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:
<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Quiz average (4)</td>
<td>30%</td>
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<tr>
<td>Attendance/Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm exam</td>
<td>30%</td>
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<tr>
<td>Final exam</td>
<td>30%</td>
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REQUIRED TEXT

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***