



LINCOLN UNIVERSITY

DI/UT 170 – Abdomen and Small Parts Scanning (Lab) Spring 2013 Course Syllabus

Academic Term: Spring Semester 2013

Dates: 01/22/2013 – 05/13/2013

Course Number: DI 170 / UT 170

Lab Instructor: Richard Yee, RDMS (AB, OB/GYN)
Deepak Tolia, MD, RDMS, RVT

Contact: ryee@lincolnuca.edu, dtolia@lincolnuca.edu

Credit: 3 Units of Lab = 90 Lab Hours

Class Hours: 9:00 – 12:45, M & Th

Course Description:

Scanning protocols and practice for ultrasound examination of abdomen and small parts. (3 units)

Prerequisite: DI 160 / UT 160

Learning Objectives:

- Ultrasound ergonomics
- Anatomy of the Abdomen and Small Parts
- Basic anatomy images, protocols: Liver, GB, Biliary System, Pancreas, Kidneys, Ureter, Bladder, Spleen, Aorta, IVC, Adrenal Gland, Hepatic Veins and Portal System
- Broad understanding of B-mode, Doppler, Color and Spectrum

Instructional Methods:

- Live demonstration ultrasound imaging of organs and vessels
- Laboratory hands-on training with clinical protocol handouts and requirements

Ultrasound Hands-on Laboratory Examination:

Quizzes: Demonstration of Images, Identification of Anatomy, Protocols Sequence and Times.

Final Exam (ultrasound hands-on examination):

Students have to demonstrate understanding on information presented primarily during hands-on laboratory trainings, i.e. Protocols Sequence, Images and Time requirements to complete the task.

- Student(s) need to be at the ultrasound lab ready to start scanning at the exact time per scheduled.
- Arrive about 15 minutes prior to your scheduled exam time.
- If a student is late for scheduled exam time, his/her time CANNOT be changed; and he/she will not get a full hour. If you are late, you will only have the remaining time left in your hour.
- On exam days, you may come to class, but it is not mandatory until your scheduled exam time.
- Only ONE-TIME RETEST will be given to students with a valid excuse: such as illness, family emergency, unforeseen heavy traffic or natural disaster.

Recommended Self-Study:

- Review anatomy location, patient's position, images techniques.
- Additional sources: Sonoworld.com, Ultrasoundpedia.com, Sonoaccess App.

Study Materials / Resources:

Textbook of Diagnostic Sonography: Vol. 1, Sandra L. Hagen-Ansert, 7th Edition (2011).
ISBN-10: **0323073018**, ISBN-13: **978-0323073011**

Grading:

Laboratory	Performance of scanning protocols	30%
	Midterm	30%
	Final Exam	30%
	Lab Attendance	10%
Total		100%

% Achieved	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

Schedule: DI/UT 170 Lab

Week #	Dates	Topics
Week 1	01/24 Thursday	Protocols, Ergonomics
Week 2	01/28 – 01/31	Pancreas
Week 3	02/04 – 02/07	Liver 1
Week 4	02/11 – 02/14	Liver 2
Week 5	02/21 Thursday	Abdominal Aorta & Inferior Vena Cava
Week 6	02/25 – 02/28	Portal Venous System
Week 7	03/04 – 03/07	GB & Biliary System
Week 8	03/11 – 03/14	Kidneys
Week 9	03/18 Monday	Adrenal Gland
Week 10	03/25 – 03/28	Spleen
Week 11	04/01 – 04/04	Ureter & Bladder
Week 12	04/08 – 04/11	Retroperitoneal / Appendix
Week 13	04/15 – 04/18	Thyroid, Parathyroid and Neck
Week 14	04/22 – 04/25	Breast
Week 15	04/29 – 05/02	Scrotum and Prostate
Week 16	05/06 – 05/09	Final Exam

Syllabus update: 01/24/2013

Note: Instructor may change this syllabus and course schedule any time according to his judgment as to what is best for the class. Any changes will be declared ahead of time in class.