



LINCOLN UNIVERSITY

DI 130 – OB/GYN Ultrasound II

Course Syllabus

Term: Summer 2014
Course No. & Title: DI 130 – OB/GYN Ultrasound II
Instructor: Dr. Deepak Tolia, MD, RDMS, RVT
Units: 3 units = 45 lecture hours
Class Hours: **Tuesdays & Thursdays, 3:30 PM – 6:15 PM**
Contact: 510-238-9744
Email: dtolia@lincolnuca.edu

REQUIRED TEXTBOOK:

Hagen-Ansert: Textbook of Diagnostic Ultrasonography, Vol. 1&2
7th Edition (2011), ISBN-10: **0323073018**, ISBN-13: **978-0323073011**
Previous edition (6th) is acceptable:
6th Edition (2006), ISBN-10: **0323028039**, ISBN-13: **978-0323028035**

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, correlation of 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 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 Power Point;
- Recommended study guide activities;
- Internet resources;
- Group discussions and ultrasound case analyses;
- Quizzes & examinations;
- Working with ultrasound machines;
- Students' ultrasound hands-on self-study training.

REQUIREMENTS:

- The student is expected to be prepared in advance before the class sessions.
- Being prepared includes the following: having read text materials (e.g., reading textbook 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.
- The student is 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.
- The student should understand that "introductory" does not mean "easy."
- The student 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 student 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.

IN-CLASS PRESENTATION (PROJECT):

Each student prepares a PowerPoint presentation on an ultrasound vascular diagnostic topic of his/her choice. The presentation should be approximately 10 minutes long, 5 minutes discussion. The topics and format for the presentation will be discussed in class. A final draft of the presentation must be submitted for review one week prior to the presentation. An article related to the presentation for students to review must also be submitted one week prior to the presentation. For the grading, students will be to prepare 3 questions from the topic submitted for the student presentation. The questions will be due on the day of each of the presentations and will be used to help guide class discussions of the presentation topics.

Evaluation Criteria for Presentation:

- Clinical statement
- Background information
- Slide content
- Slide design
- Resolution of the problem
- Oral presentation

TESTING:

❖ Quizzes

The student will take **10 tests; 10-15 questions each**. These quizzes will address the detailed content and major concepts presented in the lectures, lecture outlines, text readings, and study guide activities. 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 (the student will receive no score for missed quizzes).

❖ Midterm & Final Examinations

- **The student 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.**
- The student 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 a circumstance, 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	30%
Final Exam	30%
Tests/Quizzes	20%
Presentation	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
49≤	F

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	Tests
1	Tu	6/10/2014	Obstetrics – First Trimester (1) Normal Sonographic Anatomy	
	Th	6/12/2014	Obstetrics – First Trimester (2) Pathology for Sonographers	Test #1
2	Tu	6/17/2014	Obstetrics – First Trimester (3) Sonography in Chromosomal Anomalies	Test #2
	Th	6/19/2014	Obstetrics – First Trimester (4) Hydrops Fetalis; Multiple Gestations	Test #3
3	Tu	6/24/2014	Obstetrics – Second & Third Trimesters (1) IUGR	Test #4
	Th	6/26/2014	Obstetrics – Second & Third Trimesters (2) Placenta and Amniotic Fluid	Test #5
4	Tu	7/1/2014	Obstetrics – Second & Third Trimesters (3) CNS Anomalies	Test #6
	Th	7/3/2014	Obstetrics – Second & Third Trimesters (4) CVS Anomalies	Test #7

5	Tu	7/8/2014	Obstetrics – MIDTERM (50 questions)	
	Th	7/10/2014	Obstetrics – Second & Third Trimesters (5) Skeletal Anomalies	
6	Tu	7/15/2014	Obstetrics – Second & Third Trimesters (6) GIT Anomalies	Test #8
	Th	7/17/2014	Obstetrics – Second & Third Trimesters (7) Urinary Tract Anomalies	Test #9
7	Tu	7/22/2014	Review of Lectures	Test #10
	Th	7/24/2014	FINAL EXAM – WRITTEN (100 questions)	

Meeting during the office hour:

By appointment only between 2:30 PM and 3:30 PM on Tuesday and Thursday.

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 Updated: 6/13/2014