## COURSE OUTCOME MATRIX COURSE SYLLABUS PART 2 of 3

Course Number and Title CT 260 Introduction to Computed Technology

Credit Hours 3

Course This course will provide an overview of Computed Tomography (CT) and other CT course offerings. Included will be CT imaging, principles of operation, instrumentation, historical background, and viewing methods. This course will also contain topics such as the importance of equipment calibration, protocol and dosage regulations, and radiation safety for the patient and personnel. Another component will consist of brief research of CT utilization with other modalities or new advancements like Radiotherapy, treatment planning, PET, angiography, or cardiac imaging.

Prerequisite(s)	Admission to the Radiologic Technology program and ARRT or ARRT eligible or permission of the program coordinator
and/or	
Corequisite(s)	None

## Required Textbooks/References/Course Materials:

CT 260	RQ	Computed Tomography for Technologists: A Comprehensive Text - With Access	2nd	Lois E. Romans	LWW	1496375858
CT 260	RQ	Computed Tomography - Physical Principles, Applications, and Quality Control	4th	Euclid Seeram	Elsevier Science	0323312888

	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	Recognize the principles of CT acquisition, processing, reconstruction of image displays and basic instrumentation.	C Remembering 1	1,4	1	1	1	1	1	0
2	Demonstrate patient care, patient communication, CT exam preparation and radiation safety.	C Applying 3	1-4	1	1	1	1	1	1
3	Identify usage of contrast injection techniques and methods with knowledge of CT injector operation.	C Remembering 1	1-4	1	1	1	1	1	0
	Bloom's Domain Legend C = CognitiveGeneral Education Outcome Legend 2 = Included and Measurable 1 = Introduced and/or Minimally Addressed and Not Measurable 0 = Not includedP = Psychomotor0 = Not included								
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Reviewed: October 29, 2021