



MASTER COURSE OUTLINE

A. RADT 1235 Radiographic Procedures II

B. COURSE DESCRIPTION:

This course covers radiographic procedures of the pelvic girdle, complete vertebral column, and bony thorax. Trauma guidelines, including pediatric and geriatric patient considerations, are presented. Emphasis will be on anatomy, positioning, radiographic terms, manipulation of radiographic equipment and accessories, and related patient care considerations.

Radiographs are evaluated for anatomy and positioning. Skills acquired in Procedures I are maintained. Prerequisites: RADT 1281, RADT 1210, RADT 1231. This course is part of the Radiography program which is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

(4 Cr – 2 lect, 2 lab)

C. *Core Theme: Critical Thinking

D. RIVERLAND INSTITUTIONAL LEARNING OUTCOMES:

This course addresses the following Riverland Institutional Learning Outcome(s):

- ILO 1: critical thinking (*Core Theme Goal 2*)
- ILO 2: awareness of the larger global community (*Core Theme Goal 7 or Goal 8*)
- ILO 3: ethical, engaged citizenship (*Core Theme Goal 9 or Goal 10*)
- ILO 4: communication and collaboration (*Discipline Goal 1 and by any learning outcome(s) involving communication or collaboration*)

E. MAJOR CONTENT AREAS:

- General human anatomy
- Hips and pelvis anatomy and positioning
- Sacroiliac joints positioning
- Cervical spine anatomy and positioning
- Thoracic spine anatomy and positioning
- Lumbar spine anatomy and positioning
- Sacrum and coccyx anatomy and positioning
- Trauma positioning of the vertebral column
- Image critique
- Bony thoracic anatomy and positioning
- Trauma and fracture terminology and positioning
- Radiation protection
- Pediatric trauma considerations
- Geriatric trauma considerations

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<u>*Critical Thinking</u>	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. demonstrate alternative positioning methods for trauma radiography for all age groups.
<u>CS</u>	identify anatomy and positioning requirements for pelvis, vertebral column, and thoracic radiography.	1. identify the anatomy demonstrated after proper positioning.
<u>CS</u>	understand the principles of radiation protection.	1. utilize radiation protection.
<u>CS</u>	understand appropriate communication skills.	1. demonstrate appropriate communication skills.
<u>CS</u>	become familiar with the many facets of radiology.	1. demonstrate vast knowledge about the radiology field through professional journals.

G. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact Accessibility Services at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

H. COURSE CODING INFORMATION:

Course Code X/Class Maximum 20; Letter Grade

Revision date: 12/15/10; 11/29/17; 09/22/20; 03/30/22; 10/01/24

AASC Approval date: 12/12/17; 05/03/22; 11/19/24

*These five MnTC Goals have been identified as Riverland Community College Core Themes. Every course in the Riverland Community College curriculum shall meet outcomes from one of these themes.

**These five MnTC Goals have been identified as Riverland Community College Disciplines. Riverland's MnTC courses also shall meet outcomes from a Discipline Area.

NOTE: The Minnesota Transfer Curriculum "10 Goal Areas of Emphasis" are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.

*Riverland Community College Core Themes	MnTC Goal Number
Critical Thinking (CT)	2
Human Diversity (HD)	7
Global Perspective (GP)	8
Ethical and Civic Responsibility (EC)	9
People and the Environment (PE)	10

**Riverland Community College Discipline Areas	MnTC Goal Number
Communication (CM)	1
Natural Sciences (NS)	3
Mathematics/Logical Reasoning (MA)	4
History and the Social & Behavioral Sciences (SS)	5
Humanities and Fine Arts (HU)	6

Riverland