

Course Number and Title: DMS 242 Clinical Internship III

Campus Location:

Georgetown

Effective Date:

2021-51

Prerequisite:

DMS 241

Co-Requisites:

none

Course Credits and Hours:

5.00 credits

0.00 lecture hours/week

24.00 lab hours/week

Course Description:

This course, the third in a series, provides the student with clinical exposure necessary in the field of sonography with emphasis on the comfort and safety of the patient during more complex exams while maintaining a quality performance in diagnostic medical sonographic procedures.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

Diagnostic Medical Sonography Program Student Handbook

Separate instructor handouts and assignments

Schedule Type:

Classroom Course

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Integrate didactic and laboratory principles in the clinical setting and develop independent practice in a clinical setting. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3, 4)
2. Participate as an instrumental team member in the healthcare delivery system. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3, 4)
3. Participate in educating other healthcare providers and public in the appropriate applications of sonographic evaluation appropriate to the student's level of education. (CCC 1, 2, 3, 4; PGC 2,3,4)
4. Perform the diagnostic medical sonographic procedures with limited assistance within the plan of care and scope of responsibility. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3, 4)
5. Develop a report of sonographic findings when assisting with examinations, using appropriate records, patient information, and clinical skills. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3, 4)
6. Perform sonographic examination of extremity arteries, extremity veins, and cerebrovasculature using real-time ultrasound or physiological equipment. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 3, 4)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Objectives (MPOs):

Upon completion of this course, the student will:

1. Integrate didactic and laboratory principles in the clinical setting and develop independent practice in a clinical setting.
 1. Perform sonographic procedures under direct and indirect supervision of staff sonographers.
 2. Comply with college, program, and clinical affiliates policies.
 3. Perform clinical exams with increased complexity including abdomen, superficial structures, and the gravid and non-gravid pelvis.
 4. Adhere to professional standards and abide by guidelines as outlined by the Society of Diagnostic Medical Sonography (SDMS).
2. Participate as an instrumental team member in the healthcare delivery system.
 1. Demonstrate appropriate interaction skills with the interpreting physician and other healthcare professionals in a clinical setting.
 2. Demonstrate professional and ethical conduct.
 3. Work cooperatively with all members of the healthcare team, recognizing and respecting each member's unique abilities, contributions, and functions.
3. Participate in educating other healthcare providers and public in the appropriate applications of sonographic evaluation appropriate to the student's level of education.
 1. Explain procedure briefly and clearly to patient.
 2. Explain appropriate applications of ultrasound evaluation.
4. Perform the diagnostic medical sonographic procedures with limited assistance within the plan of care and scope of responsibility.
 1. Formulate and assist in coordinating and following a plan of action in the performance of diagnostic medical sonographic procedures and other diagnostic tests.
 2. Identify and prioritize patient needs.
 3. Recognize unexpected circumstances.
 4. Integrate pertinent information to solve problems.
5. Develop a report of sonographic findings when assisting with examinations, using appropriate records, patient information, and clinical skills.
 1. Document significant clinical information and historical facts from the patient and the medical records that may impact diagnostic information.
 2. Initiate studies and obtain images in an organized manner.
 3. Use appropriate records, patient information, and clinical skills to accurately form a report of sonographic findings.
6. Perform sonographic examination of extremity arteries, extremity veins, and cerebrovasculature using real-time ultrasound or physiological equipment.
 1. Select appropriate transducer and instrument settings appropriate to the requested part and body habitus.
 2. Perform required competency as outlined in DMS Clinical Competency Requirements to include upper and lower extremity arterial exam of pulse volume recording/segmental limb pressures (PVR/SLP), upper and lower extremity venous duplex, and carotid duplex exam using appropriate records, patient information, and clinical skills.
 3. Explain the protocol for lower extremity PVR/SLP examination and practice these procedures:
 1. Identify normal waveform and waveform morphology.
 2. Obtain pulse volume recording (PVR).
 3. Obtain multilevel segmental pressures bilaterally and ability to calculate ankle-brachial index (ABI).
 4. Explain segmental pressure and determine need for exercise testing, if applicable.
 5. Discuss the need to perform duplex imaging where appropriate.
 6. Recognize levels suggesting stenosis and degree of flow reduction.

Evaluation Criteria/Policies:

The grade will be determined using the Delaware Tech grading system:

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|----|---|-----|---|---|
| 90 | - | 100 | = | A |
| 80 | - | 89 | = | B |
| 70 | - | 79 | = | C |
| 0 | - | 69 | = | F |

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Graduates will demonstrate clinical competence by performing a full range of diagnostic medical sonography procedures on all patient populations pertaining to their learning concentration.
2. Graduates will professionally utilize verbal, nonverbal, and written communication skills in patient care, procedure intervention, and professional relationships.
3. Graduates will demonstrate professional growth and development by acting in a professional and ethical manner and comply with the professional scope of practice.
4. Graduates will integrate critical thinking and problem solving skills as expected of a healthcare professional.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.