## DSAE 2404 3A1/5A1

## ECHO EVALUATION OF PATHOLOGY I

#### 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**

Adult acquired cardiac pathologies. Topics include cardiovascular pathophysiology, quantitative measurements, and the application of 2-D, M-Mode, and Doppler. Recognition of the sonographic appearances of cardiovascular disease is stressed.

#### **COURSE OBJECTIVES**

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

- Describe the etiology, signs and symptoms, treatment and echocardiographic features of common valvular and myocardial diseases.
- Discuss the criteria for recognition, evaluation and quantification of these diseases.
- Identify pathophysiology and hemodynamic consequences.

#### 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 113	
Office Hours:	Please see Starfish to	o schedule an appointment

#### **REQUIRED TEXTBOOK AND MATERIALS**

- The Notebook 7.0 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

#### 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. 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	Review Syllabus/	Syllabus and Unit I PPs	
	Systolic Function/	Via Blackboard	
	Dysfunction PP		
2	Systolic Function/	Unit I PPs and	
	Dysfunction PP	Homework Assignments	
	•	via Blackboard	
3	Systolic Function/	Unit I PPs and	FEBRUARY 2, 2023
	Dysfunction PP	Homework Assignments	HOMEWORK FOR
		via Blackboard	<u>UNIT I TEST DUE</u>
	TEST 1		<b>BEFORE CLASS</b>
			<u>UNIT TEST I VIA</u>
			<b>BLACKBOARD</b>
			<b>COMPLETED</b>
			DURING CLASS
4	Ventricular	Unit II PPs and	
	Function/Dysfunction	Homework Assignments	
	РР	via Blackboard	
5	Ventricular	Unit II PPs and	
	Function/Dysfunction	Homework Assignments	
	РР	via Blackboard	

#### LECTURE COURSE CALENDAR

6	Ventricular	Unit II PPs and	
0			
	Function/Dysfunction	Homework Assignments	
-	PP	via Blackboard	
7	TEST 2/ Stress Echo PP	Unit II PPs and	FEBRUARY 28, 2023
		Homework Assignments	HOMEWORK FOR
		via Blackboard / Unit III	UNIT II TEST DUE
		PPs and Homework	BEFORE CLASS
		Assignments via	<u>UNIT TEST II VIA</u>
		Blackboard	<b>BLACKBOARD</b>
			COMPLETED
			DURING CLASS
8	Stress Echo PP/ TEST 3	Unit III PPs and	MARCH 9, 2023
		Homework Assignments	HOMEWORK FOR
		via Blackboard	<u>UNIT III TEST DUE</u>
			<b>BEFORE CLASS</b>
			<u>UNIT TEST III VIA</u>
			<b>BLACKBOARD</b>
			<b>COMPLETED</b>
			<b>DURING CLASS</b>
9	SPRING BREAK		
10	Ischemic Heart Disease	Unit IV PPs and	
	&	Homework Assignments	
	Myocarditis PPs	via Blackboard	
11	CHF/ TEST 4	Unit IV PPs and	MARCH 30, 2023
		Homework Assignments	HOMEWORK FOR
		via Blackboard	UNIT IV TEST DUE
			<b>BEFORE CLASS</b>
			UNIT TEST IV VIA
			BLACKBOARD
			COMPLETED
			DURING CLASS
12	Tamponade /	Unit V PPs and	
	Pericardial Effusion PP	Homework Assignments	
		via Blackboard	
13	Tamponade /	Unit V PPs and	
	Pericardial Effusion PP/	Homework Assignments	
	Extended Lab 4-13-23	via Blackboard	
14	TEST 5/ Review for Final	Unit V PPs and	APRIL 18, 2023
	,	Homework Assignments	HOMEWORK FOR
		via Blackboard	UNIT V TEST DUE
			BEFORE CLASS

		Homework Assignment #6 Documented (4 hours ) Community Service (INSTRUCTOR MUST APPROVE YOUR COMMUNITY SERVICE – SO PRIOR NOTIFICATION IS REQUIRED)	UNIT TEST V VIA BLACKBOARD COMPLETED DURING CLASS APRIL 20, 2023 COMMUNITY SERVICE HOURS ARE DUE ON BB BEFORE CLASS
15	RESEARCH PROJECTS	Topics, Instructions and Criteria Housed in BB	APRIL 25 and 27, 2023 TO BE PRESENTED
			DURING CLASS.
			ELECTRONIC COPY
			DUE ON APRIL 25 ON
			BB PRIOR TO CLASS.
16	<b>REVIEW FOR FINAL</b>		
	FINALS WEEK		MAY 9, 2023
			FINAL EXAM MUST BE
			TAKEN VIA
			BLACKBOARD BY
			NOON ON THIS DAY

• 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)
1/17	Review Scanning	Protocol / Tips/	
	MV/TV Doppler	Instructions found on	
		Blackboard	
1/19	MV/TV Doppler	Protocol / Tips/	
		Instructions found on	
		Blackboard	
1/24	MV/TV Doppler	Protocol / Tips/	
		Instructions found on	
		Blackboard	

1/26	MV/TV Doppler Test	Protocol / Tips/ Instructions found on Blackboard	<u>SCAN TEST 1</u> JANUARY 26, 2023 DUE <u>BY MIDNIGHT ON</u> <u>CORESOUND</u>
1/31	AOV/ PV Doppler	Protocol / Tips/ Instructions found on Blackboard	
2/02	AOV/PV Doppler Outside Practice	Protocol / Tips/ Instructions found on Blackboard	
2/07	AOV/ PV Doppler	Protocol / Tips/ Instructions found on Blackboard	
2/09	AOV/ PV Doppler	Protocol / Tips/ Instructions found on Blackboard	
2/14	AOV/ PV Doppler	Protocol / Tips/ Instructions found on Blackboard	
2/16	AOV/ PV Doppler Test	Protocol / Tips/ Instructions found on Blackboard	SCAN TEST 2 FEBRUARY 16, 2023 DUE BY MIDNIGHT ON CORESOUND
2/21	Parasternal Echo	Protocol / Tips/ Instructions found on Blackboard	
2/23	Parasternal Echo	Protocol / Tips/ Instructions found on Blackboard	
2/28	Parasternal Echo	Protocol / Tips/ Instructions found on Blackboard	
3/02	Parasternal Echo	Protocol / Tips/ Instructions found on Blackboard	<u>SCAN TEST 3</u> <u>MARCH 2, 2023 DUE BY</u> <u>MIDNIGHT ON</u> <u>CORESOUND</u>
3/07	Apical Echo	Protocol / Tips/ Instructions found on Blackboard	
3/09	Apical Echo	Protocol / Tips/ Instructions found on Blackboard	

3/14 &	SPRING BREAK /		
3/16	NO CLASS		
3/21	Apical Echo	Protocol / Tips/	
		Instructions found on	
		Blackboard	
3/23	Apical Echo Test	Protocol / Tips/	SCAN TEST 4
		Instructions found on	<u>MARCH 23, 2023 DUE</u>
		Blackboard	BY MIDNIGHT ON
			CORESOUND
3/28	Complete Echo	Protocol / Tips/	
		Instructions found on	
		Blackboard	
3/30	Complete Echo	Protocol / Tips/	
		Instructions found on	
		Blackboard	
4/04	Complete Echo	Protocol / Tips/	
		Instructions found on	
- /		Blackboard	
4/06	Complete Echo	Protocol / Tips/	
		Instructions found on	
		Blackboard	
4/11	WRITTEN PROTOCOL	Protocol / Tips/	TEST 5
4/11	TEST/	Instructions found on	APRIL 11, 2023 TAKEN
	TEST/ Practice Complete Echo	Instructions found on Blackboard	APRIL 11, 2023 TAKEN AND DUE IN CLASS
4/11 4/13	TEST/	Instructions found on Blackboard Protocol / Tips/	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6
	TEST/ Practice Complete Echo	Instructions found on Blackboard Protocol / Tips/ Instructions found on	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6 APRIL 13, 2023 DUE BY
	TEST/ Practice Complete Echo	Instructions found on Blackboard Protocol / Tips/	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6 APRIL 13, 2023 DUE BY MIDNIGHT ON
4/13	TEST/ Practice Complete Echo Complete Echo Test	Instructions found on Blackboard Protocol / Tips/ Instructions found on Blackboard	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6 APRIL 13, 2023 DUE BY
	TEST/ Practice Complete Echo	Instructions found on Blackboard Protocol / Tips/ Instructions found on Blackboard Protocol / Tips/	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6 APRIL 13, 2023 DUE BY MIDNIGHT ON
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4/13 4/18 4/20 4/25	TEST/         Practice Complete Echo         Complete Echo         Complete Echo         Complete Echo         Complete Echo         Complete Echo         Complete Echo	Instructions found on Blackboard Protocol / Tips/ Instructions found on Blackboard	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6 APRIL 13, 2023 DUE BY MIDNIGHT ON
4/13 4/18 4/20 4/25	TEST/         Practice Complete Echo         Complete Echo         Complete Echo         Complete Echo         Complete Echo         Complete Echo         Complete Echo	Instructions found on Blackboard Protocol / Tips/ Instructions found on Blackboard	APRIL 11, 2023 TAKEN AND DUE IN CLASS SCAN TEST 6 APRIL 13, 2023 DUE BY MIDNIGHT ON

5/02	SCAN FINALS	Protocol / Tips/ Instructions found on Blackboard	<u>SCAN TEST 7</u> MAY 02, 2023 DUE IN CLASS AFTER SCAN <u>FINAL</u>
5/04	SCAN FINALS	Protocol / Tips/ Instructions found on Blackboard	<u>SCAN TEST 7</u> MAY 04, 2023 DUE IN <u>CLASS AFTER SCAN</u> <u>FINAL</u>

• 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 grades will be calculated according to the following criteria:

Semester grades will be calculated from unit tests, lecture final exam , lab participation, lab scan tests, research assignment and homework assignments.

- Unit tests/ Final (59%)
  - (Unit Tests worth 39%/ Final Exam worth 20%)
- Research/ Power Point Project (10%)
- Homework (5%)
- Lab Participation (26%)
  - (25% lab grade will be scan tests/25% will be lab participation/50% will be Final Semester Scan)

#### **Course Outline**

- A. LIT
  - a. Policies
  - b. Academic calendar
  - c. Classroom policies
- B. Schedules
  - a. Lab schedule
  - b. Clinical schedule
  - c. Review previous semester cardiac anatomy and physiology.
  - d. Advanced cardiac anatomy and Physiology
  - e. Cardiac cycle
  - f. Cardiac Hemodynamics
  - g. Cardiac Doppler
  - h. Doppler equation

- i. Doppler Quantification
- C. Cardiac Physiology
  - a. Effects of abnormal pressures and loading
    - i. Volume concepts
    - ii. Afterload
    - iii. Preload
    - iv. Frank Starling's Law
- D. Physiological response of cardiac chambers to the following:
  - a. Increased volume
    - i. Preload (varying preload conditions)
    - ii. Frank Starling Law
  - b. Increased pressure
    - i. Afterload (varying afterload conditions)
    - ii. Hypertrophy
  - c. Pulmonary vascular disease
- E. Normal and Abnormal hemodynamics and flow patterns.
  - a. Miscellaneous measurements specific to patient history.
- F. Ventricular systolic function/dysfunction
  - a. Ejection Fraction
  - b. Simpson's method
  - c. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements
- G. Ventricular diastolic function/dysfunction
  - a. Chamber size
  - b. E to A ratio
  - c. PISA
  - d. Pulmonary veins
  - e. Tissue Doppler
  - f. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements
- H. Stress Echo
  - a. Indications/Contraindications/ Physical History
  - b. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements
- I. Heart failure
  - a. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements by echocardiographic features/ Treatments (Cardiac Assist Devices/ Intracardiac Devices/ Heart Transplant)
- J. Ischemic Heart Disease
  - a. Coronary Artery Anatomy/ Distribution Review/ Heart Cath Review
  - b. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements by echocardiographic features

- K. Myocarditis
  - a. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements by echocardiographic features
- L. Pericardial Disease/ Tamponade
  - a. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements by echocardiographic features
  - b. Interventional procedures/care/ IV administration techniques
- M. Hypertensive heart
  - a. Etiology/ Signs/ Symptoms/ Recognition/ Evaluation/ Quantification of normal/abnormal measurements by echocardiographic features

#### **GRADE SCALE**

- 93-100 A
- 85-92 B
- 77-84 C (must pass class with a 77 or higher to continue in program)
- 69-76 D
- 0-68 F

#### **TECHNICAL REQUIREMENTS**

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at <a href="https://lit.edu/online-learning/online-learning-minimum-computer-requirements">https://lit.edu/online-learning/online-learning-minimum-computer-requirements</a>. 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 <u>special Populations@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. Beepers, cell phones, head phones and any other electronic devices must be turned off while in class.
- 3. Do not bring children to class.
- 4. All exams will be on the dates specified unless the instructor makes a change. In case of an absence on exam day, the student will have a <u>10 point reduction on his/her test score</u>. The score will continue to drop 10 points for every class day missed following the test. Also, if the student attends any sonography classes on test day, he/she must take the test that day or a zero will be given. The student will have to make up the test if missed, the class day that the student returns.
- 5. The terminology excused or not excused 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.
- 6. All assignments are due when stated **at the beginning of class or online at the dates given on the syllabus.** Late assignments will result in a drop of 10 points per late day, and more than five days past due will result in a grade of **0**. Missed in-class assignments receive a grade of **0**.
- 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.

## a. <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. 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** 

- 1. 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.
- 2. 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.

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

- 10. You will have the length of the class to finish an exam. No extra time will be given.
- 11. Class roll is taken by the sign in sheets. If you did not sign in, you will be counted absent.
- 12. 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.
- 13. When absent, the student is required to contact the instructor to obtain make-up assignment for missed class. It is the student's responsibility to make up lecture/lab assignments or a grade of zero will be given.
- 14. If you wish to drop a course, the student is 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.
- 15. There will be no extra credit assignments given in this course.
- 16. 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.
- 17. If you fail any test, you are required to get ahold of me and schedule a collaborate session to review the material. It is your duty to be prepared for this meeting.
- 18. 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.

- 19. Four hours of community service will be **<u>REOUIRED</u>** this semester in this course. These hours **must be approved by the instructor** prior to service.
- 20. Additional class policies as defined by the individual course instructor and sonography handbook.