



MASTER COURSE OUTLINE

A. DMSG 1406 Clinical Ultrasound Lab I

B. COURSE DESCRIPTION:

This course will introduce students to the aspects of ultrasound scanning of abdominal organs in a simulated clinical laboratory setting. Emphasis will be placed on protocol, instrumentation, imaging, and identification of normal sonographic anatomy.

(2 Cr – 0 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 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:

- Instrumentation
- Transducer selection
- Abdomen protocols
- Scanning techniques and approaches
- Patient care
- Confidentiality
- Ergonomics
- Patient history
- Infection control
- Translate findings

F. GOAL TYPE, OBJECTIVES, AND OUTCOMES:

<u>GOAL TYPE</u>	<u>OBJECTIVES</u>	<u>OUTCOMES</u>
	Students will be able to	The student will successfully
<u>*Critical Thinking</u>	gather 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. apply sonography knowledge and research findings to patient situations while providing care in a simulated setting.
<u>CS</u>	apply knowledge of patient care in ultrasound scanning.	1. demonstrate maintaining patient confidentiality. 2. gather health information about the patient including patient history.
<u>CS</u>	apply knowledge of sonography equipment.	1. select appropriate equipment including transducer. 2. demonstrate appropriate scanning technique.
<u>CS</u>	apply knowledge of abdominal protocols.	1. demonstrate use of correct abdominal protocols.
<u>CS</u>	apply knowledge of infection control.	1. demonstrate proper infection control techniques.

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 J/Class Maximum 10; Letter Grade

Revision date:

AASC Approval date: 11/18/25

*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)	7A, 7B, 7A/B
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