

LINCOLN UNIVERSITY

DI 160 – Abdomen and Small Parts II

Summer 2014

Course Syllabus

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

Class Hours: Monday and Wednesday 3:30 – 6:15 pm (Lecture),
Tuesday and Thursday 9:00 am – 1:30 pm (Lab, June 10 – July 1)

Instructor: Dr. Olga Vinyard, MD, RDMS (Abdomen, Breast, OB/GYN), RVT

Contact: olga.vinyard@yahoo.com or ovinyard@lincolnuca.edu

Office Hours: Monday 11:00 am – 12:00 noon

REQUIRED TEXTBOOK:

Textbook of Diagnostic Ultrasonography: 1st Volume, Sandra L. Hagen-Ansert
2006, ISBN-10: 0323028039

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

PRE-REQUISITE: DI 150

COURSE DESCRIPTION:

This course is a continuation of study of anatomy and pathology of abdominal and superficial structures in ultrasound imaging. Areas of consideration include thyroid, parathyroid, breast, neck, lymph nodes, gastrointestinal tract, as well as scanning techniques and performances following standard protocols. (4 units)

LEARNING OBJECTIVES:

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

- Assist patients to and from the exam area
- Explain the examination and instruct the patient properly
- Describe a scanning survey and explain its importance prior to taking images
- Explain the selection of the proper transducer for the exam
- Explain the elements of film labeling
- Describe optimal techniques related to field size, power, gain, and contrast for image interpretation
- Present films in a logical sequence
- Describe the anatomy, physiology, normal variations, and pathology of the peritoneum, abdominal wall, retroperitoneum, peripheral and abdominal lymph nodes, thyroid and parathyroid glands, breast, scrotum, prostate, GI tract with appendix and identify the normal and abnormal sonographic appearances of these structures
- Demonstrate knowledge of abdominal pathological findings
- Explain the significance of clinical tests relevant to pathology within the abdomen
- Explain the sonographic findings and differential diagnosis of abdomen pathology

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 lecturer 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 at 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 term. 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 a 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 July 25, 2014. 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.

A student cannot leave the room during the test/exam. As soon as the 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 in preparation for subjects.

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 are required to schedule time and date 2-3 weeks 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
100-93	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, 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.

SCHEDULE:

Weeks	Lecture #	Dates	Topics	Quiz
Week 1	1	06/09/14	Sonography and Pathology of the Peritoneum	
Week 1	1	06/11/14	Sonography and Pathology of the Abdominal Wall	
Week 2	2	06/16/14	Sonography and Pathology of Retroperitoneum and Noncardiac Chest	1
Week 2	3	06/18/14	Sonography and Pathology of GI Tract	2
Week 3	4	06/23/14	Sonography and Pathology of the Appendix	3
Week 3	5	06/25/14	Sonography and Pathology of Lymphatic System	4
Week 4	6	06/30/14	MIDTERM	
Week 4		07/02/14	Pathology of the Thyroid and Parathyroid Glands	
Week 5	7	07/07/14	Anatomy of the Breast	5
Week 5	8	07/09/14	Pathology of the Breast	6
Week 6	9 and 10	07/14/14	Pathology of the Scrotum and Sonography and Pathology of the Prostate Gland	7

Week 6		07/16/14	Sonography and Pathology of the Superficial and Musculoskeletal Structures	8
Week 7		07/21/14	FINAL EXAM	
Week 7		07/23/14	PRESENTATIONS	

Syllabus updated: 05/16/14

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.