

# Lincoln University

## Syllabus

**Semester:** Fall 2011

**Course Title:** Abdomen and Small Parts Scanning (Lab)

**Course Code:** DI 170 / UT 170

Credit: 4 units = 120 lab hours

Class Hours: Mondays & Wednesdays: 5:30 – 9:15 PM

Instructor: Ludmila Zakasovskaya MD, RDMS, RVT, SDMS

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### **Instructional Materials:**

1. Hagen-Ansert: Textbook of Diagnostic Ultrasonography, 6<sup>th</sup> Edition, vol#1.
2. Rumack, Carol. Diagnostic Ultrasound. St Louis, MO: Elsevier Mosby. Third Edition, 2005 (two-volume set)
3. Various videotapes, handouts, and other resources will be utilized time to time in this class.
4. Outside research using the internet, online e-global library.

### **Course Description:**

Scanning protocols and practice for ultrasound examination of abdomen and small parts.  
(4 units) *Prerequisite: DI 160 / UT 160*

This course presents human anatomy in various planes, and spatial relationships of organs to one another; presents anatomic detail in cross-sectional format, comparing ultrasound images of normal and abnormal structures. Various pathological conditions are covered, along with ultrasound diagnosis of these conditions.

**Prerequisites:** Entry into this class is granted after successful completion of all classes in the previous term with a minimum grade of “D” in each class.

**Course Objectives: Upon completion of the course, the student will:**

1. Be familiar with the cross sectional and sonographic anatomy of the Abdomen organs.
2. Understand and recognize the normal variations in the size, position, and location of the Abdomen organs.
3. Recognize the full spectrum of pathological conditions involving the Abdomen organs and their sonographic appearances.
4. Employ proper scanning technique for evaluation and documentation of normal and abnormal organs.
5. Principles and indications for Ultrasound – Guided Interventional Procedures.
6. Preliminary Reports.

**Instructional Methods:**

Instructional methods will include in-class hands-on learning activities. 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.

**Requirements:**

1. Student will complete the reading assignment and homework as assigned
2. Class attendances are mandatory.
3. Maintain a demeanor and show consideration for the views of others.

**Evaluation:**

1. Lab. Competencies; announced and unannounced
2. Case studies
3. Homework
4. Knowledge of the US. Exams Protocols

**Class Policies:** 1. Attendance: Mandatory

Attendance will be taken at the beginning of class. Student arriving after attendance has been taken or leaving prior to the end of the class will be marked absent for that day. If a student is absent, it is the student's responsibility to retrieve the missed notes, presentations etc.

**Grading:**

ATTENDANCE	10%
PRESENTATION	20%
PERFORMANCE SCANNING PROTOCOLS	30%
FINAL EXAM	40%
<b>TOTAL</b>	<b>100%</b>

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

**Course Outline:**

Order of topics subject to change:

1. Sonographic terms and appearance, cross –sectional planes in abdominal scanning.	Week 1
2. Normal Anatomy and Physiology of the Abdominal organs , Scanning Protocols	Week 1
3. Liver normal and abnormal appearance	Week 2
4. Right Upper Quadrant pain, mass, Abnormal liver functional test	Week 3
5. Gallbladder and Biliary Tree, Jaundice	Week 4
6. Epigastric pain, upper abdominal pain, Pancreas	Week 5

7. Spleen, Palpable Left upper quadrant mass	Week 7
8. Kidney, Urinary Bladder, Renal Failure, Renal Mass, Hematuria	Week 8
9. Palpable Left Upper Quadrant Mass, Adrenal Mass	Week 9
10. Pain in the Testicle, Possible Testicular Mass	Week 10
11. Prostate Gland, Benign Prostatic Hypertrophy	Week 11
12. Pediatric Ultrasound	Week 12
13. Neck Mass, Thyroid Ultrasound	Week 13
14. Breast Ultrasound	Week 14
15. Case Presentation, Final Exam	Week 15

Syllabus revised: 8/30/2011