

INTRODUCTION TO DIAGNOSTIC MEDICAL IMAGING

DMS100

Fall 2020

Number of Credits: 3 credits

Instructor: Kim Salinas

Days Class Meets: online, asynchronous

Contact Email: salinaskimberls@jccmi.edu

Meeting Times: none, asynchronous

Online Office Hours: anytime by appointment

Location/Venue: Online via JetNet

Course Description

Students are introduced to the radiologic sciences. Modalities discussed include X-rays, nuclear medicine, ultrasound, computed tomography (CT), magnetic resonance imaging (MRI), and photon emission tomography (PET). Students learn indications for a variety of diagnostic studies, how they are evaluated and interpreted, correlations of multiple studies, and how to prepare the patient for the study.

Prerequisite(s)

None

Course Goals

SUGGESTED SCHEDULE OF ASSIGNMENTS (you are welcome to finish early) **ALL ASSESSMENTS MUST BE DONE BY THE END OF THIS 7 WEEK COURSE. YOU ARE IN CHARGE OF YOUR OWN DESTINY. You must read/do all items listed under the Required Resources & Activities label in the order listed. *There is at least one assessment in every unit. To learn more about the activity, click the link and read the description. You will not be able to move on to the next unit until you have completed the prior one. Failure to complete the entire course by the end will result in failure of the course. There will be NO RESETS OR RETAKES on any assessment. No exceptions will be made, so be sure you have a secure internet connection, and never wait until the last minute***

Course Objectives

Students who successfully complete the Introduction to Diagnostic Imaging course will be able to identify and differentiate between diagnostic imaging modalities, which will be assessed by passing the final exam with a grade of 75% or better.

Textbook

NO Required text

Facilitator

Office hours: Anytime by appointment. **Please contact me using Kim's Virtual Office** (a private forum in the course between you and I), or Microsoft Teams (found in your Office365 apps), other alternatives are e-mail. Scheduled appointments will be via Teams, Big Blue Button. Please provide the course and section you are in when contacting me via email, but I will likely have you post to my virtual office forum within the course. ****Email must come from your JC account. An outside email will not be accepted.****

Grading Procedure

GRADING SYSTEM

ALL TIMED ASSESSMENTS ARE ACCUMULATIVE. WEEKLY QUIZZES WILL COVER THE WEEKLY MATERIAL

QUIZZES: There will be 11 quizzes (one for each topic) that are not timed. You will have 2 attempts on the quizzes. Each quiz is worth 5pts (11@5=55pts.)

TESTS: There will be two *tests* (Test #1 and Test #2) administered. Each test is worth 20 points, will have a 20 minute time limit with 1 attempt, and will cover everything up to the time of exam. 20 questions each. (2@20=40 pts.)

MIDTERM EXAMINATION: Students will be expected to identify specific imaging studies and topics presented in classes up to date. The midterm is between Test one and Test two. 50 questions, 1 attempt, 50 minute time limit. (50 pts.)

FINAL EXAM: Students will be expected to identify and differentiate between a variety of diagnostic medical modalities and images. Students will be questioned on topics discussed in all segments of the class. 50 questions, 1 attempt, 50 minute time limit. (100 pts.)

YOU MUST COMPLETE ALL ASSESSMENTS BY THE DUE DATE! FAILURE TO DO SO WILL RESULT IN A ZERO SCORE FOR THAT ASSESSMENT. THERE WILL BE NO EXCEPTIONS! Do not wait until the last minute to take any quiz or test. All assessments rules:

- **MUST** be completed by deadline using the most updated version of the recommended browser (Chrome or Firefox)
- Pop up blocker must be off or set to allow pop ups from this site
- Do **NOT** leave the quiz once you start it, if you do you will risk losing points

Grading Scale

Total points: 245

GPA	GRADE RANGE
4.0	95-100%
3.5	90-94%
3.0	85-89%
2.5	80-84%
2.0	75-79%
1.5	70-74%
1.0	65-69%
0.5	60-64%
0.0	0-55%

Failure

A 2.0 or "C" 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 which requires this course as a pre-requisite. If you attempt to register for the next course sequence and have not passed the pre-requisite course, you will be dropped from that class.

Some revisions may be necessary during the course due to school policies, textbook issues, test issues, etc. Any change will be posted as a course announcement.

Academic Honesty Policy

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

Plagiarism is defined as the failure to give credit for the use of material from outside sources.

Plagiarism includes but is not limited to:

- Submitting other's work as your own
- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation
- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

Cheating is defined as obtaining answers/material from an outside source without authorization. Cheating includes, but is not limited to:

- Plagiarizing in any form
- Using notes/books/electronic material 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

Allowing your work to be submitted by others

Accessibility

Jackson College understands that cultivating a broadly diverse community is crucial to our educational mission and to our foundational commitment to leadership and service. Jackson College is fully committed to ensuring our courses are accessible to everyone including those with disabilities. We are currently working to increase accessibility and usability of our course materials in order to meet or exceed the requirements of Section 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1991 and Web Content Accessibility Guidelines (WCAG) 2.0. For more information about Jackson College's efforts to ensure accessibility please visit the [Jackson College accessibility web page](#).

If you have an accessibility need in any of our classes please e-mail the Center for Student Success at JCCSS@jccmi.edu or visit the [Center for Student Success web page](#).

At the Center for Student Success (CSS), we are committed to providing all students the opportunity to achieve academic success by providing a variety of support services free of charge to Jackson College students. This includes, but is not limited to, peer and faculty tutoring, mental health referral, temporary assistance with transportation, various workshops/seminars, and the TRIO program.

In addition, the 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.

Course Management

Facilitator'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: Students are expected to log in frequently and do required reading and assessments, as well as check announcements and emails. **It is required that all assessments be completed on time.** It is also the student's responsibility to have a secure internet connection for testing purposes. If the student's ISP kicks them off the internet during a test, the student will not be allowed to take the test again and will receive a zero for that test.

Please be aware...**students must engage in academic-related activity within the first week, or they must be dropped. Students must be engaging in the course at least once every week until the course is completed or they will be dropped.**

"Actually you don't need dedication or tenacity or discipline in order to achieve your goals. What you need is passion. If the prospect of having the result you desire doesn't light your heart on fire, it's time to take it off the list." Anonymous

To elevate, you must educate.

Academic Advising

It is important to contact a Center for Student Success professional prior to the start of the semester in order to receive accommodations in a timely manner. While we will make every effort to coordinate accommodations in a timely manner, failure to self-identify prior to the start of the semester may delay notification to instructors and timeliness of acquiring accommodations. Accommodations do not automatically carry over to the next semester. Please e-mail JCCSS@jccmi.edu or visit the [Accommodations for Students with Disabilities](#) web page

Attendance- Participation Policy

For online sections:

Just as in a traditional classroom course, regular class participation and keeping up on the reading and assignments is strongly correlated with survival in college. It is my recommendation that you plan to do your assignments and take your exams BEFORE the last day they are due. If problems occur, there is time to fix them before the deadline.

In compliance with Federal Title IV funding requirements, as well as college initiatives, I will be monitoring student participation on a regular basis and officially reporting student activity throughout the term to assure compliance with college policy and federal regulations. It is imperative that you log in to the course and actively participate **within the first couple of days of the term** to validate your enrollment in the course. After that, not actively participating in class may result in you being withdrawn from the course. Being withdrawn from a course can have an impact on financial aid, billing, athletic eligibility, and housing status. As a college student you are responsible for how your participation impacts your academic progress; the accountability lies with you.

Calendar

Unit 1

Review all items listed under "Important Course Items" & "Help Forums & Resources"

Edit profile & Upload photo

Post in Intro discussion forum

Read Introduction lecture and Anatomical Planes

Take Intro **Quiz**

Read Material in Lectures: General Radiography

Take Radiology **Quiz**

Unit 2

Read Material in Lectures: Fluoroscopy

Take Fluoroscopy **Quiz**

Take TEST #1 Timed (20 min) Covers all material to date

Unit 3

Read Material in Lectures: Sonography

Take Sonography **Quiz**

Read Material in Lectures: Computed Tomography

Take CT **Quiz**

ATTENTION SONOGRAPHY STUDENTSstudents who are pursuing an education in sonography need to review the DMS Fact Sheet located on the JC Health Careers website. An acknowledgment of this document must be submitted to Student Services. For more information contact the Allied Health office

Unit 4

MIDTERM EXAMINATION Timed Exam (50 min) covers all material to date

Unit 5

Read Material in Lectures: Mammography

Take Mammography **Quiz**

Read Material in Lectures: Magnetic Resonance Imaging (MRI)

Take MRI **Quiz**

Unit 6

Read Material in Lectures: Interventional Radiography/Angiography

Take Angiography **Quiz**

Read Material in Lecture: Cardiac Sonography

Take Echocardiography **Quiz**

TEST #2 Timed (20min) Covers all material to date

Unit 7

Read Material in Lectures: Nuclear Medicine

Take Nuclear Medicine **Quiz**

Read Material in Lectures: Radiation Therapy

Take Radiation Therapy **Quiz**

FINAL EXAM Timed (50 min) Covers all material

Fill out Course Evaluation (it is anonymous)