

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           (Lecture/Lab)  
                              Mark Adams           (Lab)

Email:                   [mamann@lit.edu](mailto:mamann@lit.edu)  
                              [maadams@lit.edu](mailto:maadams@lit.edu)

Office Phone:         Mrs. Mann 409-257-0057

Office Location:     GATEWAY 114

Office Hours:         Please see Starfish to schedule an appointment

### REQUIRED TEXTBOOK AND MATERIALS

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

Approved: MM/ 2026



**LAMAR INSTITUTE  
OF TECHNOLOGY**

## 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. **Three (3) lecture absences will result in a letter grade reduction. Two (2) lab absences will result in a 10 point grade reduction from the overall lab average. Excessive tardiness (more than 15 minutes/class or more than 2 consecutive classes)** 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 local radio and TV stations. Students out of the immediate broadcast area should contact the Program Director for information. **It is extremely important that students communicate with the faculty regarding absences by telephone and/or email at all times.**

## DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process by the specified date as listed in the College Calendar on the [Student Success](#) web page. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

## LECTURE COURSE CALENDAR

| WEEK             | TOPIC  | READINGS  | ASSIGNMENTS<br>(Due on this Date) |
|------------------|--|---|-----------------------------------|
| 1<br>(6/2- 6/4)  | Go over Syllabus<br>and Class Rules<br>Begin Valvular Disease/ MV<br>Disease | Blackboard/<br>Notebook<br>Chapter VIII<br>Pages 161-182/195-<br>200<br>Unit I PPs and<br>Homework<br>Assignments via<br>Blackboard |                                   |
| 2<br>(6/9- 6/11) | Mitral Valve Disease/<br>Tricuspid Valve<br>Disease/Endocarditis             | Blackboard/<br>Notebook<br>Chapter VIII<br>Pages 161-182/195-<br>200<br>Chapter X<br>Pages 213-219 /                                |                                   |

|                          |   |  |  |
|--------------------------|---|--|--|
|                          |   | <i>Unit I PPs and Homework Assignments via Blackboard</i>  |  |
| <b>3<br/>(6/16-6/18)</b> | <b><u>6/16 – UNIT TEST I</u></b><br><br><b>6/18 - Prosthetic Valves<br/>Aortic Valve Disease/<br/>Prosthetic Valves</b> | <i>Blackboard/<br/>Notebook<br/>Chapter VIII<br/>Pages 183-194/201-205<br/>Chapter IX<br/>Pages 206-212/<br/>Unit II PPs and Homework Assignments via Blackboard</i> | <b><u>UNIT I TEST ON Blackboard DURING CLASS 6/16/26</u></b><br><br><b><u>HOMEWORK FOR UNIT I TEST DUE BEFORE TAKING TEST ON 6/16/26</u></b> |
| <b>4<br/>(6/23-6/25)</b> | <b>6/23 Prosthetic Valves<br/>Aortic Valve Disease/<br/>Prosthetic Valves</b><br><br><b>6/25 – EXTENDED LAB</b>         | <i>Blackboard/<br/>Notebook<br/>Chapter VIII<br/>Pages 183-194/201-205<br/>Chapter IX<br/>Pages 206-212/<br/>Unit II PPs and Homework Assignments via Blackboard</i> |  |
| <b>5<br/>(6/30-7/2)</b>  | <b>Aortic Valve Disease/<br/>Pulmonic Valve Disease</b>   | <i>Blackboard/<br/>Notebook<br/>Chapter VIII<br/>Pages 183-194/201-205<br/>Chapter IX<br/>Pages 206-212/<br/>Unit II PPs and Homework Assignments via Blackboard</i> |  |
| <b>6<br/>(7/9-7/11)</b>  | <b>7/9 – Pulmonic Valve Disease</b><br><br><b><u>7/11- UNIT TEST II</u></b>   | <i>Blackboard/ Notebook</i>  | <b><u>UNIT II TEST ON Blackboard DURING CLASS 7/11/26</u></b><br><br><b><u>HOMEWORK FOR UNIT II TEST DUE</u></b>                             |

|                           |  |  |  |
|---------------------------|--|--|--|
|                           |  |  | <b><u>BEFORE TAKING TEST ON 7/11/26</u></b>  |
| <b>7<br/>(7/14 -7/16)</b> | <b>Cath Gradients/ Disease of the Aorta</b>  | <i>Chapter VII<br/>Pages 148-160/<br/>Blackboard/ Notebook<br/>Chapter XVIII<br/>Pages 276-281/<br/>Unit III PPs and<br/>Homework<br/>Assignments via<br/>Blackboard</i> |  |
| <b>8<br/>(7/21-7/23)</b>  | <b><u>7/21- UNIT TEST III</u></b><br><br><b>7/23- Tumors/<br/>Thrombus/Masses/Neoplasms<br/>and Missiles</b> | Blackboard/ Notebook<br>Chapter XVII<br>Pages 266-275/<br>Unit IV PPs and<br>Homework<br>Assignments via<br>Blackboard   | <b><u>UNIT III TEST ON Blackboard DURING CLASS 7/21/26</u></b><br><br><b><u>HOMEWORK FOR UNIT III TEST DUE BEFORE TAKING TEST ON 7/21/26</u></b> |
| <b>9<br/>(7/28-7/30)</b>  | <b>7/28- Tumors/<br/>Thrombus/Masses/Neoplasms<br/>and Missiles</b><br><br><b><u>7/30 UNIT TEST IV</u></b>   | Blackboard/ Notebook<br>Chapter XVII<br>Pages 266-275/<br>Unit IV PPs and<br>Homework<br>Assignments via<br>Blackboard   | <b><u>UNIT IV TEST ON Blackboard DURING CLASS 7/30/26</u></b><br><br><b><u>HOMEWORK FOR UNIT IV TEST DUE BEFORE TAKING TEST ON 7/30/26</u></b>   |
| <b>10<br/>(8/4-8/6)</b>   | <b>8/4 - EXTRA LAB DAY</b><br><br><b>8/6 – - Review for Cumulative<br/>Lecture Final</b>                     | <i>Blackboard/<br/>Notebooks<br/>All Chapters/PP from<br/>this semester</i>  | <b><u>FLASH CARD REVIEW DUE BEFORE CLASS ON 8/6/26</u></b><br><br><b><u>COMMUNITY SERVICE HOURS DUE 8/6/26</u></b>                               |
| <b>11<br/>(8/11-8/13)</b> | <b>8/11 – SCAN FINALS</b><br><br><b>8/13 – LECTURE FINAL</b>   | Protocol / Tips/<br>Instructions found on<br>Blackboard  | <b><u>FINAL EXAM ON Blackboard DURING CLASS 8/13/26</u></b>  |

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

### LAB COURSE CALENDAR

| DATE | LAB ACTIVITY  | INFO NEEDED   | ASSIGNMENTS<br>(Due on this Date)  |
|------|---|---|--|
| 6/2  | Practice Complete Echo/<br><b><u>Draw 7 # 1</u></b>                                 | Protocol / Tips/<br>Instructions found on<br>Blackboard | <b>Draw 7 # 1 – DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JUNE 2, 2026</b>                              |
| 6/4  | Practice Complete Echo  | Protocol / Tips/<br>Instructions found on<br>Blackboard |  |
| 6/9  | Practice Complete Echo /<br><b><u>Draw 7 # 2</u></b>                                | Protocol / Tips/<br>Instructions found on<br>Blackboard | <b>Draw 7 # 2 – DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JUNE 9,2026</b>                               |
| 6/11 | Practice Complete Echo  | Protocol / Tips/<br>Instructions found on<br>Blackboard |  |
| 6/16 | <b><u>Complete Echo Scan Test</u></b>   |   | <b><u>SCAN TEST 1</u><br/><u>JUNE 16, 2026, DUE BY</u><br/><u>MIDNIGHT ON</u><br/><u>CORESOUND</u></b> |
| 6/18 | Practice Stress Echo /  | Protocol / Tips/<br>Instructions found on<br>Blackboard |  |
| 6/23 | Practice Stress Echo /<br><b><u>Video Lab Quiz #1</u></b><br><b><u>in Class</u></b> | Protocol / Tips/<br>Instructions found on<br>Blackboard | <b>VIDEO LAB QUIZ # 1<br/>IN CLASS<br/>JUNE 23,2026</b>  |
| 6/25 | Practice Stress Echo /<br><b><u>Draw 7 # 3</u></b><br><b><u>EXTENDED LAB</u></b>    | Protocol / Tips/<br>Instructions found on<br>Blackboard | <b>Draw 7 #3 – DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JUNE 25,2026</b>                               |
| 6/30 | Practice Stress Echo/   | Protocol / Tips/<br>Instructions found on<br>Blackboard |  |
| 7/2  | <b><u>Stress Echo Scan Test</u></b>   | Protocol / Tips/<br>Instructions found on<br>Blackboard | <b><u>SCAN TEST 2</u><br/><u>JULY 2,2026 DUE BY</u><br/><u>MIDNIGHT ON</u><br/><u>CORESOUND</u></b>    |

|              |  |  |  |
|--------------|--|--|--|
| <b>7/7</b>   | Practice Pedoff/ SSN/<br>Sub. /<br><b><u>Draw 7 # 4</u></b>  | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b>Draw 7 #4 – DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JULY 7, 2026</b>   |
| <b>7/9</b>   | Practice Pedoff/ SSN/<br>Sub./   | Protocol / Tips/<br>Instructions found on<br>Blackboard          |  |
| <b>7/14</b>  | Practice Pedoff/ SSN/<br>Sub.<br><b><u>Draw 7 # 5</u></b>  | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b>Draw 7 #5– DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JULY 14,2025</b>  |
| <b>7/16</b>  | <b><u>Pedoff/ SSN/ Sub Scan<br/>Test</u></b>   | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b><u>SCAN TEST 3<br/>JULY 16, 2026, DUE BY<br/>MIDNIGHT ON<br/>CORESOUND</u></b>  |
| <b>7/21</b>  | Practice Complete Echo /<br><b><u>Video Lab Quiz #2 in<br/>Class</u></b>                               | <b>Protocol / Tips/<br/>Instructions found on<br/>Blackboard</b> | <b>VIDEO LAB QUIZ # 2<br/>IN CLASS<br/>JULY 21,2026</b>  |
| <b>7/23</b>  | Practice Complete Echo<br><b><u>Draw 7 # 6</u></b>   | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b>Draw 7 #6– DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JULY 23,2026</b>  |
| <b>7/28</b>  | Practice Complete Echo /<br><b><u>Draw 7 # 7/ Video Lab<br/>Quiz # 3</u></b>                           | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b>Draw 7 #7– DUE ON<br/>CORESOUND BY<br/>MIDNIGHT<br/>JULY 28, 2026</b>   |
| <b>07/30</b> | <b><u>Complete Echo Scan<br/>Test/</u></b>   | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b><u>SCAN TEST 4<br/>JULY 30, 2026, DUE BY<br/>MIDNIGHT ON<br/>CORESOUND</u></b><br><br><b>VIDEO LAB QUIZ # 3<br/>DUE ONLINE BY<br/>MIDNIGHT<br/>SATURDAY,<br/>AUGUST 1, 2026</b> |
| <b>8/4</b>   | EXTRA LAB TIME–<br>DURING LECTURE<br>Practice for Final /<br><b><u>Draw 7 # 8 &amp; Draw 7 # 9</u></b> | Protocol / Tips/<br>Instructions found on<br>Blackboard          | <b>Draw 7 # 8 and # 9–<br/>DUE ON CORESOUND<br/>BY MIDNIGHT<br/>AUGUST 4, 2026</b>   |

|      |   |  |   |
|------|---|--|---|
| 8/6  | <u>SCAN FINALS</u>                      | <u>Protocol / Tips/<br/>Instructions found on<br/>Blackboard</u> |   |
| 8/11 | <u>SCAN FINALS/<br/>Video Quiz # 4/</u> | <u>Protocol / Tips/<br/>Instructions found on<br/>Blackboard</u> | VIDEO LAB QUIZ # 4<br>DUE ONLINE BY<br>MIDNIGHT<br>TUESDAY,<br>AUGUST 12, 2026. |
| 8/13 | MAKEUP WORK                             | Protocol / Tips/<br>Instructions found on<br>Blackboard          |   |
|      |   |  |   |

- 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. | <b>Unit tests</b>                                     | <b>39%</b>         |
| 2. | <b>Final Exam</b>                                     | <b>20%</b>         |
| 3. | <b>Class Participation/Homework/Community Service</b> | <b>5%</b>          |
| 4. | <b>Lab</b>  | <b>36%</b>         |
|    | 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. <b>LOWEST GRADE WILL BE DROPPED</b>                |                    |
|    | 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/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
    - 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/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
- d. Pulmonic 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
      - 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**

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the [LIT Online Experience](#) page. A functional broadband internet connection, such as DSL, cable, or WiFi 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 [specialpopulations@lit.edu](mailto:specialpopulations@lit.edu). You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

## **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 [www.lit.edu](http://www.lit.edu). Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

## **ARTIFICIAL INTELLIGENCE STATEMENT**

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

## **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. **LATE ASSIGNMENTS WILL NOT BE ACCEPTED and will result in a grade of ZERO!**
5. All exams will be on the dates specified unless the instructor makes a change. **If the student misses an exam due date, the student will be given a 0 after midnight on the day that it was due.** Before midnight the day of the test, the score will drop 10 points for every hour the exam is late beginning with the time it was due. For example, if the test is due at 7:00 and

the student turns in the exam at 7:01 the grade drops 10 points. At 8:00 pm, the grade will drop 20 points, etc. The time is set by the individual instructor so 7:00 pm is only an example.

6. 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.

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

7. 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 to 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.
- 8. You will have the length of the class to finish an exam. No extra time will be given.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. There will be no extra credit assignments given in this course.

13. Four hours of community service will be **REQUIRED** this semester in this course. These hours **must be approved by the instructor** prior to service.
  
14. Additional class policies as defined by the individual course instructor and sonography handbook.