

Course Prefix/Number/Title: DMS-223 Abdominal Ultrasound III

Number of Credits: 3

Course Description: This course is the continuation study of the anatomy, physiology, pathology and pathophysiology of superficial tissue to include thyroid, scrotum, prostate, breast and ultrasound guided interventional techniques of these tissues.

Pre-requisites: DMS-222, DMS-222L

Corequisites: DMS-223L, DMS-241; DMS-212

Course Objectives: This course is integrated with DMS-223L, a hands-on sonographic scanning lab that focuses on the knowledge, skills and techniques for acquisition of appropriate sonographic protocols and image optimization of the thyroid, scrotum, prostate, breast, and ultrasound guided interventional techniques. Color and spectral Doppler applications will also be applied to the appropriate anatomy.

Instructor: Amy Hofmann

Office: Suite 302 5th Ave Building, Trinity Health

Office Hours: 9 AM to 2 PM Tu, Th and by appointment

Phone: 857-5620

Email: amy.hofmann@trinityhealth.org

Lecture Schedule: 9:30 – 11:30 pm MW May 27 to August 21 in Suite 301

Lab Schedule: 1:30 – 3:00 pm MW May 27 to August 21 in Suite 301

Textbook: Diagnostic Sonography, Hagen-Ansert, 8th Edition

Lab Manual: 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 Lecture Outline:

<u>WEEK</u>	<u>TOPIC</u>	<u>READING</u>
1	Thyroid and parathyroid A&P	Chpt 22
2	Thyroid Pathology	
3	thyroid sonographic techniques	
4	Scrotum and prostate A&P	Chpt 23
5	cont. with Pathology	
6	Breast A&P, Pathology	Chpt 21

7	sonographic techniques	
8	Ultrasound guided interventional techniques	Chpt 18
9	fine needle aspiration, and biopsy	
10	sonography of transplant organs	Chpt 20
11	Review	
12	Testing	

General Education Competency/Learning Outcomes

1. Describe scanning techniques and protocols used in superficial 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.

Relationship to Campus Theme:

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

Classroom Policies

1. Cell phones and related devices are prohibited 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, turn it off.
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.

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.

Disabilities and Special Needs

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services within the first two weeks of the semester to line up accommodations.

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.