

**Course Prefix/Number/Title:** DMS 232 OB/GYN Ultrasound II

**Number of Credits:** 2 semester credits

**Course Description:**

This course is the study of the role of sonography in obstetrics, to include topics of indications for and types of obstetric sonography, patient history, maternal risk factors and guidelines for first-, second- and third-trimester obstetric sonographic examinations, normal first and second trimester and first trimester complications. This course is integrated with DMS 232L, a hands-on sonographic scanning lab that focuses on the knowledge, skills and techniques for acquisition of appropriate sonographic protocols and image optimization of fetal growth and development. Color and spectral Doppler applications will also be applied to the appropriate anatomy.

**Pre-requisites:** None

**Corequisites:** DMS-232L, DMS-222, DMS-222L, DMS-211, DMS-282

**Course Objectives:**

1. Describe the early development of the embryo and sonographic appearance at various gestational ages.
2. Define sonographic characteristics of the yolk sac, embryo, amnion, chorion and gestational sac.
3. Identify the sonographic goals of and measurements performed in the first trimester appearance of normal embryonic and fetal structural anatomy.
4. Describe the transvaginal and transabdominal scanning techniques and protocols used in first trimester obstetrical scanning.
5. Describe the normal development of the fetus and its sonographic appearance at different gestational ages.
6. Describe viable and nonviable fetus with appropriate terminology.

**Instructor:** Amy Hofmann/Megan McKay Opland

**Office:** Suite 302 5<sup>th</sup> Ave Building, Trinity Health

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

**Phone:** 857-5620

**Email:** [amy.hofmann@trinityhealth.org](mailto:amy.hofmann@trinityhealth.org)

**Lecture Schedule:** 10:30 – 12:30 pm Mon. January 8 to May 10 in Suite 301

**Lab Schedule:** 8:30 – 10:30 am MW January 8 to May 10 in Suite 301

**Textbook:** Diagnostic Sonography, Hagen-Ansert, 8<sup>th</sup> Edition

**Lab Manual:** Trinity Health DMS 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>
1/8	role of sonography in obstetrics, indications,	Chpt 47
1/15	clinical ethics	Chpt 48
1/22	1 <sup>st</sup> trimester sonographic imaging	Chpt 49
1/29	“ “	
2/5	“ “	
2/12	1 <sup>st</sup> trimester, quiz	
2/19	1st trimester complications	Chpt 50
2/26	“ “	
3/4	<b>March 4-8 Spring Break</b>	
3/11	assignment 1 <sup>st</sup> trimester presentation	
3/18	sonographic technique and evaluation of normal 2 <sup>nd</sup> tri	Chpt 51
3/25	sonography of normal 2 <sup>nd</sup> and 3 <sup>rd</sup> trimester fetal anatomy	
4/1	continued; quiz 2 <sup>nd</sup> and 3 <sup>rd</sup> trimester	
4/8	measurements of gestational age, 1st, 2nd, 3rd trimesters	Chpt 52
4/15	continued	
4/22	fetal growth assessment, IUGR, fetal wellbeing evaluation	Chpt 53
5/1 & 5/8	review and testing	

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

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

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

Learning outcome #2 – Students will demonstrate effective written communication skills to articulate appropriate patient information SLO 2.1

### **Relationship to Campus Focus:**

This course addresses a DMS Program theme by developing the knowledge and psychomotor scanning skill sets necessary to perform gynecologic and obstetrical sonography, utilizing the protocols and techniques that are currently used in sonographic imaging. Special focus will be on sonographic techniques used in gynecology and obstetrical scanning in identifying normal and abnormal embryonic development, the assessment of embryonic growth in the normal first trimester, normal second trimester as well as complications occurring in the first trimester.

### **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**

Trinity Health is increasingly dependent upon electronic communication (email) as an official form of communication. A student's assigned email address will be the only one recognized for official mailings. The liability for missing or not acting upon important information conveyed via Trinity Health DMS Program email rests with the student.

### **Academic Integrity**

All students are expected to adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory and with assignments, quizzes and exams is a serious offense and is subject to disciplinary action by the Program Director. For more information, refer to the DMS Program Handbook policies.

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.