COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

r and Title RA 106: Radiologic Science I
3
Fundamentals of radiation, conditions for, exposure, production, characteristics, interactions, safety, components and functions of x-ray tubes and accessories, plus an introduction to digital imaging systems and receptors. Application of mathematical concepts and laboratory experiences are included.
RA 100
None

Required Textbooks/References/Course Materials: None.

	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).
	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).

	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	Describe image production, exposure, characteristics, interactions and properties.	C Remembering 1	1	1	1	1	0	0	0
2	Identify components and functions of an x-ray tube.	C Remembering 1	1,4	1	1	1	1	0	0
3	Recognize accessory equipment purposes and demonstrate correct, safe use and operation.	C Remembering 1	1,4	1	1	1	1	0	0
4	Demonstrate effects of accessory equipment on image quality.	C Applying 3	1,2	1	1	1	1	0	0
5	Describe different digital equipment and image receptor types.	C Remembering 11	4	1	1	1	0	0	0
6	Solve mathematical calculations.	C Applying 31,4	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 October 29, 2021 Reviewed: