

OAKLAND UNIVERSITY
SCHOOL OF HEALTH SCIENCES
Radiologic Technology Program/BDTS
RAD 4440
Advanced Imaging Topics

COURSE: Advanced Imaging Topics
YEAR: Winter 2018
PROFESSOR: TBD
OFFICE PHONE NUMBER:
CREDITS: 4

DAY/TIME: Tues.& Thursday
OFFICE HOURS: e-mail instructors
CLASS LOCATION: HHB 5015
EMAIL: trost@oakland.edu

COURSE DESCRIPTION: Examination of current medical imaging practices in a variety of specialties. Emphasis is on patient care, safety, imaging principles and imaging procedures.

REQUIRED TEXT: Textbook (and Workbook) of Radiographic Positioning and Related Anatomy, Kenneth Bontrager, 8th edition

Principles of radiographic Imaging, Carlton, Adler 5th edition.

COURSE FORMAT: Lecture, discussion, instructor and student demonstrations, tests, assignments and / or quizzes. Participation in class activities is required. Each individual instructor will distribute individual expectations on the first day of that section.

GRADING: Four tests will be given – one for each modality. Other assignments may be required.
 Grades are not rounded.

Grading Scale: a grade of 75% is required to pass this class and to continue in the RAD program.

Percent	Grade point	Percent	Grade point	Percent	Grade point	Percent	Grade point
97-100	4.0	85	3.2	74	2.4	66	1.6
96	3.9	84	3.1	73	2.3	65	1.5
95	3.8	80-83	3.0	72	2.2	64	1.4
94	3.7	79	2.9	71	2.1	63	1.3
93	3.6	78	2.8	70	2.0	62	1.2
90-92	3.5	77	2.7	69	1.9	61	1.1
88-89	3.4	76	2.6	68	1.8	60	1.0
86-87	3.3	75	2.5	67	1.7		

CLASS POLICIES:

1. Academic conduct
 - a. All students are expected to complete their own work unassisted by anyone else unless specified by the instructor for group assignments.
 - b. Students are expected to come to class prepared and ready to discuss course material. Complete the appropriate assignment prior to class start time.
2. Add/Drops: **Deadline for dropping this class will follow university policy.**
3. Special Considerations:

Students with disabilities, who may require special considerations should make an appointment with campus Disability Support Services, 106 North Foundation Hall, phone 248 370-3266. Students should also bring their needs to the attention of the instructor as soon as possible. For academic help, such as study and reading skills, contact the Academic Skills/Tutoring Center, 103 North Foundation Hall, phone 248 370-4215.

4. Attendance - Students are expected to attend all scheduled class meetings. The course grade will be reduced based on attendance as follows:
 - a. 2 absences = -2% from overall grade
 - b. 3 absences = -5% from overall grade
 - c. 4 absences = -10% from overall grade
 - d. 5 absences = -15% from overall grade
 - e. 6 absences = failure of class

Tardiness – Tardiness means arriving to class after the scheduled time. Each accumulation of 2 tardies will equal one absence (see above) Tardiness in excess of 15 minutes will be considered an absence.

5. Assignments must be completed on time. Late assignments will not be accepted and a grade of “0” will be earned.
6. If you know that you will miss a scheduled test/exam/assignment, contact the instructor for options. Students that miss a grade, but take it before the scheduled date will not suffer grade reduction. Students that miss a scheduled test/exam may still earn a grade, if approved by the instructor, but the grade will be reduced by 10%. Unannounced quizzes cannot be taken in advance nor made up afterward. A grade of “0” will be earned for missed unannounced quizzes.
7. No on-line activity is required.
8. Students will come to class dressed appropriately. No hats, bare shoulders, revealing or ripped clothing is allowed. Students dressed inappropriately will leave class for the remainder of the class period and charged with an absence.
9. Cell phones must be turned OFF while in class. If a cell phone makes an audible noise during class, the student will immediately leave the class for the remainder of the class period. Leaving class for this issue will be considered an absence. Since classroom telephones are not available, safety concerns require the instructor to have a cell phone in the classroom and available for emergency notifications.
10. Instructor is available for contact during office hours and via e-mail or office phone.
11. Athletes requiring an altered schedule must meet privately with the instructor within the first semester week.
12. Students leaving the classroom during any test (quiz, exam, etc.) will not be re-admitted to the classroom until the test is over. Tests will be considered submitted upon leaving the classroom. In this event, students will forfeit their ability to complete any unfinished test items or utilize any remaining test time.

TENTATIVE COURSE OUTLINE - RAD 4440 – Advanced Imaging Topics

<u>Date</u>	<u>Topic(s)</u>
	<u>Magnetic Resonance Imaging</u>
1/4/2018	Career Discussion, Patient Care
1/9	Magnet Safety
1/11	Imaging Procedures – Head/Neck
1/16	Imaging Procedures - Abdomen
1/18	Imaging Procedures – Neuro and Extremity
1/23	Sequence Parameters and Data Acquisition
1/25	MRI Principles and Physics
1/30	Magnetic Resonance Test
	<u>Computed Tomography</u>
2/1	Career Discussion, Patient Care and Safety
2/6	Procedures and Cross Sectional Anatomy – Head/Neck
2/8	Procedures and Cross Sectional Anatomy - Abdomen
2/13	Procedures and Cross Sectional Anatomy - Neuro
2/15	Physics and Imaging Principles
2/18 – 2/23 – Winter Break	
2/27	Computed Tomography Test
	<u>Mammography</u>
3/1	Career Discussion, Patient Care and Safety
3/6	Procedures and Anatomy
3/8	Imaging Principles
3/13	Image Production
3/15	Image Production
3/20	Mammography Test
	<u>Vascular- Interventional Radiology</u>
Week 11	
3/22	Career Discussion, Patient Care
3/27	Patient Safety
3/29	Equipment and Instrumentation
4/3	Vascular Procedures – Head/ Neuro

4/5	Vascular Procedures-Neck and Thorax
4/10	Vascular Procedures - Abdomen
4/12	Vascular Procedures - Special
4/17	Vascular Procedures - Special
4/19	Vascular - Interventional Test