

**DIAGNOSTIC MEDICAL SONOGRAPHY
CLINICAL SONOGRAPHY I**

**201220
Year I, Spring Term
SON1804L**

2 Credit Hours, 16 Contact Hours

Time: Tuesday **(See Clinical Rotation Schedule for hours)**
 Thursday

Prerequisites: SON 1000C

Corequisites: SON 1001C

Instructor: Linda Shaheen, RDMS Barbara Ball, BA,RT(R),RDMS
 Office – Bldg. 10-248 Office – Bldg. 10-247
 407/582-1143 (**Call for appt.**) 407/582-1191
 Cell: 407/782-2731 Home: 407/857-9538

Course Description: Supervised clinical experience and competency evaluation of professional interaction and performance of sonographic procedures with emphasis on patient care, ultrasound computer equipment orientation, cross-sectional imaging planes and performance of quality exams. This course includes learning activities designed to ensure competence in the basic use of computers.

Reference Material:

Tempkin, Betty Bates, Ultrasound Scanning: Principles and Protocols. Third Edition.

Davis, F. A., Tabor's Cyclopedic Medical Dictionary. F. A. David Company.

CLINICAL SONOGRAPHY I

Grading Scale:

A 95-100 (3.8 - 4.0)

B 90 - 94 (3.6 - 3.7)

C 85 - 89 (3.4 - 3.5)

Below 85 or 3.4 is unacceptable.

Clinical Evaluation 30% (completed after each clinical rotation)

* One exam competency 40% (must pass with 85% accuracy) **(DUE 4/12/12)**

(Renal, RUQ, or Abdomen)

**Assignments/final exam 30% (must pass with 85% accuracy)

(PLEASE GIVE CLIN. EVAL. FORM TO SITE ONE WEEK BEFORE ROTATION ENDS, AND COMPLETE ASSESSMENT OF CLINICAL SITE BY THE MONDAY IMMEDIATELY FOLLOWING END OF ROTATION).

****Assignments:**

Clinical Assignments (see each assignment for details) **(DUE 4/12/12)**

Machine Competencies (at each clinical rotation) **(UNSCHEDULED)**

Reading Assignment: *Who Moved My Cheese?* **(DUE 3/12/12) (part of lab grade)**

LATE ASSIGNMENTS WILL NOT BE ACCEPTED

***COMPUTER-BASED LEARNING ACTIVITY** -This learning activity is designed to ensure competence in the basic use of the ultrasound machine.

COMPETENCY MUST BE ATTEMPTED AND COMPLETED BY 4/12/12. COMPS. COMPLETED AFTER THIS DATE WILL BE AUTOMATICALLY LOWERED BY ONE LETTER GRADE. IF COMPETENCY IS NOT ATTEMPTED BEFORE THE DUE DATE, STUDENT WILL RECEIVE A ZERO. IF COMPETENCY IS ATTEMPTED BUT NOT PASSED BY THE TIME GRADES ARE TURNED IN, STUDENT WILL RECEIVE AN "INCOMPLETE." ONCE THE COMP. IS COMPLETED (must be done by the end of the first clinical rotation of the next term), IT WILL BE AUTOMATICALLY LOWERED BY ONE LETTER GRADE. (Any violation to Competency Policy will result in automatic failure of competency. See "Policies" icon for detailed Competency Policy.)

ATTENDANCE: (See "Policies icon for detailed Attendance Policy.)

Also posted on Blackboard are all clinical forms and program policies.

NOTE: One (1) point will be deducted from final clinical grade for each incidence of student not following instructions given in syllabus, assignment sheets, program policies (i.e., attendance, timecard, competency, clinical do's and don't's), and your Blackboard emails from clinical instructor. Please check your Blackboard Clinical I email daily.

CLINICAL SONOGRAPHY I

Student Responsibilities:

- The student must recognize, demonstrate and comply with the content in the Sonography Program Manual (“The Pink Book”).
- **The student must demonstrate proficiency in any ultrasound exam before attempting competency on that exam. Students must perform competencies on regularly scheduled clinical days (comps. may not be performed during “Clinical Enhancement Time” (extra or voluntary time). The student under no circumstances should attempt any competency on the first day of a new rotation. Additionally, should the attempted competency not be passed successfully, the student should wait for critique from VC Clinical Representative and counseling from VC Clinical Coordinator before attempting the competency again.**
- If you have any questions, concerns, or are having difficulty completing any of the course requirements, see the instructor ASAP. Valid communication must be either oral or written and must come directly from the student.
- The student must comply with all rules, policies and procedures of both VC and the clinical affiliates in which the rotation is being taught.
- The student must at all times adhere to the affiliate dress code, documentation, safety, infection and procedure policies. Students will be expected to have in their possession at all times their Clinical Performance Notebook. A student not adhering to affiliate and/or college policies will be dismissed from clinical as an absence. This will result in a grade reduction and make-up of the full clinical day. Further disciplinary action may also be taken.
- A demonstration of safe, courteous, cooperative and professional attitude throughout the course is essential. Any violation of safe practice, procedure or professional attitude may result in the student’s immediate dismissal from the facility and the program.
- Documentation in health care is critical. It is the student’s responsibility to ensure proper documentation of all student objectives in both the VC and affiliate records. The student is required to maintain accurate, legible and complete records to receive credit for objectives and assignments.
- Students are expected to always represent themselves as students and have hospital student ID visible at all times. Infractions not mentioned will be dealt with on a case-by-case basis.
- Students must reference and comply with their “Clinical Do’s and Don’t’s” during all clinical rotations.

CLINICAL SONOGRAPHY I (cont.)

DISCLAIMER:

Changes in the syllabus and/or schedule may be made at any time during the term by announcement of the professor. A revised syllabus may be issued at the discretion of the professor.

Course Objectives: The student will be able to demonstrate the following objectives with 85% accuracy.

A. Preparation for the examination:

1. Identify the correct patient and correct procedure
2. Introduce oneself to the patient
3. Explain the procedure to the patient
4. Check for proper patient preparation for the exam
5. Position patient appropriately for the exam
6. Choose the proper transducer
7. Describe the function of commonly used equipment controls
8. Identify appropriate settings for gain, power, TGC, and field size

B. Demonstrate the ability to identify the following structures:

1. Liver
2. Gallbladder, common bile duct
3. The abdominal aorta and major branches (Celiac axis, hepatic artery, splenic artery, SMA, renal arteries, common iliac arteries)
4. The IVC and major tributaries (common iliac veins, renal veins and hepatic veins)
5. The portal venous system (SMV, portal confluence, right and left portals)
6. Pancreas
7. Spleen
8. Right and left kidneys
9. Bladder
10. Uterus
11. Ovaries
12. Adnexa regions

C. Demonstrate the ability to obtain scans and measure the following:

1. Kidney dimensions
2. Aorta dimensions
3. Gallbladder dimensions
4. Common bile duct dimensions
5. Uterus and ovary dimensions

CLINICAL SONOGRAPHY I (cont.)

- D. Demonstrate the use of breathing techniques to facilitate imaging.
- E. Demonstrate the ability to perform abdominal exams, renal exams, gallbladder exams, pelvic exams on normal/average patients with minimal assistance.
- F. Distinguish normal and abnormal echo patterns for the following:
1. Hepatic and splenic parenchyma
 2. Abdominal aorta
 3. Renal collecting system
 4. Uterus
 5. Ovaries
- G. Demonstrate the ability to categorize pathology as:
1. Cystic
 2. Solid
 3. Complex
 4. Subphrenic
 5. Intrahepatic
 6. Subhepatic
 7. Extrauterine
 8. Intrauterine
 9. Ascites
 10. Fluid collections
- H. Demonstrate competence in the basic use of the computerized ultrasound machines.

DISCLAIMER: Changes in the syllabus and/or schedule may be made at any time during the term by announcement of the professor. A revised syllabus may be issued at the discretion of the professor.

Classroom/Lab policy regarding cell phones, video taping, and audio taping:

There is a no tolerance policy on audio and video taping in the classroom. Attempted taping of patients in the clinical area (video or audio) is grounds for dismissal from the program. Cell phones must be turned off in the classroom and in clinical environments and may be checked periodically for emergency messages during breaks.

CLINICAL SONOGRAPHY

Valencia Student Core Competencies:

The **Valencia Student Core Competencies** (Think, Value, Act, Communicate) are an established component of the College's curriculum development and review process. A detailed overview can be found in the current *Valencia Catalog*, pp.13-14, or on the Valencia Website <http://www.valenciacc.edu/competencies/default.asp>.

Students with Disabilities:

“Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two week of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities.”

WITHDRAWAL POLICY/PROCEDURE

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline (March 23, 2012). A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W.” Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F.” For a complete policy and procedure overview on Valencia Policy 4-07 please go to: <http://valenciacc.edu/generalcounsel/policydetail.cfm?RecordID>

ACADEMIC HONESTY

Cheating on assignments and test or plagiarism is unacceptable in the college community. Academic work submitted by a student is assumed to be the result of their own thought, research, or self-expression. Further, when a student borrows ideas, wording or organization from another source, they must acknowledge that in the appropriate manner. When an instructor has determined a student has cheated or plagiarized, he may award the student a failing grade for the assignment or the course.

Each student is expected to be in complete compliance with the college policy on academic honesty set forth in the Valencia College Catalog, and the Diagnostic Medical Sonography Program Manual.

Release of Student Information:

Throughout the Sonography Program and at the completion of the Sonography Program, information necessary for clinical affiliation and licensure will be sent to the appropriate agency.