



Course Prefix/Number/Title: DMS 222L Abdominal Ultrasound II Lab

Number of Credits: 1 semester credits

Course Description:

This course is a hands-on sonographic scanning lab, the continuation study of the anatomy, physiology, pathology and pathophysiology of the upper abdominal cavity, peritoneal cavity to include the liver, biliary tree, aorta, IVC, pancreas, spleen, gastrointestinal organs, abdominal wall, peritoneum and diaphragm as visualized by sonography. Discussion and demonstration will include the application of Doppler principles, paracentesis and thoracentesis procedures. This course is integrated with DMS-222, focusing on the knowledge, skills and techniques for acquisition of appropriate sonographic protocols and image optimization of the abdomen. Color and spectral liver and abdominal Doppler applications will also be applied to appropriate anatomy.

Pre-/Co-requisites: DMS 222

Course Objectives:

1. Describe scanning techniques and protocols used in liver, biliary, pancreas, spleen and abdominal vascular 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 gastrointestinal tract.
4. Define the criteria for adequate, diagnostic abdominal, vascular and gastrointestinal tract 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.

Instructor: Keshia Gathman, Amy Hofmann

Office: Suite 302 5th Ave Building, Trinity Health

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

Phone: 701-857-5620

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Lecture/Lab Schedule: 8:30 – 10:30 am MW January 10 to May 13 in Suite 301

Textbook(s): Diagnostic Sonography, Hagen-Ansert, 8th Edition, Diagnostic Sonography, Hagen-Ansert Workbook, 8th 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:

WEEK	TOPIC	READING
1/10	Gallbladder Lecture Ppt	
1/17	Gallbladder and Biliary System	Biliary/GB Assignment 1
1/24	Gallbladder and Common Bile Duct	Assignment 1 Due
1/31	Liver Lecture Ppt	
2/7	Liver A & P; liver handout assignment 2	Liver Assignment 2
2/14	Liver Protocol	Quiz 1-Liver Protocol Liver Assignment 2 Due
2/21	Liver cont.	Liver Image PPoint Due
2/28	Spleen/Pancreas Lecture	
3/7	Abdomen Complete Ppt	
3/14	March 14-18 Spring Break	
3/21	Abdomen Complete Scanning	
3/28	Abdomen Complete Scanning	Quiz 2-Abd Comp Protocol
4/4	Abdomen Complete Scanning	Abd Comp Image Ppt Due
4/11	Abdomen Complete Lab Assessment	Lab Assessment
4/18	Liver Doppler Lecture Ppt	
4/25	Liver Doppler Scanning	Quiz 3-LiverDopplerProtocol
5/2	Liver Doppler	Liver Doppler Image Ppt Due
5/4	Test	Abd II Lab Final Test
5/9	Make up time if needed	

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): Employ industry-specific skills in preparation for workplace readiness

Relationship to Campus Focus:

This course addresses a DMS Program theme by developing the knowledge and cultural competency skill sets necessary to provide safe, high quality patient care for the neonate, pediatric, adult and geriatric patient 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 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.