

School of Diagnostic Medical Sonography Analysis Summary

Marion Technical College

Graduating Class of 2024

College Mission Statement

The mission of the College is to provide an enriched and personal educational experience for our community

DMS Program Mission Statement

To provide an environment for student 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.

- **Goal 1:** “To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the following concentration (s) it offers: Abdominal Sonography-Extended and Obstetrics and gynecology sonography.”

Outcome	Measurement Tool	Benchmark	Timeframe	Responsible Party	Actual Outcome	Action Taken
Students/Graduates will accommodate for patient conditions and other variables to obtain quality images while utilizing proper ergonomics	Avg. of CC and CI Final Semester Evaluation Form (Questions # 2,12)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	The class average was 4 th Semester: 3.6 6 th Semester: 3.8	Benchmark met. Students continue to improve.
Students/Graduates will perform protocols in a systematic and thorough manner and adhere to ALARA	Avg. of CC and CI Final Semester Evaluation Form (Questions # 9)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	The class average was 4 th Semester: 3.5 6 th Semester: 3.8	Benchmark met
Student/Graduates will optimize technical factors with proper transducer manipulation.	Avg. of CC and CI Final Semester Evaluation Form (Question #4,6,7,8)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	The class average was 4 th Semester: 3.6 6 th Semester: 3.8	Benchmark met

Action/Analysis:

We continue to struggle with 1st pass rate of mid-term and final practicals in scan lab. Discuss and develop an improvement or action plan during advisory committee meeting. Developed DMS 2990 Individual Investigation Course. Student are provided with one on one lab instruction to improve scanning ability. Student must demonstrate competency at the end of the course.

Implemented Trajecsyst for Clinical Tracking

Final Clinical Instructor Evaluation scores used in place of CC evaluation scores for DMS 1301: This was due to clinical sites refusing visitors due to Covid-19 Engineering created 3D Transducers for students to take home to practice transducer manipulation skills.

Additional time spent in physics lab on Frequency and focal zone tools. Students practice on machines so they understand how frequency and focal zone manipulation improve image quality. Lab Orientation included bed and machine manipulation. Students were struggling during lab practicals regarding proper machine ergonomics.

Deb and Christine continue to spend additional time in the lab. If a student is enrolled in a 2990, Deb or Chris will teach the course.

Goal #2: The student will demonstrate critical thinking and problem solving skills.						
Outcome	Measurement Tool	Benchmark	Timeframe	Responsible Party	Actual Outcome	Action Taken
Students/Graduates will exercise independent judgment and critical thinking skills and document critical findings.	Avg. of CC and CI Final Semester Evaluation Form (Question # 11)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	4 th Semester: 3.6 6 th Semester: 3.8	Benchmark met
	College Graduate Competency	Students must receive a minimum score of 75% or 12 points	DMS 2500 (6 th semester)	Clinical Coordinator	Average score 86.6%	<i>Benchmark met</i>
Students/Graduates will adapt to difficult situations while fulfilling required duties.	Avg. of CC and CI Final Semester Evaluation Form (Question # 11)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	4 th Semester: 3.6 6 th Semester: 3.8	Benchmark met
	Clinical Test Scores	Students achieve a minimum clinical test grade of 75% or above	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	4 th Semester: 80% 6 th Semester: 91%	Average score remained the same.
Employers are satisfied with graduate problem solving (Cognitive) skills.	Employer Survey Overall Rating Cognitive	Students will average ≥ 3.0 on a scale of 1-5	Annually	Program Director	All employers scores graduates with a rating of 4.9	8 surveys were returned Benchmark met

Action/Analysis:

Employers are satisfied with graduates' entry level skills. Career services resources are available to all students at MTC. Career Services present annually at a student meeting.

Goal #3: Students will be able to communicate.						
Outcome	Measurement Tool	Benchmark	Timeframe	Responsible Party	Actual Outcome	Action Taken
Students/Graduates will demonstrate oral communication skills.	Avg. of CC and CI Final Semester Evaluation Form (Question #2)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	4 th Semester: 3.7 6 th Semester: 3.9	Scores continued to improve.
	DMS 2050– Pathology Oral Presentation Rubric	Students will average 19 pts of a possible 24 pts.	Spring Quarter Final quarter	Course Instructor	The class average was a 23.45	Benchmark met
Students/Graduates will demonstrate written communication skills.	DMS 2050 Pathology Written Presentation Rubric	Students will average 19 pts of a possible 24 pts.	Spring Quarter Final quarter	Course Instructor	The class average was a 22.5	Benchmark met
	Avg. of CC and CI Final Semester Evaluation Form (Question # 2)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	4 th Semester: 3.7 6 th Semester: 3.9	Benchmark met

Action/Analysis:

Students continue to score well in this category. Librarian presents information regarding scholarly research. Research PowerPoint included in clinical and pathology courses.

Goal #4: Students will grow and develop professionally.						
Outcome	Measurement Tool	Benchmark	Timeframe	Responsible Party	Actual Outcome	Action Taken
Student/Graduates will exhibit professional ethical standards together with professional attitudes, behaviors, and ethics.	Avg. of CC and CI Final Semester Evaluation Form (Question # 2)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	4 th Semester:3.7 6 th Semester:3.9	Benchmark met
Employers will be satisfied with the performance of newly hired technologists	Avg. of CC and CI Final Semester Evaluation Form (Question # 2)	Students will average ≥ 3.5 on a scale of 2.8-4.0	DMS 1301 (4th semester) DMS 2500 (6th semester)	Clinical Coordinator	The class average was 4 th Semester: 3.7 6 th Semester: 3.9	Benchmark met
	Employer Survey Clinical Proficiency		At least 3 months after Graduation	Program Director	The class average was 4.75	8 surveys were returned Benchmark met.

Action/Analysis:

Employers are satisfied with our graduates.

Program Effectiveness

Outcome	Measurement Tool	Benchmark	Timeframe	Responsible Party	Results
Students/Graduates will pass the national certification examination	National Certification Exam Pass Rates	75% or higher each year 5 year Avg 80% or higher	3 months post-graduation (or upon completion by all)	Program Director	All 11 students sat for both specialty exams. 82% pass rate for ABD. 80% pass rate for OB/GYN.
Students/Graduates will be gainfully employed within 6 months post-graduation.	Verbal Communication	Of those seeking employment, 75% of graduates will find employment within 6 months. Calculation is based on 5 year average.	3 months post-graduation (or upon completion by all)	Program Director	100 % job placement rate
Students/Graduates will complete the program.	Graduation roster	The yearly retention rate of $\geq 75\%$	Upon graduation.	Program Director	14 students began the program. 11 students completed the program. 79% retention rate
Graduates will be satisfied with their education.	Graduate Survey Section 4	Survey results will indicate an average ≥ 3 on a scale of 1-5.	3 months post graduation	Program Director	4.81 average
Employers will be satisfied with the performance of newly hired sonographers.	Employer Survey Overall Rating	Survey results will indicate an average ≥ 3 on a scale of 1-5.	3 months post graduation	Program Director	4.84 average 8 surveys were returned Benchmark met.

Action Plan:

We continue to develop and implement ideas to improve student success regarding our attrition rate and registry pass rates. We extended the class duration time for review class. We also changed the delivery format of the class structure. Students take a quiz each week.