



# LINCOLN UNIVERSITY

## DI 130 – OB/GYN Ultrasound II

### Course Syllabus

**Term:** Summer 2015  
**Credit:** 3 units = 45 lecture hours  
**Class Hours:** **Mondays & Wednesdays, 3:30 PM – 6:15 PM**  
**Instructor:** Dr. Dusica Ristic, MD, RDMS (ABD, BR, OB/GYN), RDCS, RVT  
**Contact:** Diagnostic Imaging Lab Phone No. 510-238-9744  
**Email:** dristic@lincolnuca.edu  
**Office Hours:** By appointment only: Mon, Tue, Wed, Thu, 11:45 am – 12:30 pm

#### **REQUIRED TEXTBOOK:**

Hagen-Ansert: Textbook of Diagnostic Ultrasonography, Vol. 1&2  
7th Edition (2011), ISBN-13: **978-0323073011**, ISBN-10: **0323073018**,

Susan Raatz Stephenson: Diagnostic Medical Sonography: Obstetrics & Gynecology  
3rd Edition (2012), ISBN-13: **978-1608311170**, ISBN-10: **1608311171**

**Additional recommended textbooks and instructional materials will be given during classes.**

#### **COURSE DESCRIPTION:**

This course is for intermediate students and is covering ultrasound methods used in obstetrics studies. It includes an assessment of fetal gestational age, physiology and pathology, clinical symptoms of the maternal diseases and their sonographic appearances, scanning techniques and protocols. (3 units) **Prerequisite: DI 120**

#### **LEARNING OBJECTIVES:**

Upon satisfactory completion of this course, the students will be able to:

- Demonstrate scanning as required by AIUM and ACOG standards of care 1st, 2nd, and 3rd trimesters;
- Recognize Sonographic normal fetal anatomy and fetal anomalies;
- Correlate sonographic and laboratory data;
- Describe physiology and pathology of the placenta and amnion;
- Describe Sonographic and fetal acquired, congenital and genetic diseases;
- Explain the importance of Sonographic markers of biophysical profile;
- Demonstrate knowledge of presenting OB/GYN films in a logical sequence;
- Justify the ultrasound images.

#### **METHODOLOGY:**

The previously described topics will be presented through the following:

- Reading assigned textbooks and lecture outlines (handouts);
- Demonstration of lectures by using the PowerPoint;
- Recommended study guide activities;
- Internet resources;
- Group discussions and ultrasound case analyses;
- Quizzes and examinations.

## **REQUIREMENTS:**

- Students are expected to be prepared in advance before the class sessions.
- Being prepared includes the following: having read text materials (e.g., reading textbooks and lecture outlines) assigned for that day's activities and bringing required work materials (e.g., textbook, handouts, writing supplies, etc.) to the session.
- Homework assignments will include reading the topic(s) one week ahead of time.
- Students are expected to attend and participate in all course lectures and activities, and complete all quizzes, examinations and course assignments on time. **Therefore an attendance and being on time are crucial** to your final grade.
- Students should understand that "introductory" does not mean "easy".
- Students must budget time efficiently and be realistic about all personal and professional commitments that consume time.

### ❖ **Academic Honesty**

The University maintains a strict policy concerning academic dishonesty, which includes cheating, plagiarism, giving assistance on an examination or paper when expressly forbidden by the instructor, and any other practices which demonstrate a lack of academic integrity. It is the responsibility of the students to know and to adhere to principles of academic honesty. A student found guilty of academic dishonesty will be subject to academic sanctions ranging from failure on the assignment to failure in the course too.

## **ATTENDANCE AND PARTICIPATION:**

- Students who are tardy, who arrive after roll is taken or leave before the end of class will receive only half-credit for attendance.
- **Students are not allowed to be more than 15 minutes late.**
- If you are late or absent, a valid excuse such as illness, family emergency, unforeseen heavy traffic or natural disaster is expected. Oversleeping, and working on films are not considered valid excuses.
- No requirements to make up any work missed as a result of an absence. However, it is your responsibility to obtain notes from other class members regarding the class session you missed.

## **HOMEWORK:**

The goal of the homework is to help students achieve the course learning objectives. Homework consists of two parts. First part is to read the textbooks and materials to review and analyze the lecture given during a previous class session. Students are expected to spend six hours for each class session outside of class in completing the reading assignments related to each lecture. These assignments are graded through short quizzes given at the beginning of the following class session. Second part of the homework consists of a project presented at the end of the course. Each student will choose the topic for presentation or will be assigned one by the instructor. The presentation should be approximately 10 minutes long and with 5 minutes for a discussion. The presentation should include ultrasound images which may be received from the Director of Diagnostic Imaging Laboratory, related to the topic of presentation. The topic and format for the presentation will be discussed in class for more details. A final draft of the presentation must be submitted for review one week prior to the presentation.

### **Evaluation Criteria for Project:**

- Clinical statement: 2%
- Background information: 2%
- Slide content: 2%
- Slide design: 1%
- Resolution of the problem: 2%
- Oral presentation in class: 1%

Total: 10% of all the course grading elements

## **TESTING:**

### **❖ Quizzes**

Students will take **10 tests; 10-15 questions each**. These quizzes will address the detailed content and major concepts presented in the lectures, lecture outlines and text readings to evaluate students' work outside of the classroom. If the student takes more than ten quizzes, only the best ten quiz scores will be used in calculating the student's total points. Each quiz will be timed; **1 minute for every question to complete**. No make-up quizzes for missed quizzes will be administered (students will receive no score for missed quizzes).

### **❖ Midterm and Final Examinations**

- **Students will take written midterm of 50 questions and final examination of 100 questions.**
- The written examinations are proctored and will be closed-book exams.
- Students will not be allowed to refer to texts, notes, nor other materials while taking the exams.
- The Scranton machine will be used in grading multiple-choice tests.
- **Each student will be allowed to re-take one exam only.**
- Students must take the exam during the scheduled time period.
- A student missing an exam because of an illness or legitimate emergency may take a make-up exam as soon as possible after the student returns and as determined by the instructor. In such circumstances, the student should make every reasonable attempt to contact the instructor before the exam period is over (or as soon as possible).
- While make-up exams will cover the same content area as a missed exam, the exam format and specific questions may be different.

## **GRADING:**

Attendance	10%
Midterm Exam	30%
Final Exam	30%
Quizzes	20%
Project	10%
Total	100%

100-93	A
92-89	A-
88-85	B+
84-81	B
80-77	B-
76-73	C+
72-69	C
68-65	C-
64-61	D+
60-50	D
<b>49≤</b>	<b>F</b>

**CLASSROOM PROTOCOL:**

- All students are expected to display professionalism, in preparation for hospital work. That means arriving on time, remaining quiet when others are speaking, and paying attention to whoever has the floor in the classroom.
- Students are expected to attend and be prepared for all regularly scheduled classes. If a student knows in advance that he or she will need to leave early, the student should notify the instructor before the class period begins.
- Students are expected to treat faculty and fellow students with respect. For example, students must not disrupt class by leaving and reentering during class, must not distract class by making noise, and must be attentive to comments being made by the instructor and by peers.
- Never speak while the instructor is speaking.
- Always raise your hand to speak or to leave your seat, and wait for a response before speaking.
- **Disruptive behavior will not be tolerated**, including touching of other classmates or their belongings.
- Students engaging in disruptive behavior in class will be asked to leave and may be subject to other penalties if the behavior continues.
- Drinks only in a closed container.
- Please turn off your cell phones, and refrain from activities that disrupt the class (such as eating and walking in and out of the room while class is in session).
- If you use a computer in class, please use it only to take notes, to access course materials from the course webpage, or to locate information relevant to the class discussion. Do not use your computer to surf the web, check emails, or send/receive text messages, as these activities are distracting to those around you (and decrease your chances of getting the most out of your time in class).
- To encourage the free flow of conversation, no part of any class may be recorded on audio or video media without the permission of the instructor. You may record notes by hand or by typing into a mobile computer.
- The presence of guests to listen to any part of a class requires the consent of the instructor.

**SCHEDULE:**

Weeks	Dates		Topics	Quizzes
1	Mo	6/08/2015	Obstetrics – First Trimester (1) Normal Sonographic Anatomy	
	We	6/10/2015	Obstetrics – First Trimester (2) Pathology for Sonographers	Quiz #1
2	Mo	6/15/2015	Obstetrics – First Trimester (3) Sonography in Chromosomal Anomalies	Quiz #2
	We	6/17/2015	Obstetrics – First Trimester (4) Hydrops Fetalis; Multiple Gestations	Quiz #3
3	Mo	6/22/2015	Obstetrics – Second & Third Trimesters (1) IUGR	Quiz #4
	We	6/24/2015	Obstetrics – Second & Third Trimesters (2) Placenta and Amniotic Fluid	Quiz #5
4	Mo	6/29/2015	Obstetrics – Second & Third Trimesters (3) CNS Anomalies	Quiz #6
	We	7/01/2015	Obstetrics – Second & Third Trimesters (4) CVS Anomalies	Quiz #7

5	Mo	<b>7/06/2015</b>	Obstetrics – <b>MIDTERM EXAM (50 questions)</b>	
	We	7/08/2015	Obstetrics – Second & Third Trimesters (5) Skeletal Anomalies	
6	Mo	7/13/2015	Obstetrics – Second & Third Trimesters (6) GIT Anomalies	Quiz #8
	We	7/15/2015	Obstetrics – Second & Third Trimesters (7) Urinary Tract Anomalies	Quiz #9
7	Mo	7/20/2015	Review of Lectures, <b>Presentations of Projects</b>	Quiz #10
	We	<b>7/22/2015</b>	<b>FINAL EXAM – WRITTEN (100 questions)</b>	

**Note:** Instructor may change this syllabus and course schedule at any time according to the judgment as to what is best for the class. Any changes will be declared ahead of time in class.

Syllabus Revised: June 26, 2015