

LINCOLN UNIVERSITY

DI 120 – Obstetrics Gynecology US

Spring 2017

Course Syllabus

Credit: 4 units = 3-unit lecture and 1-unit lab
(75 total contact hours = 45 lecture hours + 30 lab hours)

Class Sessions: **Wednesday 12:30 am – 3:15 pm (Lecture)**
Instructor (Lecture): Dr. Ludmila Zakasovskaya,
MD, RDMS (ABD, BRT, OB/GYN), RVT

Lab Sessions: **Wednesday 3:30 pm – 6:15 am (Lab)**
Instructor (Lab): Dr. L.Zakasovskaya 02/22 – 04/19

Contact: Dr. Ludmila Zakasovskaya
ludmilazak@gmail.com or lzakasovskaya@lincolnuca.edu
Office Hours: by appointment

REQUIRED TEXTBOOK:

OBSTETRICS AND GYNECOLOGY BY SUSAN RAATZ STEPHENSON , MA. ED,
RDMS, RVT, RT. THIRD EDITION (2012)
ISBN-13: **978-1-60831-117-0**, ISBN-10: 1-60831-117-1

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

PRE-REQUISITE: DI 110

COURSE DESCRIPTION:

This course is an in-depth study of the role of Sonography in examination of the Female Reproductive organs. Principles of Scanning Technique in Gynecologic and Obstetric Ultrasound.

Students are provided extensive didactic instruction in the development of comprehensive sonographic examination following AIUM guidelines.

Basic normal structural anatomy identification and demonstration as well as recognition of gross abnormalities.(4 units)

LEARNING OBJECTIVES:

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

- Explain the examination and instruct the patient properly
- Describe a scanning survey and explain its importance prior to taking images
- The correct identification of female pelvic organs.

- Describe optimal sonographic techniques for pelvic organs interpretation.
- Present films in a logical sequence
- Describe the anatomy, physiology, normal variations, and pathology of the female pelvic system no pregnant and during the pregnancy.
- Recognize normal/abnormal imaging, spectral Doppler and color Doppler Ultrasound findings.
- Explain the significance of clinical tests relevant to pathology within the female pelvic.
- Recognize ultrasound findings associated with Pregnancy.

INSTRUCTIONAL METHODS:

Instructional methods include lectures and in-class hands-on scanning. Classroom activities are collaborative –students may and should help each other. The instructor will be available to help students with all tutorials and other assignments. The previously described topics will be presented through the following activities:

- Assigned text reading;
- Lecture materials;
- Recommended study guide activities;
- Internet resources;
- Group discussions and ultrasound case analysis;
- Quizzes & examinations;
- Practice using ultrasound machines;
- Hands-on ultrasound laboratory protocols;
- Ultrasound laboratory live & video demonstrations;
- Students' Ultrasound Hands-on self study.

REQUIREMENTS:

- This is a lecture-lab course in which lecture topics are presented by the lector and the ultrasound hands-on lab practice is explained and demonstrated by the lab instructor.
- The student is expected to be prepared in advance of the class sessions.
- Preparation includes the following: having read text materials (e.g., textbook readings, 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 includes reading topic prior to the class.
- 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 attendance and being on time are crucial for final grade. 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 assignment failure to course failure.

ULTRASOUND HANDS-ON LABORATORY TRAINING:

Ultrasound hands-on laboratory training is primarily focused on providing students' with the physical execution of the information presented during the lectures. Practical experience will be gained under the guidance of the laboratory instructor. Students are expected to arrive to class on time, and stay through the end of Ultrasound laboratory class.

ATTENDANCE AND PARTICIPATION:

To successfully complete this course, the student must pass the quizzes, homework and final exam portions with a 70% or better. Students should attend all the class meetings (lectures and labs). However, considering possible urgent situations, students may be absent from maximum four class meetings with prior notice to the instructor. Three late arrivals will affect the grade.

The term grade is based on attendance, class activity, projects, midterm and/or sum of quizzes, final examination, and lab. Individual projects will be assigned at the beginning of the semester.

Homework and project are due by the last meeting before the final examination. No project or homework will be accepted after the due date.

If student misses a class without a valid reason, no make-up for quizzes and presentations is allowed. With valid document, a student is allowed to take missed tests within one week. There is no make up for missed or failed midterm. The final examination, if failed, can be retaken only once, on May 3, 2017. Dictionaries can be used during the class time. No electronic devices during the test time.

Exams must be taken 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 from the illness 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.

During the written exam, any student observed in a situation that could be considered suspicious (e.g., an open book within his/her field of vision, looking around or checking a cell phone or other wireless device, etc.) but no cheating is observed, will be warned. Once warned, any applicant found cheating on written exam will be failed for the exam and prohibited from retaking the written exam without permission from the dean.

Student cannot leave the room during the test/exam. As soon as student leaves, the exam is considered finished.

Lecture is not a substitute for textbooks. Students should read textbooks and use other sources to be prepared for the tests. Lecture is to guide the student for preparation to subject.

IN-CLASS PRESENTATION (PROJECT):

Each student can choose the topic for presentation or will be assigned one by the instructor.

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.

Evaluation Criteria for Presentation:

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

TESTING:

Ultrasound Hands-on Laboratory Examination:

- Final ultrasound hands-on examination – students have to demonstrate understanding of information presented during lectures and hands-on laboratory training.
- Students have to perform different ultrasound protocols and demonstrate scanning technique and images in B-mode, M-mode, Color and Spectral Doppler.
- Students required to schedule time and date 2-3 week ahead for Ultrasound hands-on laboratory examination.
- Students need to be at the Ultrasound Lab, ready to start scanning at the exact scheduled time. (It is recommended that the student arrive about 15 minutes prior to the scheduled exam time.)
- If a student is late for the scheduled exam time, the time CANNOT be changed and the student will NOT get a full hour! The student will only have the remaining time left in the hour.
- Only one time **RETESTS** will be given to students with a valid excuse such as illness, family emergency, unforeseen heavy traffic or natural disaster.

GRADING:

Evaluation		Weighting
Lecture	Attendance	10%
	Tests/Quizzes	10%
	Presentation	10%
	Midterm	20%
	Final exam	20%
Laboratory	Attendance	10%
	Scanning Performance	20%
Total		100%

%	Grades
100-94	A
93-90	A-
89-87	B+
86-84	B
83-81	B-
80-78	C+
77-76	C
75-74	C-
73-72	D+
71-70	D
69<	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, he or she 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.
- **Disruptive behavior will not be tolerated**
- Students engaging in disruptive behavior in class will be asked to leave and may be subject to other penalties if the behavior continues.
- No eating, sleeping or personal grooming is permitted during lecture and ultrasound laboratory classes.
- Drinks only in closed container.
- Please turn off your cell phones
- 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.

LECTURE SCHEDULE: Wednesday 12:30 pm – 3:15 pm (Dr. Zakasovskaya)

WEEKS	LECTURE #	DATES	TOPICS	QUIZ
WEEK 1	1	01/18/17	PRINCIPLES OF SCANNING TECHNIQUE IN OB/GYN US NORMAL ANATOMY OF FEMALE PELVIS	

WEEK 2	2	01/25/17	EMBRYONIC DEVELOPMENT OF THE FEMALE GENITAL SYSTEM CONGENITAL ANOMALIES	1
WEEK 3	3	02/01/17	THE FEMALE CYCLE	2
WEEK 4	4	02/08/17	PEDIATRIC PELVIS	3
WEEK 5	5	02/15/17	BENIGN DISEASE OF THE FEMALE PELVIS	4
WEEK 6	6	02/22/17	MALIGNANT DISEASE OF THE UTERUS AND CERVIX	5
WEEK 7	7	03/01/17	MALIGNANT DISEASE OF THE OVARY	6
WEEK 8		03/08/17	MIDTERM WRITTEN EXAM	
WEEK 9	8	03/22/17	PELVIC INFLAMMATORY DISEASE AND ENDOMETRIOSIS	7
WEEK 10	9	03/29/17	ASSISTED REPRODUCTIVE TECHNOLOGIES, CONTRACEPTION AND ELECTIVE ABORTION	8
Week 11	10	04/05/17	THE USE OF US IN THE FIRST TRIMESTER	9
Week 12	11	04/12/17	US DURING THE SECOND TRIMESTER	10

Week 13		04/19/16	Course Review for Final Exam
Week 14		04/26/17	Final exam
Week 15		05/03/17	Presentation

LAB SCHEDULE: WEDNESDAY 3:30 pm – 6:15 pm (Dr. L.Zakasovskaya)

Week #	Dates	Topics:
Week 1	02/15	Pelvic US Protocols, Ergonomics
Week 2	02/22	Pelvic US
Week 3	03/01	Pelvic US
Week 4	03/08	Pelvic US
Week 5	03/22	Pelvic US
Week 6	03/29	Sonographic examination protocol for First trimester Obstetrics following AIUM guidelines
Week 7	04/05	Sonographic examination protocol for First trimester Obstetrics following AIUM guidelines
Week 8	04/12	Sonographic examination protocol for Second trimester Obstetrics following AIUM guidelines

Note: Instructor may change this syllabus and course schedule any time according to the judgment as to what is best for the class. Any changes will be declared ahead of time in class. Students will scan to liver, internal body parts to protocol and body parts will be available for lab discussion in weeks listed above.

Lab Grading Requirements:

***Scanning to performance:** Effective use of lab time, development of scanning skills, applying techniques, effective use of ultrasound machine (s) controls, IE: TGC, Depth PRF, Freq. Transducers to improve images on each patient. No Cell Phones Allowed.

***Attendance:** Being punctual, participation and working during class time. Absents, late arrivals, non-use of class times, early leaves will reflect student(s) lower and or failing grade.

***Mid Term, Final:** Exams will focus on protocol, annotations to body images, quality of images, demonstrating proper use of the ultrasound machines in control adjustments to obtain the best body images, basic knowledge of anatomy. Exams, protocol to images must be completed within allowed time. Non-completion, poor behavior, disruption, requiring assistants or dishonesty will result in failing exam and course.

Syllabus updated: 01/2017