



## MASTER COURSE OUTLINE

### A. RADT 2215 Image Evaluation

### B. COURSE DESCRIPTION:

This course provides students with the knowledge needed to evaluate radiographic examinations and to identify and recognize diagnostic quality. Students will evaluate and critique case studies and complete critique projects while at practicum, using their own images, for positioning and technique. Images are evaluated for adequate technical preparation, proper use of equipment, careful radiography of the anatomical part, and the accept/reject analysis. Prerequisites: RADT 1235, 2261. Co-requisite: RADT 2283. This course is part of the Radiography program which is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).  
**(3 Cr – 3 lect, 0 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:

- Diagnostic image concepts
- Elements of a diagnostic image
- Causes and types of artifacts
- Prevention of artifacts
- Causes of image 'un-sharpness'
- Effect of grids on image quality
- Radiographic contrast
- Criteria for satisfactory positioning
- Evaluation for quality images
- Repeat/reject analysis
- Case Studies
- Critique projects

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.	<ol style="list-style-type: none"> <li>1. apply an effective image critique method to a wide range of problems specific to practicum situations.</li> <li>2. critique radiographs for the elements of a diagnostic image.</li> </ol>
<u>CS</u>	define proper radiographic exposure.	<ol style="list-style-type: none"> <li>1. analyze exposure techniques for a given image.</li> </ol>
<u>CS</u>	recognize artifacts.	<ol style="list-style-type: none"> <li>1. identify imaging artifacts and describe prevention solutions.</li> </ol>
<u>CS</u>	recognize proper radiographic positioning.	<ol style="list-style-type: none"> <li>1. articulate proper positioning techniques.</li> </ol>

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 the instructor or the Student Success Center 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; 03/27/22

AASC Approval date: 05/03/22

<b>*Riverland Community College Disciplines</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>

<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>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

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