



## MASTER COURSE OUTLINE

### A. RADT 1231 Radiographic Procedures I

### B. COURSE DESCRIPTION:

This course is the first of four radiographic procedures courses. The student is introduced to the basic terminology for positioning, the radiographic equipment, and operations. General anatomy is introduced, and specific positioning procedures of the chest, abdomen, upper limb, shoulder girdle, and lower limb. Considerations for the pediatric and geriatric patient are also covered. Mobile and surgical imaging is presented. Radiation safety and protection for the technologist and patient are stressed. Radiographs are evaluated for anatomy and positioning. Prerequisites: Admission to the Radiography Program. 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
- Radiographic terminology
- Radiographic equipment
- Image quality factors
- Positioning terms
- Image identification requirements
- Radiation protection procedures
- Exposure techniques
- Upper extremity anatomy and positioning
- Exposure techniques for casts
- Chest anatomy and positioning
- Abdominal anatomy and positioning

- Lower extremity anatomy and positioning
- Mobile and surgical imaging
- Image critique
- Communication skills
- Geriatric patient
- Pediatric patient including immobilization methods

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. critique radiographic images for positioning and technique requirements.
<u>CS</u>	apply appropriate medical terminology as it relates to radiographic equipment.	1. demonstrate proficiency in using appropriate medical terms as it relates to the practicum setting and radiographic equipment.
<u>CS</u>	identify anatomy and positioning requirements.	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>	identify immobilization methods for pediatric radiography.	1. demonstrate pediatric immobilization methods.
<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: 03/24/10; 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.

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

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