



MASTER COURSE OUTLINE

A. RADT 1225 Radiographic Pathology and Medical Terminology

B. COURSE DESCRIPTION:

This course introduces the student to the origins of medical terminology. A word building system is introduced and abbreviations and symbols are discussed. The course covers the concepts of disease and its effects on the human body. The pathophysiology and radiographic manifestations of common and unusual disorders for each of the body systems are discussed. An orientation to the understanding of radiographic orders and interpretation of diagnostic reports is discussed. This course provides the knowledge and skills to adjust technical factors for obtaining optimal quality images in patients with various underlying pathologic conditions. This is a prerequisite course of the Radiography program, which is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).
(2 Cr – 2 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:

- Medical terminology fundamentals
- Introduction to pathology
- Pathology terminology
- Radiographic imaging terminology
- Trauma/physical injury
- Respiratory system
- Skeletal system
- Gastrointestinal system
- Urinary system
- Cardiovascular system
- Nervous system

- Hematopoietic system
- Endocrine system
- Reproductive system
- Miscellaneous diseases

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. identify changes to technical factors for obtaining quality radiographs in patients with various underlying pathologic conditions.
<u>CS</u>	recall anatomical and medical terms for the various body systems.	1. describe and identify the anatomical structures and medical terms for the various body systems.
<u>CS</u>	recognize disease processes for each body system.	1. identify the pathological condition and which body system is affected.
<u>CS</u>	understand the radiographic technique changes for pathologic conditions.	1. articulate and classify the more common diseases in terms of their penetrability to x-rays.
<u>CS</u>	recognize patient positioning limitations imposed by the disease process.	1. define positioning and immobilization strategies to provide for patient comfort and optimal imaging.

G. SPECIAL INFORMATION:

This course requires 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 A/Class Maximum 48; Letter Grade

Revision date: 05/07/13; 11/29/17; 03/30/22; 03/30/23

AASC Approval date: 12/12/17; 05/03/22; 05/02/23

*Riverland Community College Disciplines	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 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

*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.