

**Course Prefix/Number/Title:** DMS 223L Abdominal Extended Sonography III Lab

**Number of Credits:** 1 semester credit

**Course Description:**

This course is a hands-on sonographic scanning lab and the continuation in study of the anatomy, physiology, pathology and pathophysiology of the human anatomy, specifically external/superficial tissue to include scrotum, prostate, breast, thyroid and interventional procedures as visualized by sonography.

**Pre-/Co-requisites:** DMS 223

**Course Objectives:**

1. Describe scanning techniques and protocols used in superficial/external tissue scanning.
2. Explain terminology used to describe the protocol and procedural steps of ultrasound guided interventional and invasive examinations.
3. Describe the anatomy and relational landmarks of the associated anatomy.
4. Define the criteria for adequate, diagnostic imaging and Doppler evaluation of vascular structures of superficial tissue ultrasound examinations.
5. List the clinical signs and sonographic features for pathology discussed in course.
6. Describe the advantages of ultrasound-guided procedures.
7. List potential complications of ultrasound-guided interventional techniques.
8. Describe appropriate indications for the use of ultrasound in superficial tissue.
9. Describe and perform sterile technique and patient care requirements for interventional procedures.

**Instructor:** Amy Hofmann, Keshia Gathman

**Office:** 5th Floor Medical Arts Clinic, Trinity Health

**Office Hours:** 3:00-5:00pm M-Th and by appointment

**Phone:** 701-857-5620

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**Lecture/Lab Schedule:** 9:00-3:00 pm Tu September 22 to December 15 MAC Skywalk Rm A

**Textbook(s):** Diagnostic Sonography, Hagen-Ansert, 9th Edition; Workbook Diagnostic Sonography, Hagen-Ansert, 9th Edition; Trinity Health Clinical Education Handbook

**Course Requirements:**

Grading is based on completion of assignments, quizzes and test.

Assignments	15%
Quizzes	15%
Test	70%

Consistent with class attendance policy, the student is responsible for attending every class and for the material presented. If a student will not be attending a class, he/she must notify the Program Director prior to absence to plan for makeup time and activities.

#### Grading Criteria

A = 94-100% of the total points  
B = 87 - 93% of the total points  
C = 80 - 86% of the total points  
F = <79% of the total points

#### Tentative Course Outline:

Date	Topic/Scanning	Assignment/Quiz/Test
9/23	Scrotum Prostate PPT Lecture	Assignment #1 Scrotum A&P
9/30	Scrotum scanning with phantom	
10/7	Breast A&P PPT Lecture	Assignment #2 Breast A&P
10/14	Breast sonographic technique	
10/21	Cont.	
10/28	Cont.	
11/4	Thyroid A&P PPT Lecture	Assignment #3 Thyroid A&P
11/11	Cont.	
11/18	Cont.	
11/25	Thyroid Lab Assessment	Lab Assessment- Thyroid Assignment #4 Thyroid Images PPT Due Assignment #5 Scrotum Images PPT Due
12/16	Final Test	Final Test

#### CTE Competency/Department Learning Outcome(s):

CTE Competency #1: Employ industry-specific skills in preparation for workplace readiness.

Learning outcome #1 – Students will demonstrate ability to formulate effective technical factors based on patient body habitus, physical limitations, pathology and equipment limitations. SLO 1.1

Learning outcome #2 – Students will demonstrate ability to critically evaluate completed images for diagnostic quality. SLO 1.2

Learning outcome #3 – Students will demonstrate professional behavior in the classroom and clinical setting by treating others with dignity, respect and compassion. SLO 3.2

Learning outcome #4 – Students will acquire sonographic images of diagnostic quality. SLO 4.1

#### Relationship to Campus Focus:

This course addresses a DMS Program theme by developing the knowledge and psychomotor scanning skill sets necessary to perform superficial tissue and transplant abdominal sonography utilizing the protocols and techniques that are currently used in sonographic imaging of superficial tissue, transplants and image guided interventional sonography.

#### Classroom Policies:

1. Cell phones and related devices are monitored in the classroom at all times. It is recommended that you do not bring your cell phone or other electronic devices into the classroom or, at the very least, get instructor permission to use approved devices as classroom learning resources.
2. Food and beverages are permitted in accordance with classroom policy.
3. Be respectful of other students, instructors, and guests.

**Student Email Policy:**

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student. Additionally, student must provide Trinity Health DMS faculty with a personal email address for communication while in the program.

**Academic Integrity:**

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred. Additionally, dishonesty in the classroom or laboratory and with assignments, quizzes and exams is a serious offense and is subject to disciplinary action by the DMS Program Director. For more information, refer to the Trinity Health DMS Program Handbook policies.

**Disabilities or Special Needs:**

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

**Title IX:**

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.

**AI Student Policy:**

Unless otherwise indicated in the course syllabus, or in individual instructions for course assignments, or in the absence of the express consent of the course instructor, students are not allowed to utilize generative AI to help produce any of their academic work. Any violation of this policy will be considered an act of academic dishonesty as outlined within the Dakota College Code of Student Life.

**RESPONSIBILITIES**

Students	<ul style="list-style-type: none"><li>• Responsible to follow the syllabus and assignment instructions regarding use of generative AI for all academic work.</li><li>• Obtain permission of the instructor prior to the use of generative AI that is outside of the syllabus or assignment instructions. Provide appropriate rationale for how the use of generative AI will enhance the learning experience for the assignment.</li><li>• In instances where generative AI is permissible, appropriately cite the generative AI program used and indicate where in the assignment it was used, in a brief submission statement.</li></ul>
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Faculty	<ul style="list-style-type: none"><li>• Determine if the use of generative AI could enhance student learning in any assignment or project.</li><li>• Clearly indicate in all course syllabi if generative AI is allowable for any academic work.</li><li>• If allowable, give specific parameters for how and when generative AI may be used.</li><li>• If a violation of generative AI for the individual course/syllabus is suspected, discuss the concern with the student. If violation is still suspected, inform the appropriate semester coordinator/program director.</li></ul>
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