Course Number and Title	RA 103 Imaging Procedures II and Image Analysis

Credit Hours	3

Course Description	A detailed instruction necessary for the radiography of the skull and spinal column will be presented. The student will explore fluoroscopic and contrasted procedures. Image analysis for contrast, density, detail, and positioning is included. There is a lab component. Both the didactic and lab portions must be successfully completed to progress in the program.

Prerequisite(s) and/or Corequisite(s)	Admission to the program
	None

Required Textbooks/References/Course Materials:

Workbook for Textbook of Radiographic Positioning and Related Anatomy	9th	Lampignano & Kendirck	Elsevier	0323481876
Bontrager's Handbook of Radiographic Positioning and Related Anatomy	9th	Lampignano & Kendrick	Elsevier	0323485251
Bontrager's Textbook of Radiographic Positioning and Related Anatomy	9th	Lampignano & Kendrick	Elsevier	0323399665

	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	Evaluate images for adequate anatomy, density, & contrast.	C Evaluating 5	1,2,4	1	1	1	1	1	0
2	Apply knowledge of proper immobilization devices & develop critical thinking skills in accordance with the patient condition.	C Applying 3	1,2	1	1	0	1	0	1
3	Organize examinations efficiently.	P Embody 5	1,2	1	1	1	1	0	0
4	Produce simulated radiographic procedures.	P Embody 5	1,2,4	1	1	1	1	1	1
5	Analyze and critique radiographs for centering & differentiate conclusions.	C Analyzing 4	1-4	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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