

**BERGEN COMMUNITY COLLEGE  
DIVISION OF HEALTH PROFESSIONS  
DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM**

**DMS 102 – Clinical Medicine and Patient Care**

**COURSE DESCRIPTION:** This course will enable the student to provide quality patient care while demonstrating the application of technical skills needed to perform ultrasound procedures. Medical term definitions will also be presented and practical applications of medical terminology will be covered. An understanding of pertinent emergency care, patient psychology, medical ethics, and management skills will be presented.

Lecture: 2 credits

Co-requisites: *DMS 101, DMS 115, DMS 113*

**COURSE OBJECTIVES:** The purpose of this course is to

1. Discuss the role of ultrasound and the sonographer as part of the health care team.
2. Provide the student with skills and knowledge necessary to care for the patient during an ultrasound examination.
3. Explain how sonographers can make ethical and medico-legal decisions within the scope of practice.
4. Discuss management responsibilities of the sonographer in running an efficient ultrasound department.
5. Develop an understanding of the components of medical words; i.e. roots, combining forms, prefixes, and suffixes.
6. Develop an understanding of standard medical abbreviations currently used in routine laboratory reports in patient care, surgical reports, and in communication.
7. Acquire an ability to spell and pronounce medical words.
8. Discover the meaning of unfamiliar words by analysis of their components.

**COURSE POLICIES:**

1. Quizzes and tests may only be made up within a week of the student's return to class in the testing center.
2. Students are expected to be punctual and attend class regularly. If for any reason absence cannot be avoided, students will be responsible for any materials missed.

**FINAL GRADE:** Final grades will be calculated as follows:

Quiz average (4)	30%	Attendance/Participation	10%
Midterm exam	30%	Final exam	30%

## **REQUIRED TEXT**

*Medical Terminology Express* by B.A. Gylys (1<sup>st</sup> edition, 2011).  
ISBN: 9780803623880

## **TOPICS COVERED**

Week 1	Introduction to Diagnostic Medical Sonography The Sonography student Introduction to medical terminology Word structure, word roots, suffixes, and prefixes
Week 2	Safety in Sonography – infection control, universal standards and precautions, hand washing, sterile technique, asepsis Terminology in body structure
Week 3	Preparing for an exam and assisting the patient – obtaining clinical information, assisting non-ambulatory patients, fall risk, transfer techniques Respiratory system terminology Quiz #1
Week 4	Ergonomics and ultrasound Cardiovascular system terminology
Week 5	Assessing the patient - vital signs, shock, diabetes, etc. Maslow's Hierarchy of needs, transcultural backgrounds Blood, lymphatic, and immune system terminology
Week 6	Sonographer's role during an exam – patient history, charts, obtaining best images, limitations, prep, scheduling, etc. Preliminary ultrasound impressions, record keeping, reporting findings to Radiologists Quiz #2 Midterm review
Week 7	MIDTERM
Week 8	Legal and ethical aspects in Ultrasound – confidentiality, patient Bill of Rights, malpractice insurance, torts, SDMS Professional Code of Conduct Digestive system terminology
Week 9	Contrast agents used in ultrasound Basic medications Urinary and reproductive system terminology

Week 10	Managerial responsibilities within the Ultrasound department Nervous and integumentary system terminology Quiz #3
Week 11	Basic Spanish phrases for the Sonographer Common abbreviations Endocrine system terminology
Week 12	Becoming a registered Sonographer, professional development Musculoskeletal system terminology
Week 13	Quiz #4 Final exam review
Week 14	FINAL EXAM
Week 15	Course wrap-up Grades

\*\*\*Course outline subject to change