placement Score or MTH0910.
SECOND SEMESTER (Fall)					
SCI1250	Anatomy & Physiology II	4	OTM-TMNS	ALL	SCI1200
DMS1040	Sonography Cross Sectional Anatomy	1		FA	DMS1001. DMS1020 must be taken before or concurrently with this course. Program Permission.
DMS1020	Sonography Procedures I	4		FA	Program Permission
DMS1101	Sonography Clinical I	1		FA	Program Permission
DMS1051	Sonography Principles & Instrumentation	3		FA	ALH1190 and Program Permission.
THIRD SEMESTER (Spring)					
DMS1030	Sonography Procedures II	4		SP	Program Permission
DMS1201	Sonography Clinical II	2		SP	DMS1101 and Program Permission.
ENG1000	English Composition I	3	TME001	ALL	Appropriate Placement Score or ENG0990.
OIS1240	Computer Applications	3	OBU003	ALL	Appropriate Placement Score or OIS1200.
DMS1061	Sonography Physics Review	1		SP	DMS1051 and Program Permission.
FOURTH SEMESTER (Summer)					
COM1400	Oral Communication	3	TMCOM	ALL	None
DMS1301	Sonography Clinical III	3		SU	DMS1201 and Program Permission.
FIFTH SEMESTER (Fall)					
DMS2050	Sonography Pathology	2		FA,	DMS1030 and Program Permission
DMS2400	Sonography Clinical IV	3		FA	DMS1301 and Program Permission.
SOC2020	Ethnic & Cultural Diversity	3		ALL	Appropriate Placement Score.
ENG1100	English Composition II	3	TME002	ALL	ENG1000
SIXTH SEMESTER (Spring)					
DMS2040	Advanced Imaging Procedures	2		SP	DMS2050 and Program Permission.
DMS2070	Sonography Review	1		SP	DMS2400 and Program Permission.
DMS2500	Sonography Clinical V	3		SP	DMS2400 and Program Permission.

Credit Hour Total 65

**MARION TECHNICAL COLLEGE – DIAGNOSTIC MEDICAL SONOGRAPHY
ADMISSION SCORING**

GRADE POINT AVERAGE: GPA x 10 pts. = Max 40 pts.

Minimum 2.5 accumulative grade point average. Most recent high school or college GPA will be used. Minimum 12 credit hours of college-level credits must be used to evaluate GPA. CCP student's high school GPA will combined and averaged with their college GPA.

OBSERVATION HOURS: 32 hours minimum. Minimum of 3 clinical sites required. Max 30 pts.

Mandatory 12 hours spent in DMS lab as mock patient or observation. This will count as 1 clinical site.

Completion of DMS 1001 = 8 observation hours awarded
and/or DMS 1010 per completed class

32 hours = 10 pts. 0-18 pts., based on 3 different
50 hours = 11 pts. registered sonographers
75 hours = 12 pts. + recommendations

Total Observation Hour Pts. Awarded: _____

TECH PREP or ALLIED HEALTH DEGREE COMPLETION (RAD, PTA, OTA, MLT): 3 pts.

Completion of 2-year Health Technologies program with a final grade of "A" or "B"

DMS CURRICULUM: +5 pts. Bonus for completion of all listed courses

Strongly recommend to complete the following coursework prior to program application.

All coursework must be "C" or better.

+5 Bonus Awarded: _____

SCI 1200 Anat. & Phys. I

A = +10

B = +7

C = +5 _____

SCI 1250 Anat. & Phys. II

A = +10

B = +7

C = +5 _____

MTH 1240 Statistics

A = +10

B = +7

C = +5 _____

DMS 1001 Introduction to Sonography

A = +10

B = +7

C = +5 _____

DMS 1010 Methods of Patient Care

A = +10

B = +7

C = +5 _____

ALH 1110 Medical Terminology

A = +10

B = +7

C = +5 _____

ALH 1190 Physics for Allied Health

A = +10

B = +7

C = +5 _____

Total Curriculum Pts. Awarded: _____

SUBJECTIVE INTERVIEW ASSESSMENT: Max 35 pts.

USA STUDENT ASSESSMENT: Max 36 pts.

Student could score negative (-) points in this category

ADMISSION ESSAY: Max 24 pts.

TOTAL APPLICANT SCORE:

