

COURSE OUTCOME MATRIX

COURSE SYLLABUS

PART 2 of 3

Course Number and Title	RA 208: Radiologic Science II
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Credit Hours	3
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Course Description	Different imaging equipment and their operation, relationship of factors that control and affect image quality. Image analysis concepts, process and problem solving and math applications in the laboratory setting.
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Prerequisite(s) and/or Corequisite(s)	RA 106 None
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Required Textbooks/References/Course Materials:

Essentials of Radiographic Physics and Imaging	3rd	Johnston & Fauber	Elsevier	0323566685
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General Education Outcomes	
1	Utilize written and verbal language to discuss and comprehend information, incorporating a variety of technologies, such as text, data, and images (written language, verbal language, and information technology).
2	Identify and interpret relevant information in order to formulate an opinion or conclusion (critical thinking).
3	Demonstrate and communicate computational methods and mathematical reasoning in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate) (quantitative literacy and fluency).
4	Communicate in appropriate ways with those who are culturally diverse (intercultural competence).

Program/Department Outcomes	
1	Prepare students to become safe and competent radiographers.
2	Provide educational opportunities for students to possess critical thinking skills.
3	Demonstrate responsible professional attitudes and behaviors.
4	Use effective communication.

	Course Outcomes (CO)	Bloom's Domain for CO (C, A, P), Category, and Level	Program/ Department Outcome(s)	Written Language	Verbal Language	Information Technology	Critical Thinking	Quantitative Literacy and Fluency	Intercultural Competence
1	Manipulate different imaging equipment and demonstrate safe and accurate operations	C Applying 3	1,2,3	1	1	1	1	1	0
2	Describe image analysis elements and process.	C Remembering 1	4	1	1	1	1	0	0
3	Critique images	C Evaluating 5	2,4	1	1	1	1	1	0
4	Analyze relationship of controlling factors and their effects on image quality.	C Analyzing 4	1,2,4	1	1	1	1	1	0
5	Construct mathematical problems correctly.	C Applying 3	1,2,4	1	1	1	1	1	0

Bloom's Domain Legend

C = Cognitive
A = Affective
P = Psychomotor

General Education Outcome Legend

2 = Included and Measurable
1 = Introduced and/or Minimally Addressed and Not Measurable
0 = Not included

Approved: May 2021
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