



MASTER COURSE OUTLINE

A. DMSG 2430 Clinical Ultrasound Internship II

B. COURSE DESCRIPTION:

This is the final course in the Sonography Program. The student will focus on becoming proficient in the scanning of the human body. Students will perform under the guidance and supervision of assigned preceptors, in hands-on scanning in abdominal, superficial structures, OB/GYN, and vascular systems. Upon completion of this internship, students will be able to perform routine duties and be ready for the workplace as a Diagnostic Medical Sonographer.

Prerequisite(s): DMSG2425.

(10 Cr – 0 lect, 10 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:

- Completing clinical internship in an ultrasound department located in a hospital or clinic setting, performing, and observing various ultrasound procedures.

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 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. perform the day-to-day operations that are routinely done in an ultrasound department while being part of the team in an ultrasound department.
<u>CS</u>	prepare patients appropriately for abdominal, pelvic, OB, vascular, and superficial structure exams.	1. perform all ultrasound examinations of any abdominal and pelvic organs, gravid uterus, superficial structures and

	- select the correct transducer type and scanning parameters for each exam type. - acquire all required protocol images demonstrating anatomical structures in multiple planes. - adapt scanning techniques appropriately for patient body habitus, pathology, and clinical indications.	vascular procedures routinely examined in a diagnostic ultrasound department.
<u>CS</u>	- optimize image quality using gain, depth, TGC, focus, and Doppler controls. - label all images clearly and correctly according to departmental standards. - store, manage, and transfer images to PACS or reporting software without loss of quality. - verify that every required image is obtained and meets diagnostic criteria before completing the exam.	1. record and process high quality images necessary for a diagnostic ultrasound examination.
<u>CS</u>	- identify normal anatomical structures and recognize deviations from expected appearance. - correlate patterns seen on ultrasound with potential clinical conditions. - differentiate benign findings, normal variants, and suspicious abnormalities. - provide accurate preliminary impressions within the sonographer's scope of practice.	1. interpret ultrasound exams that are performed in an ultrasound department.
<u>CS</u>	- explain the sonographic characteristics of normal organ systems. - recognize key sonographic signs of common pathologies (e.g., gallstones, cysts, hydronephrosis, DVT). - assess image findings for indications of disease processes. - document abnormal findings using proper clinical terminology and descriptors.	1. determine normal and pathological conditions on sonograms that are routinely examined in an ultrasound department.
<u>CS</u>	- collect pertinent patient history through interview and chart review. - measure anatomical structures and pathology accurately using appropriate landmarks. - document findings clearly in structured report format using approved terminology. - ensure completeness and accuracy of all report data before submitting to the reading physician.	1. record patient history, measurements, and ultrasound findings on a sonography report.

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:

AASC Approval date: 05/12/26

*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