



Course Prefix/Number/Title: DMS 224 Abdominal Ultrasound IV

Number of Credits: 2 semester credit

Course Description:

This course is the continuation study of the anatomy, physiology, pathology and pathophysiology of the abdomen and superficial tissue to include abdominal wall and cavities, gastrointestinal tract, neonatal brain, spine, hip and musculoskeletal sonography.

Pre-/Co-requisites: None

Course Objectives:

1. Describe scanning techniques and protocols used in abdominopelvic cavity imaging.
2. Identify sonographic and cross-sectional anatomy and relational landmarks of the abdominopelvic region.
3. Define terminology used to describe the sonographic imaging of the gastrointestinal tract.
4. Describe criteria for adequate diagnostic imaging and Doppler evaluation of anatomical and vascular structures of abdominopelvic cavity ultrasound examinations.
5. List the clinical signs and sonographic features for pathology discussed in course.
6. Describe common, appropriate indications for the use of sonographic imaging of the hepatobiliary and urinary systems, pancreas, spleen, brain, spine and hip in pediatric procedures.
7. Describe scanning techniques and protocols used in pediatric abdomen, brain, spine and hip Imaging.
8. Describe scanning techniques and protocols used in musculoskeletal sonographic imaging.

Instructor: Amy Hofmann, Keshia Gathman

Office: Suite 302 5th Ave Building, Trinity Health

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

Phone: 701-857-5620

Email: amy.hofmann@trinityhealth.org

Lecture Schedule: 10:00-12:00 Tu, Th, January 9 to February 23 in Suite

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

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-Jan 9	anatomy and physiology of abdominopelvic cavity	Chpt 4
2-Jan 16	comparative sectional abdominopelvic anatomy	Chpt 5
3-Jan 23	anatomy and physiology of gastrointestinal tract	Chpt 13
4-Jan 30	neonatal abdomen	Chpt 25,26
5-Feb 6	neonatal brain and spine	Chpt 27, 29
6-Feb 13	neonatal hip, MSK	Chpt 28
7-Feb 20	review and testing	

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 psychomotor scanning skill sets necessary to perform sonography of abdominopelvic cavity, gastrointestinal tract, neonatal abdominopelvic, spine, brain and hip 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.