

# COURSE OUTCOME MATRIX

## COURSE SYLLABUS

### PART 2 of 3

Course Number and Title	CT 266 Computed Tomography Advanced Procedures
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Credit Hours	3
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Course Description	This course provides thorough coverage of CT procedures for imaging structures located in the thorax, abdomen, pelvis, and musculoskeletal system. CT protocols will be taught for differentiation of specific structures, patient symptoms and pathology. Patient history, education, preparation, patient positioning, orientation, scan parameters, and filming are covered. CT images from each procedure protocol studied will be reviewed for quality, anatomy and pathology. Specialized procedures to be included are 3D studies, biopsies, radiation therapy planning, drainage, post-myelography, CT arthrography and hybrid imaging.
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Prerequisite(s) and/or Corequisite(s)	CT 262 and admission to the Radiologic Technology program and ARRT or ARRT eligible or permission of the program coordinator
	None

Required Textbooks/References/Course Materials:

MDCT Protocols	2012	Andrea Laghi	Springer	8847024021
MDCT: Practical Approach	2006	S. Saini, G. D. Rubin, M. Kalra	Springer	8847004128

	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 imaging structures for CT procedures of the thorax, abdomen, pelvis and musculoskeletal system.	C Remembering 1	1.2.4	1	1	1	1	0	0
2	Differentiate the CT protocol for specific structures, patient symptoms and pathology.	C Analyzing 4	1.2.4	1	1	1	1	1	1
3	Critique CT images per procedure protocol for quality, anatomy and pathology.	C Evaluating 5	1-4	1	1	1	1	1	1
4	Identify specialized procedures involving CT.	C Remembering 1	1,4	1	1	1	1	0	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  
Reviewed: October 29, 2021