



# LINCOLN UNIVERSITY

## DI 160 – Abdomen and Small Parts II

### Fall 2016 Course Syllabus

**Credit:** 3 units = 3-unit lecture  
(45 total contact hours = 45 lecture hours)

**Class Hours:** **Monday & Wednesday** 12:30 PM TO 3:15PM

**Instructor:** Dr. Jaimini Shah RDMS (Abdomen, OB/GYN), RVT

**RDCS Contact:** [jshah@lincolnuca.edu](mailto:jshah@lincolnuca.edu)

**Office Hours:** Thursdays & Fridays by appointment

#### REQUIRED TEXTBOOK:

Textbook of Diagnostic Ultrasonography: Volume 1 & Volume 2,  
Sandra L. Hagen-Ansert 2006, ISBN-10: 0323028039

Reading resources:

Chapters from [www.Sonoworld.com](http://www.Sonoworld.com)

Images from [www.Ultrasoundcases.com](http://www.Ultrasoundcases.com) & [www.Ultrasounpedia.com](http://www.Ultrasounpedia.com)

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, Anterior abdominal wall & peritoneal cavity as well as scanning techniques and performances following standard protocols. (3 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 thyroid, parathyroid, lymph nodes & soft tissue masses in neck, breast, scrotum, GI tract with appendix, Anterior abdominal wall & Cavities Identify the normal and abnormal sonographic appearances of these structures

- Demonstrate knowledge of pathological findings
- Explain the significance of clinical tests relevant to pathology
- Explain the sonographic findings and differential diagnosis of them

**INSTRUCTIONAL METHODS:**

- 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 course in which lecture topics are presented by the lecturer.
- 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.

**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 Quizzes, presentations).

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. 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 07/26/2017. 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.

### **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 related to the topic of presentation. The images need to be dated and should indicate the student's name. 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 6 quizzes; 5-10 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 a student takes all quizzes, only the best of the quizzes 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).

### Attendance: 10%

Absences, late arrival, poor use of class times, early leaves will result in students' poor or failing grade.

### Midterm & Final examination

- The written examinations (multiple choice and true/false format are proctored and will be closed-book exams).
- Midterm Exam (30%) will cover all topics have been taught up to the date of exam.
- The second and last exam will cover all topics have been covered during semester.
- The scantron machine will be used in grading multiple-choice tests.
- A student must take the exam during the scheduled time period.
- There are no make-up exams.

## GRADING:

| GRADING FACTORS           | %          |
|---------------------------|------------|
| Final Exam                | 40         |
| Midterm Exam              | 30         |
| Quizzes                   | 10         |
| Attendance                | 10         |
| Homework and Presentation | 10         |
| <b>TOTAL</b>              | <b>100</b> |

| %      | 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.
- Read the section that is to be covered in class BEFORE the lecture to better understand examples being worked in class.
- Take a look at the assigned homework problems before attending class.
- Read the section one more time after class and then try the homework problems.

**Schedule: DI 160—Abdomen and Small Parts II  
Summer 2017**

| <b>Weeks</b> | <b>Lecture #</b> | <b>Date</b> | <b>Topics</b>                             | <b>Quiz</b> |
|--------------|------------------|-------------|---|-------------|
| 1            | 1                | 06/12/17    | Thyroid & Parathyroid                     |             |
|              | 2                | 06/14/17    | Neck masses                               |             |
| 2            | 3                | 06/19/17    | Breast 1                                  | 1           |
|              | 4                | 06/21/17    | Breast 2                                  |             |
| 3            | 5                | 06/26/17    | Scrotum 1                                 | 2           |
|              | 6                | 06/28/17    | Scrotum 2                                 |             |
| 4            | 7                | 07/03/17    | Gastrointestinal Tract                    | 3           |
|              | 8                | 07/05/17    | Case studies                              | 4           |
| 5            |                  | 07/10/17    | Mid Term Exam                             |             |
|              | 9                | 07/12/17    | Abdominal wall, Peritoneal cavity & Chest |             |
| 6            | 10               | 07/17/17    | Musculo-skeletal system                   | 5           |
|              | 11               | 07/19/17    | Student Presentation                      | 6           |
| 7            |                  | 07/24/17    | Case Studies                              |             |
|              |                  | 07/26/17    | FINAL EXAM                                |             |

**Syllabus updated: 06/02/2017**

**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.