DSAE 2437 3AO/5AO

CARDIAC SONOGRAPHY PATHOPHYSIOLOGY II

CREDIT

4 SCH Semester Credit Hours (3 hours lecture, 4 hours lab)

MODE OF INSTRUCTION

Face to Face Instruction

PREREQUISITE/CO-REQUISITE:

Passed all previous sonography courses.

COURSE DESCRIPTION

A continuation of Cardiac Sonography Pathophysiology I with emphasis on cardiovascular disease. A discussion of quantitative measurements and application of 2D, M-mode, Doppler and recognition of the sonographic appearances of select cardiovascular disease is stressed.

COURSE OBJECTIVES

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

- Evaluate the etiology signs and symptoms, treatment, and sonographic features of select cardiovascular disease.
- Integrate criteria for recognition, evaluation and quantification.

INSTRUCTOR CONTACT INFORMATION

| Instructor: | Melissa Mann Mark Adams | (Lecture/Lab) (Lab) |
|------------------|---|---------------------------|
| Email: | <u>mamann@lit.edu</u> <u>maadams@lit.edu</u> | |
| Office Phone: | Mrs. Mann 409-257 | -0057 |
| Office Location: | GATEWAY 114 | |
| Office Hours: | Please see Starfish t | o schedule an appointment |

REQUIRED TEXTBOOK AND MATERIALS

- 1. <u>The Notebook 8.0 edition, by Susan King DeWitt, BS, RDCS, RCS</u> <u>http://echocardiographer.tripod.com as well as the workbook that corresponds</u> <u>with this textbook.</u>
- 2. Computer with internet access
- 3. Webcam for taking exams



Suggested Textbook and Materials

1. Textbook of Clinical Echocardiography By: Catherine Otto MD ISBN#978-1-4160-5559-4

ATTENDANCE POLICY

Students are expected to be in class unless prior arrangements have been made Absences must be limited to serious illness and/or immediate family emergencies. <u>Three (3) lecture absences</u> <u>will result in a letter grade reduction. Two (2) lab absences will result in a 10 point grade</u> <u>reduction from the overall lab average. Excessive tardiness (more than 15 minutes/class or</u> <u>more than 2 consecutive classes)</u> will result in an absence being awarded. Also, leaving class early will result in an absence being awarded. In the event that LIT is forced to cancel classes due to inclement weather, DMS classes and clinical rotation will also be canceled. Notification of closures will be made through the LIT Emergency Notification System. Students out of the immediate broadcast area should contact the Program Director for information. <u>It is extremely</u> <u>important that students communicate with the faculty regarding absences by telephone</u> <u>and/or email at all times.</u>

- The terminology excused or unexcused absence does not apply to this class. All absences are equal. Therefore, no matter the circumstances involved in the student's absence it will be counted towards the total for the semester.
- The sign in sheet will be taken up 15 minutes after class starts. If you are more than 15 minutes late to class you will be counted absent. Also, if you leave the classroom for more than 15 minutes you will be counted absent.
- When absent, the student is required to contact the instructor and make them aware of the absence and to obtain any missed assignments and/or information for the missed class.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

| WEEK | ΤΟΡΙϹ | READINGS | ASSIGNMENTS (Due on this Date) |
|-----------------|--|---|-----------------------------------|
| 1 (6/3- 6/5) | Go over Syllabus and Class Rules Begin Valvular Disease/ MV Disease | Blackboard/ Notebook Chapter VIII Pages 161-182/195- 200 Unit I PPs and Homework Assignments via | |
| | | Blackboard | |

LECTURE COURSE CALENDAR

| - | | _, ,, ,, | |
|--------------|---------------------------|--------------------|----------------------|
| 2 | | Blackboard/ | |
| (6/10- 6/12) | | Notebook | |
| | | Chapter VIII | |
| | | Pages 161-182/195- | |
| | Mitral Valve Disease/ | 200 | |
| | Tricuspid Valve | Chapter X | |
| | Disease/Endocarditis | Pages 213-219 / | |
| | | Unit I PPs and | |
| | | Homework | |
| | | Assignments via | |
| | | Blackboard | |
| 3 | | Blackboard/ | |
| (6/17-6/19) | | Notebook | UNIT I TEST ON |
| | | Chapter VIII | Blackboard DURING |
| | | Pages 183-194/201- | CLASS |
| | <u>6/17 – UNIT TEST I</u> | 205 | <u>6/17/25</u> |
| | | Chapter IX | |
| | 6/19- EMANCIPATION DAY- | Pages 206-212/ | HOMEWORK FOR |
| | NO CLASS | Unit II PPs and | UNIT I TEST DUE |
| | | Homework | BEFORE TAKING |
| | | Assignments via | TEST ON 6/17/25 |
| | | Blackboard | |
| 4 | | Blackboard/ | |
| (6/24-6/26) | | Notebook | |
| | | Chapter VIII | |
| | | Pages 183-194/201- | |
| | Prosthetic Valves | 205 | |
| | Aortic Valve Disease/ | Chapter IX | |
| | Prosthetic Valves | Pages 206-212/ | |
| | | Unit II PPs and | |
| | | Homework | |
| | | Assignments via | |
| | | Blackboard | |
| 5 | Aortic Valve Disease/ | Blackboard/ | |
| (7/1-7/3) | Pulmonic Valve Disease | Notebook | |
| | | Chapter VIII | |
| | | Pages 183-194/201- | |
| | | 205 | |
| | | Chapter IX | |
| | | Pages 206-212/ | |
| | | Unit II PPs and | |
| | | Homework | |
| | | Assignments via | |
| | | Blackboard | |

| 6 | | Dissiberry (Netchersky | |
|--------------|--------------------------------|------------------------|----------------------|
| 6 | | Blackboard/ Notebook | UNIT II TEST ON |
| (7/8-7/10) | _ | | Blackboard DURING |
| | 7/8 – Pulmonic Valve Disease | | <u>CLASS</u> |
| | | | <u>7/10/25</u> |
| | | | |
| | <u>7/10- UNIT TEST II</u> | | HOMEWORK FOR |
| | | | UNIT II TEST DUE |
| | | | BEFORE TAKING |
| | | | TEST ON 7/10/25 |
| 7 | Cath Gradients/ Disease of the | Chapter VII | |
| (7/15 -7/17) | Aorta | Pages 148-160/ | |
| (//15 //1/) | Aorta | Blackboard/ Notebook | |
| | | Chapter XVIII | |
| | | , Pages 276-281/ | |
| | | Unit III PPs and | |
| | | Homework | |
| | | Assignments via | |
| | | Blackboard | |
| 8 | | | UNIT III TEST ON |
| (7/22-7/24) | | Blackboard/ Notebook | Blackboard DURING |
| | 7/22- UNIT TEST III | Chapter XVII | CLASS |
| | | Pages 266-275/ | 7/22/25 |
| | 7/24- Tumors/ | Unit IV PPs and | |
| | Thrombus/Masses/Neoplasms | Homework | HOMEWORK FOR |
| | and Missiles | Assignments via | UNIT III TEST DUE |
| | | Blackboard | BEFORE TAKING |
| | | | TEST ON 7/22/25 |
| 9 | | | UNIT IV TEST ON |
| (7/29-7/31) | | Blackboard/ Notebook | Blackboard DURING |
| (7/25 7/51) | 7/29- Tumors/ | Chapter XVII | CLASS |
| | Thrombus/Masses/Neoplasms | Pages 266-275/ | |
| | and Missiles | Unit IV PPs and | <u>7/31/25</u> |
| | | Homework | |
| | | Assignments via | HOMEWORK FOR |
| | <u>7/31 UNIT TEST IV</u> | Blackboard | UNIT IV TEST DUE |
| | | σιατκροαια | BEFORE TAKING |
| | | | TEST ON 7/31/25 |
| 10 | 8/5 - Review for Cumulative | Blackboard/ | FLASH CARD REVIEW |
| (8/5-8/7) | Lecture Final | Notebooks | <u>DUE</u> |
| | | All Chapters/PP from | before class on |
| | 8/7 – EXTRA LAB DAY | this semester | 8/5/25 |
| 11 | 8/12 – LECTURE FINAL | Protocol / Tips/ | FINAL EXAM ON |
| (8/12-8/14) | _ | Instructions found on | Blackboard DURING |
| | 8/14 - SCAN FINALS | Blackboard | <u>CLASS</u> |
| | | | <u>8/12/25</u> |

• This schedule is subject to change at the discretion of the instructor.

LAB COURSE CALENDAR

| DATE | LAB ACTIVITY | INFO NEEDED | ASSIGNMENTS (Due on this Date) |
|------|---|---|--|
| 6/3 | Practice Complete Echo/ Draw 7 # 1 | Protocol / Tips/ Instructions found on Blackboard | Draw 7 # 1 – DUE ON CORESOUND BY MIDNIGHT JUNE 3,2025 |
| 6/5 | Practice Complete Echo | Protocol / Tips/ Instructions found on Blackboard | |
| 6/10 | Practice Complete Echo / Draw 7 # 2 | Protocol / Tips/ Instructions found on Blackboard | Draw 7 # 2 – DUE ON CORESOUND BY MIDNIGHT JUNE 10,2025 |
| 6/12 | Practice Complete Echo | Protocol / Tips/ Instructions found on Blackboard | |
| 6/17 | <u>Complete Echo Scan Test</u> | | <u>SCAN TEST 1</u> JUNE 17, 2025 DUE BY <u>MIDNIGHT ON</u> <u>CORESOUND</u> |
| 6/19 | EMANCIPATION DAY- NO CLASS | | |
| 6/24 | Practice Stress Echo / Draw 7 # 3 | Protocol / Tips/ Instructions found on Blackboard | Draw 7 #3 – DUE ON CORESOUND BY MIDNIGHT JUNE 24,2025 |
| 6/26 | Practice Stress Echo / <u>Video Lab Quiz #1</u> <u>in Class</u> | Protocol / Tips/ Instructions found on Blackboard | VIDEO LAB QUIZ # 1 IN CLASS JUNE 26,2025 |
| 7/1 | Practice Stress Echo/ | Protocol / Tips/ Instructions found on Blackboard | |
| 7/3 | Practice Stress Echo/ | Protocol / Tips/ Instructions found on Blackboard | |

| 7/8 | | Protocol / Tips/ | SCAN TEST 2 |
|-------|-----------------------------|-----------------------|-----------------------------|
| //0 | Stress Echo Scan Test | Instructions found on | JULY 8,2025 DUE BY |
| | Stress Leno Scall Test | Blackboard | MIDNIGHT ON |
| | | Blackboald | CORESOUND |
| 7/10 | | Drotocol / Tips/ | Draw 7 #4 – DUE ON |
| 7/10 | Practice Pedoff/ SSN/ | Protocol / Tips/ | |
| | Sub. / | Instructions found on | CORESOUND BY |
| | <u>Draw 7 # 4</u> | Blackboard | MIDNIGHT |
| | | | JULY 10,2025 |
| 7/15 | Practice Pedoff/ SSN/ | Protocol / Tips/ | |
| | Sub./ | Instructions found on | |
| | | Blackboard | |
| 7/17 | Practice Pedoff/ SSN/ | Protocol / Tips/ | Draw 7 #5– DUE ON |
| | Sub. | Instructions found on | CORESOUND BY |
| | Draw 7 # 5 | Blackboard | MIDNIGHT |
| | <u></u> | | JULY 17, 2025 |
| 7/22 | | Protocol / Tips/ | <u>SCAN TEST 3</u> |
| | Pedoff/ SSN/ Sub Scan | Instructions found on | <u>JULY 22, 2025 DUE BY</u> |
| | <u>Test</u> | Blackboard | MIDNIGHT ON |
| | | | <u>CORESOUND</u> |
| 7/24 | Practice Complete Echo / | Protocol / Tips/ | VIDEO LAB QUIZ # 2 |
| | <u>Video Lab Quiz #2 in</u> | Instructions found on | IN CLASS |
| | <u>Class</u> | Blackboard | JULY 24, 2025 |
| 7/29 | | Protocol / Tips/ | Draw 7 #6– DUE ON |
| | Practice Complete Echo | Instructions found on | CORESOUND BY |
| | <u>Draw 7 # 6</u> | Blackboard | MIDNIGHT |
| | | | JULY 29, 2025 |
| 07/31 | | Protocol / Tips/ | Draw 7 #7– DUE ON |
| | | Instructions found on | CORESOUND BY |
| | | Blackboard | MIDNIGHT |
| | Drastica Complete Febr | | 7/31/25 |
| | Practice Complete Echo / | | |
| | Draw 7 # 7/ Video Lab | | VIDEO LAB QUIZ # 3 |
| | <u>Quiz # 3</u> | | DUE ONLINE BY |
| | | | MIDNIGHT |
| | | | SATURDAY, |
| | | | AUGUST 2, 2025 |
| 8/5 | | Protocol / Tips/ | SCAN TEST 4 |
| • - | Complete Echo Scan | Instructions found on | AUGUST 5, 2025 DUE |
| | <u>Test/</u> | Blackboard | BY MIDNIGHT ON |
| | <u>· •••</u> | | CORESOUND |
| | | | |
| 1 | | | |

| 8/7 | EXTRA LAB TIME- | Protocol / Tips/ | Draw 7 # 8 and # 9– |
|------|---------------------------------------|-------------------------|---------------------|
| | DURING LECTURE | Instructions found on | DUE ON CORESOUND |
| | Practice for Final / | Blackboard | BY MIDNIGHT |
| | Draw 7 # 8 & Draw 7 # 9 | | AUGUST 7, 2025 |
| 8/12 | | <u>Protocol / Tips/</u> | |
| | SCAN FINALS | Instructions found on | |
| | | Blackboard | |
| 8/14 | | <u>Protocol / Tips/</u> | |
| | SCAN FINALS | Instructions found on | |
| | | Blackboard | |
| | | Protocol / Tips/ | VIDEO LAB QUIZ # 4 |
| | Video Quiz # 4/ | Instructions found on | DUE ONLINE BY |
| | <u>Video Quiz # 4/</u> MAKEUP WORK | Blackboard | MIDNIGHT |
| | WAREOP WORK | | TUESDAY, |
| | | | AUGUST 12, 2025. |

• This schedule is subject to change at the discretion of the instructor.

COURSE EVALUATION

There are two components to this course, lecture and lab. They come together for a combined overall grade.

Final Semester grades will be calculated according to the following criteria:

- 1. Unit tests 39%
- 2. Final Exam 20%
- 3. Class Participation/Homework 5%
- 4. Lab 36%

| a. Lab Tests / Video Quizzes | (6.50% of the 36%) |
|---------------------------------|--------------------|
| b. Participation | (6.50% of the 36%) |
| c. Daily Grades | (13% of the 36%) |
| i. LOWEST GRADE WILL BE DROPPED | |
| d. Lab Final | (10% of the 36%) |
| | |

GRADE SCALE

- 93-100 A
- 85-92 B
- 77-84 C
- 69-76 D
- 0-68 F

Course Outline

A. Valvular Heart Disease

- a. Mitral valve
 - i. Stenosis
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - a. Congenital
 - b. Acquired/Degenerative/latrogenic/Obstructive
 - b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
 - ii. Regurgitation
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - b. Etiologies
 - a. Congenital
 - b. Acquired
 - c. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
- b. Aortic Valve
 - i. Stenosis
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - a. Congenital
 - b. Acquired/Degenerative/Iatrogenic/Obstructive
 - b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
 - ii. Regurgitation
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - a. Congenital
 - b. Acquired
 - b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
- c. Tricuspid Valve
 - i. Stenosis
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis

- a. Congenital
- b. Acquired/Degenerative/latrogenic/Obstructive
- b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
- ii. Regurgitation
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - a. Congenital
 - b. Acquired
 - b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
- d. Pulmonic valve
 - i. Stenosis
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/
 - Differential Diagnosis
 - a. Congenital
 - b. Acquired/Degenerative/latrogenic/Obstructive
 - b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
 - d.
 - ii. Regurgitation/ Pulmonary Hypertension
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - a. Congenital
 - b. Acquired
 - b. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
- e. Infectious Endocarditis
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - ii. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler

- f. Prosthetic valves
 - a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
 - ii. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler

B. Cath Gradients

C. Diseases of the Aorta/Great Vessels

- a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
- b. Evaluation
- c. By 2D
- d. By M-mode
- e. By Doppler

D. Tumors/ Thrombus/ Neoplasms/ Masses/ Missiles (Cardiac Trauma)

- a. Etiologies/ Signs / Symptoms /Clinical History/Treatment/ Differential Diagnosis
- ii. Evaluation
 - a. By 2D
 - b. By M-mode
 - c. By Doppler
- E. History/Physical Examinations/ Post Interventional procedure care and discharge/Immunologic disease Doppler Patterns

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <u>https://lit.edu/online-learning/online-learning-minimum-computer-requirements</u>. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the

Special Populations Coordinator at (409)-951-5708 or email <u>specialpopulations@lit.edu</u>. You may also visit the online resource at <u>Special Populations - Lamar Institute of Technology (lit.edu</u>).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at <u>www.lit.edu</u>. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

- 1. No food, drinks, or use of tobacco products in class.
- 2. Cell Phones and any other electronic devices must be turned off while in class.
- 3. Do not bring children to class.
- 4. All assignments are due at the beginning of class and/or when stated in the syllabus. <u>LATE</u> <u>ASSIGNMENTS WILL NOT BE ACCEPTED and will result in a grade of ZERO!</u>

5. Exam Administration and Attendance Policy

All exams will be conducted in person on the dates specified unless otherwise communicated by the instructor. Students are required to bring their own laptops to class on exam days and must have the most recent version of the Respondus LockDown Browser installed and functioning. If a student fails to attend a scheduled in-person exam, a penalty of 10 points per day will be deducted from their exam score until the exam is completed.

6. Online Exam Policy

In the event that an exam is moved online, the use of a webcam in conjunction with the Respondus LockDown Browser will be required. If a student fails to complete the exam by the specified deadline, a grade of zero will be assigned after midnight on the due date. Prior

to midnight, a deduction of 10 points per hour will be applied for late submissions, starting at the scheduled due time. For example, if an exam is due at 7:00 PM and is submitted at 7:01 PM, the grade will be reduced by 10 points. If submitted at 8:00 PM, the deduction will be 20 points, and so on. Note that the official due time will be determined by the individual instructor: the 7:00 PM time mentioned is for illustrative purposes only.

7. It shall be considered a breach of academic integrity (cheating) to use or possess on your body any of the following devices during any examination unless it is required for that examination and approved by the instructor: Cell phone, smart watch/watch phone, laptop, tablet, electronic communication devices (including optical), and earphones connected to or used as electronic communication devices.

<u>Cheating on any (lecture/lab) exam results in immediate dismissal from the program and an F for the course.</u>

- 8. All exams will be online on Blackboard. You will be using LockDown Browser with Webcam Monitoring. The rules for the tests are:
- Disable all notifications on your computer. This is how LockDown Browser is used to take a test.
 - Locate the "LockDown Browser" shortcut on the desktop and double-click it. (For Mac users, launch "LockDown Browser" from the Applications folder.)
 - If prompted to close a blocked program (e.g. screen capture, instant messaging) choose Yes.
 - Log into the course, navigate to the test and select it.
 - A Startup Sequence will guide the student through a webcam check and other items required by the instructor.
 - The test will then start.
 - .

20-point deductions for each occurrence:

- Where you are taking your exam must be well lit. If it is not well lit, you will have 20 points deducted from your test.
- Your face must be visible the entire length of the test. If your face cannot be seen even for a few seconds you will have 20 points deducted from your test.
- No music should be playing nor should a TV/radio/video be on in the background.
 - You may not read the questions out loud. If you do so, you automatically receive a 20-point deduction.
- You may not wear sunglasses, hats, hoodies, earbuds, headphones, etc. during the exam. Your ears must be fully visible the entire exam, failure to comply with this will be a 20-point deduction. If you do this on another exam it will turn into a 50-point deduction.

50-point reduction or a zero on the entire test

- You must be in a private location. If another person is seen or heard while you are taking your test this could be misconstrued as cheating resulting in a 50-point reduction or a zero. That is up the situation and your instructor.
- All phones, notes, books, and other papers must be removed from the testing location. If these items are seen during your exam, you receive an automatic zero on the exam.
- Do NOT leave the exam room for any reason, if you do, it is an automatic 50-point deduction.
- Any suspicious activity that appears to be cheating will result in a zero.

Testing Tips

- You must use Google Chrome browser.
 - You must have a webcam and a microphone attached to your computer.
 - Be prepared to scan the room with a camera, if you cannot move your computer, you will need to have a mirror available to assist with scanning the room.
 - It is the student's responsibility to ensure that ALL of the above requirements are met. By completing the verify signature portion of the exam, you are accepting responsibility for your actions during the exam. Failure to follow the requirements will result in deductions from your exam grade when reviewed by your Instructor.
- 9. You will have the length of the class to finish an exam. No extra time will be given.
- 10. If you fail any test, you are required to get ahold of me and schedule a collaborate session/in person session to review the material. It is your duty to be prepared for this meeting.
- 11. Any taping of the material, when we go over tests/ results, will be considered cheating and you will be dismissed from the program. It is our duty to prepare you for the registry.
- 12. Students with special needs and/or medical emergencies or situations should communicate with their instructor regarding individual exceptions/provisions. It is the student's responsibility to communicate such needs to the instructor.
- 13. There will be no extra credit assignments given in this course.
- 14. Additional class policies as defined by the individual course instructor and sonography handbook.