

# ***RADS 4232***

## ***Advanced Medical Imaging***

***Fall 2021***

### Instructor Information

**Instructor: Robert Comello M.S, R.T.(R)**

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### **Course Description**

An introduction to the use of computers in medical imaging and a survey of specialized imaging modalities.

### **Learning Outcomes**

The student will:

- explain the use of computers in medical imaging
- describe the various specialized imaging modalities
- differentiate between images produced by different modalities
- identify the anatomy demonstrated

### **Textbooks**

- Textbook of Radiographic Positioning and Related Anatomy, 9<sup>th</sup> Ed., by Bontrager & Lampignano
- Essentials of Radiographic Physics & Imaging, Johnston & Fauber
- Radiologic Science for Technologists: Physics, Biology, and Protection, 10<sup>th</sup> Ed., by Stewart Bushong

### **Academic Dishonesty Policy**

Academic dishonesty (cheating, plagiarism, etc.) will not be tolerated in this class and may result in suspension or dismissal from this course and from the program. Cases will also be referred to the Dean of Students for possible dismissal from the university.

[Student Honor Creed](#): "As an MSU Student, I pledge not to lie, cheat, steal, or help anyone else to do so."

**Cheating** includes, but is not limited to, (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or completing other assignments; or (3) the acquisition of tests or other academic materials belonging to the university faculty or staff without permission.

**Plagiarism** includes, but is not limited to, the use of, by paraphrase or direct quotation without correct recognition, the published or unpublished works of another person. The use of materials generated by agencies engaged in "selling" term papers is also plagiarism.

### **Participation**

All students are expected to fully participate in all class activities, including lectures and discussions, demonstrations, presentations, small-group projects, and collaborative learning activities.

### **Professionalism**

At all times, students are expected to conduct themselves in a professional manner. Professionalism includes establishing positive relationships and interactions with peers, colleagues, and faculty; attending respectfully to others who are sharing information with the class; being flexible to unforeseen changes in schedules and assignments.

### **Administrative Process**

Unresolved issues related to this course should be first addressed between the student and the course instructor. If there is no resolution, students must follow this sequence:

1. Department Chair – Dr. Beth Veale (940-397-4611)
2. College Dean – Dr. Jeff Killion (940-397-4594)
3. Dean of Students – Matthew Park (940-397-7500)

### **Americans with Disabilities Act (ADA)**

The Radiologic Sciences Program at Midwestern State University complies with the ADA in making reasonable accommodations for qualified students with disabilities. If you have an established disability as defined in the ADA and would like to request accommodations, please contact Disability Support Services as soon as possible - <http://mwsu.edu/student-life/disability/index>.

### **Due Dates**

All course work is due by date posted on the course calendar and tentative course schedule found at the end of the syllabus. Late submissions will NOT be accepted.

Note: The last day to drop this class with a “W” is October 25, 2021, at 4 pm.

### Clinical Rotations

If for any reason, you are unable to complete a rotation through a particular modality, for example, radiation therapy, it is your responsibility to contact the Clinical Coordinator so they can make arrangements at another facility for you. If you are unable to complete a rotation through a particular modality due to COVID restrictions, you will be required to do a case study related to that rotation in lieu of the actual lab activity.

### Grading

Course grading breakdown			
The final course grade will be calculated by the following criteria:		The grading scale will be:	
Unit Examinations (8)	45%	90 - 100 =	A
Labs & Assignments (6)	*55%	80 – 89 =	B
		75 – 79 =	C
		60 – 74 =	D
		< 60	F

Note: This instructor does not round up the final grade average. Proofread your work and confirm you have the correct file downloaded into the drop box.

### Student Responsibilities:

#### Please note:

Lockdown browser will be utilized for all examinations. Please be sure to check that your WiFi is reliable and working with a lockdown browser. Also, **the Lockdown browser does not work with Chromebook.**

As a student enrolled in this course, you will be responsible for adhering to and meeting posted deadlines and due dates. All activities for this course are listed at the end of this

syllabus. Activities such as quizzes have expiration dates. Please take note that expiration dates for quizzes may differ from deadlines for assignments and activities.

Quizzes and assignments/activities are spaced out in a manner that will allow you ample time to complete them. Assignments/Activities will be accepted on or before the posted due date and deadline. If you choose to wait until the **very last minute** and there is some problem with getting the assignment to me in time, that is the risk that you take and you must accept the penalty.

**Penalty:**

Any student that missed a quiz expiration date will not be allowed to take the quiz once the time has expired. If this happens, the student will receive a grade of zero (0) for that quiz. If a student misses a deadline for an activity or assignment, that assignment/activity will not be graded and a grade of zero (0) will be given.

**Emergencies do occur and they will be dealt with on an individual basis.** Do not inform me of personal emergencies after the deadlines/due dates and expiration dates have passed.

**DO NOT WRITE TO ME AND ASK IF I WILL ACCEPT A LATE ASSIGNMENT. I WILL NOT.**

**Calendar**

There is a course calendar located on the right side of the course home page. Check it often for due dates and deadlines. Due dates and deadlines can also be found in the assessments by clicking on the tests and dropbox.

Tentative course schedule

<b>Activity</b>	<b>Starts</b>	<b>Deadline</b>
Unit Examinations	August 23, 2021	On or before November 30, 2021, at 8 am
Lab Activities	August 23, 2021	On or before December 3, 2021, at 8 am