BERGEN COMMUNITY COLLEGE DIVISION OF HEALTH PROFESSIONS DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

DMS 115 Cross Sectional Anatomy

3 lect., 3 lab., 4 credits

Co-requisite: BIO 109, DMS 101,

DMS 102, DMS 113

COURSE DESCRIPTION: Cross Sectional Anatomy is a course that will explore the structure of the human anatomy in all body planes with particular emphasis on the cross sectional mode. The organs and system relationships are examined, particularly, the abdomen, thorax, cranium, pelvis, reproductive system and retroperitoneum. Fetal cross sectional anatomy will also be presented.

COURSE OBJECTIVES: At the completion of this course, the student will be able to:

- ➤ Locate and identify various abdominal organs with relationship to surrounding structures on diagrams, sonograms, and photographs of human specimens.
- ➤ Locate and identify abdominal vasculature on cross sectional images.
- > Follow human structures in a serial fashion through cross sectional images.
- > Identify basic fetal/maternal cross sectional anatomy on sonograms and diagrams.
- ➤ Locate and identify various thoracic and cranial organs with relationship to surrounding structures on diagrams, sonograms, and photographs of human specimens.
- Locate and identify vascular anatomy of the head, neck, thorax, and leg.
- > Understand the embryology and anatomy of the human brain.
- > Identify various cranial anatomy with relationship to surrounding structures.

REQUIRED TEXTS:

Curry, Reva Arnez and Tempkin, Betty Bates. SONOGRAPHY: INTRODUCTION TO NORMAL STRUCTURE AND FUNCTION, 3rd Edition. Saunders and Company. 2011.

COURSE POLICIES:

- 1. Missed quizzes must be made up in the Testing Center <u>before</u> the next class meeting or a zero grade will be given. NO exceptions. Quizzes may be unannounced.
- 2. Attendance and promptness is expected.
- 3. Free time scanning labs are optional. Students must make own arrangements for patients. Time allotment per student will be based on the number of students participating.

ASSESSMENT: Knowledge of course objectives will be assessed by verbal questions prior to, and at the end of each class, quizzes, tests, and lab worksheets.

COURSE GRADE CALCULATION		FINAL GRADE CALCUL	FINAL GRADE CALCULATION		
Quiz average	15%	92 - 100	A		
Test #1	20%	88 - 91.9	B+		
Test #2	20%	83 - 87.9	В		
Test #3	20%	79 - 82.9	C+		
Test #4	20%	75 - 78.9	C		
Lab assignments	5%	0 - 74.9	F		

All grades are "absolute" and will not be rounded off.

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Lecture 23:

TEST #4 –

COURSE OF STUDY (Subject to change)

Lecture 1:	Intro to 2D orientation				
Lecture 2:	Introduction to gross anatomy				
Lecture 3:	Abdominal aorta and branches				
Lecture 4:	Inferior Vena Cava and branches				
Lecture 5:	Liver and spleen				
TEST #1	Includes lectures 1 through 6				
Lecture 6:	Gallbladder and biliary tract				
Lecture 7:	Pancreas				
Lecture 8:	Kidneys, Ureters, and Adrenals				
Lecture 9:	Peritoneum, Retroperitoneum and Mesentery				
Lecture 10:	GI tract and abdominal musculature				
Lecture 11:	Male pelvis				
Lecture 12:	Female pelvis				
TEST #2	Includes lectures 7 through 12				
Lecture 13:	1 st Trimester pregnancy				
Lecture 14:	Fetal anatomy and fetal circulation				
Lecture 15:	The Thorax				
Lecture 16:	Mediastinum and Respiratory System				
Lecture 17:	Cardiovascular system – The Heart				
Lecture 18:	Cardiovascular system – Vessels				
TEST #3 -	Includes lectures 13 through 18				
Lecture 19:	The Breast, thyroid gland				
Lecture 20:	The Skull, Meninges, and Ventricular System				
Lecture 21:	The Brain – Embryology and Anatomy				
Lecture 22:	Vasculature of the Head and Neck				

Lower Limb Vasculature

Includes lectures 19 through 23