

Jackson College
DMS 240 Adult Echo II
4 Credit hours
Online Delivery
Fall 2014

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Office Hours:
Mondays 9 – 3 pm
Tuesday 11 – 3 pm

Students should not hesitate to contact me as needed. The best method is through the JCC course management system, JetNet message or email. I will reply within 24-36 hours unless notice is given otherwise.

COURSE DESCRIPTION: This online course will present the learner the information to develop necessary critical thinking skills needed to perform an echocardiogram according to standards set by the American Society of Echocardiography. This course contains material that meets or exceeds the minimum standards outline set forth by the American Registry of Diagnostic Medical Sonographers. Content of course material will include extensive descriptions of cardiac pathologies and pathophysiology. Advanced scanning techniques are continued in this course. Advanced interpretation of the echocardiogram is implemented into the previously acquired knowledge base. Students will be meeting or exceeding established standards set for quality in performance of cardiac sonography. This advanced course contains materials and instruction that will assist the student in meeting the final objective of performing and evaluating the complete adult echocardiogram.

PRE-REQUISITES: Pre-requisites for this course are DMS 140, DMS 141, and DMS 144.

TEXTS REQUIRED:

- Reynolds, Terry, *The Echocardiographer's Pocket Reference* Third Edition, Arizona Heart Institute, Ph. 800.835.2920.
- Otto, Catherine M. *Textbook of Clinical Echocardiography*, Fourth Edition, W.B. Saunders Company 2000.
- Anderson, Bonita, *Echocardiography The Normal Examination and Echocardiography Measurements*, Second Edition.
- Harry, Mark J. *Cardiac Doppler Hemodynamic Workbook*.
- Feigenbaum, Armstrong, Ryan, *Feigenbaum's Echocardiography*, Seventh Edition.

COURSE SCHEDULE OF ASSIGNMENTS AND REQUIREMENTS: Reading assignments must be completed prior to each class in order to maximize learning.

ASSOCIATE DEGREE OUTCOME (ADO) ADDRESSED IN THIS COURSE:
The Board of Trustees of Jackson College has determined that all JC graduates should develop or enhance certain essential skills while enrolled in the college. The ADO addressed within this course is ADO 7, Critical Thinking.

*Syllabus is subject to modification as needed throughout the course. See JetNet for assignment instructions and due dates.

Week 1 Sept. 2

Cardiomyopathy Dilated and Hypertrophic
Otto pg 212-226, 250-253, 484, 486-487
Otto LV non-compaction pg 230
Feigenbaum pgs 507-537, 539-554,
Feigenbaum Images and Video Clips pgs 507-537, 539-554

Week 2 Sept. 9

Cardiomyopathy Restrictive
Hypertensive Heart Disease
Pulmonary Hypertension and Pulmonary Heart Disease
Otto pgs 226-230, ischemic CM pg 206-208
Feigenbaum pgs 554-560 including images and videos on DVD
Otto pgs 231-234, 235-238
HCM Handout and Questions
Quiz 1 Myopathies and Pulm Heart Disease

Week 3 Sept. 16

Pericardial Disease
Otto pgs 242-257, 488
Feigenbaum pgs 241-261 including images and videos
Quiz 2 Pericardial disease

Week 4 Sept. 23

Test I

Week 5 Sept. 30

Cardiac Tumors and Masses
Otto pgs 377-394, 500-501
Feigenbaum pgs 711-738 including images videos on DVD
Endocarditis
Otto pgs 355-374
Feigenbaum pgs 361-383 including images and videos on DVD

Week 6 Oct. 7

Midterm

Week 7 Oct. 14

Congenital Heart Disease and Evaluation of the Adult With CHD

Otto pg 418-446, 503-504

Feigenbaum pgs 561-632

Quiz 3 CHD

Week 8 Oct. 21

Cardiac Transplantation

Otto pgs 234-235

Feigenbaum pgs 527-530 including images and videos on DVD

Cardiac Transplantation Feigenbaum 538-540

Ventricular Assist Devices Feigenbaum pgs 530-534 including images and video on DVD

Week 9 Oct. 28

Prosthetic Heart Valves

Otto pgs 326-350, 496, 497

Feigenbaum pgs 385-420 including images and video on DVD

Quiz 4 Prosthetic Valves and Cardiac Transplant

Week 10 Nov. 4

Diseases of the Great Vessels

Otto pgs 326-352

Feigenbaum pgs 633-664 including images and video on DVD

Submit Test Questions

Quiz 5

Week 11 Nov. 11

TEE Otto pgs 64-87

Contrast Otto pgs 97-99

Clinical Indications for Echo Otto 108-122

3D Echo Otto pgs 88-89

Strain Otto pgs 91-97

Cardiac Resynchronization Therapy (CRT) Feigenbaum pgs 523-527

ICE Otto pg 100-103

IVUS and Handheld Otto 103-104

Q & A

Week 12 Nov. 18

Right Heart

Week 13 Nov. 25

TBA

Week 14 Dec. 2

Study for Final Exam

Week 15 Dec. 9

Final exam

GRADING SYSTEM:

Quiz 1 = 40 pts

Quiz 2 = 22 pts

Quiz 3 = 10 pts

Quiz 4 = 32 pts

Quiz 5 = 25 pts

Harry Assignment at 10 pts.

1 Test at 55 pts

1 MidTerm exam at 156 pts

1 Final Exam at 300 pts

Total points – 653

95-100% 4.0

90-94% 3.5

84-89 % 3.0

80-83% 2.5

75-79% 2.0

70-74% 1.5

65-69% 1.0

GRADE POLICY: STUDENTS MUST RECEIVE A 2.0 OR HIGHER IN ALL ECHO COURSES TO REMAIN IN THE PROGRAM. STUDENTS WHO EARN BELOW A 2.0 WILL BE UNABLE TO CONTINUE FURTHER COURSEWORK AND WILL BE REMOVED FROM THEIR CLINICAL EDUCATION CENTER.

A 2.0 is a passing grade. Only courses with passing grades count toward graduation. Other colleges transfer in only courses with passing grades. Many financial aid sources, including most employers, require passing grades. Additionally, earning less than a 2.0 in a class results in not being able to participate in the next level of courses in a discipline that requires this course as a prerequisite. If you attempt to register for the next course sequence and have not passed the prerequisite course, you will be dropped from that class.

Instructor's Responsibilities: To facilitate learning, provide and explain the necessary materials for each student to understand the assignments and develop course performance objectives to a near mastery level.

Student's responsibilities: To be available and ready for each session to cover the necessary topics and to demonstrate their ability to meet performance objectives. It is expected by the instructor that all assignments and readings will be completed on time prior to class so that the student may have the best opportunity to understand the lecture material and make inquiries of difficult topics. The very nature of this program makes it very difficult for one to catch up once they have gotten behind.

It is also the student's responsibility to possess a secure Internet connection for testing purposes. If the students' ISP kicks them off the Internet during a test, the student will not be allowed to take test again and will receive a zero for that test. Students can find secure Internet connection at their local library or community college.

Late Assignment Policy: Late assignments will have a 25% deduction of grade each week late. Test and quizzes have a designated due date and must be completed on time.

Academic Honesty Policy:

<http://www.jccmi.edu/policies/Academics/Policies/1004.pdf>

Student Complaint Process:

<http://www.jccmi.edu/administration/deans/StudentComplaintProcess.htm>

Center for Student Success:

At the Center for Student Success, we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to JC students. This includes, but is not limited to, peer and faculty tutoring, assistance with transportation, various workshops and seminars, TRiO programs, student employment, and social work services.

In addition, the Center for Student Success (CSS) staff is committed to adapting the College's general services to meet the individual needs of otherwise qualified students with disabilities, for the purpose of providing equal access to all programs and facilities.

<http://www.jccmi.edu/success/>