



MASTER COURSE OUTLINE

A. DMSG 1411 Diagnostic Medical Sonography II

B. COURSE DESCRIPTION:

Students will be exposed to different pathologies of the male and female reproductive systems, obstetrics covering all trimesters, breast and vascular systems. This course will focus on ultrasound findings, scanning techniques, patient history, laboratory data, and other imaging modalities to help better understand how to interpret pathology. Emphasis will focus on descriptive and anatomical terminology, clinic data, grayscale imaging, protocols, and Doppler characteristics as seen with various pathologies.

Prerequisite(s): DMSG1401, DMSG1402, DMSG1404, DMSG1405, DMSG1406.

(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 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:

- Congenital anomalies of fetus
- Female breast
- Female pelvis
- Fetal anatomy
- Fetal growth assessment
- Infertility procedures
- Three-dimensional obstetric and gynecologic sonography
- Biophysical profile
- First, second and third trimester obstetric
- High risk pregnancy
- Obstetric measurements and gestational age
- Scrotum and prostate

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.	determine sonographic technique and protocols used to evaluate the male and female pelvis.
<u>CS</u>	- recognize normal sonographic characteristics of pelvic organs, including uterus, ovaries, adnexa, prostate, and seminal vesicles. - differentiate normal variants from pathological findings in male and female pelvic structures. - describe common sonographic features associated with gynecologic and urologic pathologies (e.g., fibroids, ovarian cysts, prostatitis). - interpret sonographic patterns that indicate abnormal fluid collections, masses, or structural abnormalities. - compare gray-scale and Doppler findings to improve diagnostic differentiation of normal versus abnormal pelvic conditions. - assess pelvic structures to identify deviations from expected anatomy or echogenicity.	identify normal and abnormal sonographic appearances of the male and female pelvis.
<u>CS</u>	determine sonographic technique and protocol used to evaluate the female breast.	identify normal and abnormal sonographic appearances of the female breast.
<u>CS</u>	determine obstetric measurements used for gestational age and fetal growth assessment.	investigate pertinent patient history and laboratory data that apply to the obstetric and gynecological ultrasound exams.
<u>CS</u>	review ultrasound pathology case studies of pregnant and non-pregnant female pelvis.	write mock obstetric and gynecologic diagnostic medical sonographer reports.

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