

Diagnostic Medical Sonography Program

DMS - 105 Sonographic Technique

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Office hours: Monday 1 - 5 pm

Tuesday 10 am - 1 pm

Wednesday 10 am - 1 pm

Course Description:

This course instructs the DMS student in scan planes, anatomical positioning, scan protocols, scan preparations, scan scheduling, appropriate history recording, correlations with other diagnostic procedures, and the techniques required for initiating and completing diagnostic sonographic procedures of the abdominal, obstetrical and gynecological patients. **Pre-requisites Required: DMS 101 and DMS 104**

Course ADO:

JCC Associate Degree Outcomes (ADO's): The Board of Trustees of Jackson Community College has determined that all JCC graduates should develop or enhance certain essential skills while enrolled in the college.

ADO 7 Rubric for Critical Thinking

Develop skills for the application of recognizing and locating sonographically normal human anatomy of the abdomen, pelvis and gravid uterus

Develop skills for the selection of appropriate transducers, manipulation of transducers to sonographically demonstrate optimum images of human anatomical structures.

Begin developing skills for application of physics principles of sound for the purpose of manipulating and adjusting sonography equipment.

Course Focus:

Prerequisites of this course are BIO-155, Human Anatomy and Physiology, DMS-100 Introduction to Diagnostic Imaging, DMS-101 Sonographic Orientation, DMS-104 Introduction to Sonographic Instrumentation. This course is designed to be a Co-requisite of DMS-200 and DMS-122 Clinical Experience I.

Required Textbooks:

Curry, R.A., Tempkin, B.B., Ultrasonography; an Introduction to Normal Structure and Functional Anatomy Third Edition, W.B Saunders Co. 2010, Philadelphia, PA.

Curry, R.A., Tempkin, B.B., Workbook and Lab Manual for Sonography: Introduction to Normal Structure and Function, W.B Saunders Co. 2010, Philadelphia, PA.

Course Schedule of Assignments and

Lesson 1

Lecture: scan planes

Homework:

Reading assign: Chapter 6

Workbook Exercises: Chapter 6

Lesson 2

Lecture: sonography of the liver & spleen

Homework:

Reading assign: Chapters 10, 12, 16

Workbook Exercises: Chapters 10, 12, 16

Scan Worksheet #1

Lesson 3

Lecture: gb/biliary tree & pancreas

Homework:

Reading assign: Chapters 14 and 16

Workbook Exercises: Chapters 14 and 16

Scan Worksheet #2 & Scan Worksheet #3

Lesson 4

Lecture: renals & adrenal glands

Homework:

Reading assign: Chapter 15

Workbook Exercises: Chapter 15

Scan Worksheet #4

Lesson 5

Test #1

Lesson 6

Lecture: GI tract, peritoneum & diaphragm

Homework:

Reading assign: Chapter 17

Workbook Exercises: Chapter 17

Lesson 7

Lecture: Gynecology

Homework:

Reading assign: Chapter 19

Workbook Exercises: Chapter 19

Scan Worksheet #5

Lesson 8

Midterm Exam

Lesson 9

Lecture: Introduction to fetal sonography 1st trimester

Reading assign: Chapter 20

Workbook Exercises: Chapter 20

Scan Worksheet #6

Lesson 10

Lecture: 2nd & 3rd trimester

Reading assign: Chapters 21 and 22

Workbook Exercises: Chapters 21 and 22

Scan Worksheet #7

Lesson 11

Test #2

Lesson 13

Lecture: Abdominal Aorta and Inferior Vena Cava

Reading assign: Chapters 8 and 9

Workbook Exercises: Chapters 8 and 9

Scan Worksheet #8

Lesson 14

**Final Exam

Grading System

2 written tests	100 pts. each	200
1 Midterm exam	200	200
8 scanning worksheets	25 pts. each	200
1 Final exam	400 pts	400
Total Points Possible		1000

Grading Scale

4.0 95%-100%

3.5 90%-94%

3.0 85%-89%

2.5 80%-84%

2.0 75%-79%

Academic Honesty Policy

Academic honesty is expected of all students. It is the ethical behavior that includes producing their own work and not representing others' work as their own, either by plagiarism, by cheating, or by helping others to do so.

Plagiarism is the failure to give credit for the use of material from outside sources. Plagiarism includes but is not limited to:

- + Using data, quotations, or paraphrases from other sources without adequate documentation
- + Submitting others' work as your own
- + Exhibiting other behaviors generally considered unethical Cheating means obtaining answers/material from an outside source without authorization. Cheating includes, but not limited to:
 - + Plagiarizing in all forms
 - + Using notes/books without authorization
 - + Copying
 - + Submitting others' work as your own or submitting your work for others
 - + Altering graded work

- + Falsifying data
- + Exhibiting other behaviors generally considered unethical

Collaboration

While JCC encourages students to collaborate in study groups, work teams, and with lab partners, each student should take responsibility for accurately representing his/her own contribution.

Consequences/Procedures

Faculty members who suspect a student of academic dishonesty may penalize the student by taking appropriate action up to and including assigning a failing grade for the paper, project, report, exam, or the course itself. Instructors should document instances of academic dishonesty in writing to the Dean of Faculty.

Student Appeal Process

In the event of a dispute, both students and faculty should follow the Conflict Resolution Policy. This policy is presented in Student Rights and Responsibilities (Student Handbook) and the Master Agreement.

Student Complaints/Academic

A student complaint is any non-civil rights related complaint generated by the student concerning the work-related activities of any member of the bargaining unit (such as grade disputes). Instructors shall not be subject to any disciplinary action as a result of a student grievance over strictly academic issues. The following steps are required of students wishing to file a complaint:

1. Student Meets with Instructor

Students must initiate a conference with the instructor with whom they have a complaint no later than the end of the fourth week of the Fall or Winter/Spring semester following the relevant incident/dispute. One representative, who must be from JCC (a current student, instructor or administrator) may be requested by each party to participate in this informal meeting.

2. Student Puts complaint in Writing

If the conflict isn't resolved in the meeting between the student and instructor, the student, if he/she chooses to pursue the matter further must put the complaint in writing using the form provided and submit it to the appropriate Department Chair.

3. Department Chair Holds an Informal Hearing

The Department Chair will convene a meeting with the student and the instructor following the guidelines in the faculty manual. The department chair will conduct any necessary investigation prior to the meeting.

4. Complaint Submitted to Dean

If the student or instructor is unsatisfied with the results of the meeting with the department chair, the formal written complaint and the instructor's written statement of facts as he/she understands them will be submitted to the supervising Dean. The Dean shall promptly provide the instructor and the Association President with a true and complete copy of the student's written statement(s).

5. Dean Holds a Hearing

Within five (5) work days of the time the instructor and the Association should have received the copies of the student's written statement(s), the Dean shall contact the instructor and the Association President to arrange a formal hearing. Parties of interest shall include the student, the ombudsman (if the student so desires), the instructor, his/her Association representative and the Department Chair. Other individuals may be present at the hearing but they may not participate in the proceedings.

6. Dean Issues a Resolution

Within five (5) work days after the hearing, the Dean will distribute a written resolution of the complaint to the student, instructor and the Association President. The written resolution will state the facts as assessed by the Dean and indicate that appropriate action will be taken. No statement of disciplinary action will be disclosed to the student until final resolution of the complaint. If the College plans to discipline the instructor, as a result of this complaint, the instructor and the Association President will be notified, in writing, accompanying the written resolution of the complaint.

7. Appealed to the Executive Vice President

In the event that either the student or the instructor is not satisfied with the Dean's disposition of the complaint, the disposition may be appealed to the Executive Vice-President within five (5) work days.

8. Executive Vice President Holds a Meeting

Within five (5) days of the Executive Vice-President's receipt of an appeal, he will arrange a meeting with the parties of interest and their respective representatives in an attempt to resolve the matter.

9. Executive Vice President Rules on the Appeal

Within five (5) work days after the meeting with the Executive Vice-President, the Executive Vice-President shall give a written disposition of the matter.

10. Appeal through Grievance

The disposition of the Executive Vice- President may be the subject of a grievance, initiated at Step 2 under the grievance procedure contained in the Master Agreement. 2005-2008 Agreement between JCC and JCCFA

Procedures for online or other students unable to travel to JCC offices.

1. Meetings between students, faculty, department chairs, Academic Deans and other parties of interest will be held by conference call originating from JCC.
2. Written documents submitted by all parties must be sent by registered mail to verify receipt. Documents may be sent electronically for convenience but receipt of these will not be verified.
3. Students can find the Academic Complaint Form online at <http://www.iccm.edu/administration/deans/Forms/AcadComplaintForm.html>
Student signature on complaint form must be notarized.
4. Timelines begin on date documents are received as verified by registered mail.

*******Students must have a minimum 2.0 in this course to continue in the DMS program.**

Students should be advised that some revisions during the course might be necessary due to school closing policies, facilitator illness or injury, or any other improbable interruptions of the course.