



INSTRUCTIONAL PACKAGE

DMS 114

DMS CROSS SECTIONAL ANATOMY

201910
FALL/2019

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: 201910

COURSE PREFIX: DMS 114

COURSE TITLE: DMS Cross Sectional Anatomy

CONTACT HOURS: 5

CREDIT HOURS: 3

RATIONALE FOR THE COURSE:

DMS 114 is an intensive foundational course of the Diagnostic Medical Sonography program's core curriculum. In this course, you will gain knowledge in cross-sectional and sagittal anatomy of the abdomen along with basic ultrasound scanning techniques. You will establish scanning criteria, standardization and quality scanning techniques, while learning the normal anatomy of the abdomen.

COURSE DESCRIPTION:

This course is a study of cross-sectional and sagittal anatomy of the abdomen, along with basic scanning techniques.

PREREQUISITES/CO-REQUISITES:

Acceptance into Diagnostic Medical Sonography Program

REQUIRED MATERIALS:

Please visit the Bookstore online site for most current textbook information. Use the direct link below to find textbooks.

[BOOKSTORE](#).

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's student portal for course materials.
WaveNet and D2L email access.

CLASSROOM ETIQUETTE:

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

NETIQUETTE: is the term commonly used to refer to conventions adopted by Internet users on the web, mailing lists, public forums, and in live chat focused on online communications etiquette. For more information regarding Netiquette expectations for distance learning courses, please visit [Online Netiquette](#).

Part II: Student Learning Outcomes

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

1. Examine ultrasound and the history of Diagnostic Medical Sonography.
2. Define the role and the qualities of a Sonographer.
3. Explore the professional organizations related to the Sonographic field.
4. Define descriptive terminology and how the body is divided.
5. Define the criteria for a cyst, complex or solid masses.
6. Implement skills of knobology in clinical applications of ultrasound.
7. Describe sonographic artifacts seen while scanning abdominal structures.
8. Demonstrate ability to obtain a health history.
9. Explain clinical signs and symptoms of various diseases encountered in Sonography.
10. Define the physiology of abdominal structures.
11. Explore and identify cross sectional anatomy of the abdomen, thorax and neck.
12. List various laboratory tests pertinent to the sonographic examination.
13. Identify various anatomical landmarks in ultrasound.
14. Demonstrate correct patient preparation, transducer selection, patient position, and images that should be obtained for all abdominal and soft tissue structures.
15. Execute proper Doppler technique in an abdominal sonogram.
16. Define the location of major body cavities, major organ systems, and organs associated with them, and their general function including physiology and pathology

Module #1

Materials Covered: Introduction to Sonography and the Ultrasound Exam
General Patient Care
Ultrasound Instrumentation: Knobology
*Chapters 1-3,
Curry Tempkin Textbook
*Chapter 1-4
Hagen Ansert Textbook

***Assessment(s):** Complete Workbook activity
Unit Test

Learning Outcomes:

1. Examine ultrasound and the history of Diagnostic Medical Sonography
2. Define the role and the qualities of a Sonographer

Module #2

Materials Covered: Body Systems,
Embryology,
Anatomy Layering and Sectional Anatomy

*Chapters 4-7 - Curry Tempkin Textbook

*Chapter 7 - Hagen Ansert Textbook

***Assessment(s):** Complete Workbook activity
Unit Test

Learning Outcomes:

1. Define descriptive terminology and how the body is divided
2. Define the criteria for a cyst, complex or solid masses
3. Implement skills of Knobology in clinical applications
4. Describe sonographic artifacts
5. Demonstrate ability to obtain a health history

Module #3

Materials Covered: Introduction to Small Parts Ultrasound

*Chapters 23 - Curry Tempkin Textbook

*Chapter 22 - Hagen Ansert Textbook

***Assessment(s):** Complete Workbook activity
Unit Test

Learning Outcomes:

1. Define the physiology of abdominal structures
2. List various laboratory tests pertinent to the sonographic examination
3. Identify various anatomical landmarks
4. Demonstrate correct patient preparation, transducer selection, patient position, and images that should be obtained for all abdominal and soft tissue structures

Module #4

Materials Covered: Abdominal Anatomy and Ultrasounds

*Chapters 8-16 - Curry Tempkin Textbook

*Chapter 9-15 - Hagen Ansert Textbook

***Assessment(s):** Complete Workbook activity
Unit Test

Learning Outcomes:

3. Identify various anatomical landmarks
4. Demonstrate correct patient preparation, transducer selection, patient position, and images that should be obtained for all abdominal and soft tissue structures
5. Execute proper Doppler technique in an abdominal sonogram
6. Define the location of major body cavities, major organ systems, and organs associated with them, and their general function including physiology and pathology
7. Explain clinical signs and symptoms of various diseases encountered in Sonography
8. Define the physiology of abdominal structures

****Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

Part III: Grading and Assessment

EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS*

Students’ performance will be assessed and the weight associated with the various measures/artifacts are listed below.

EVALUATION*

Chapter assignments	20%
Chapter Tests	40%
3D Project	20%
Final Exam	20 %
	100%

Methods of Evaluation: Exams, Image Analysis, Critical Thinking Analysis, quizzes and assignments comprise your grade.

****Students, for the specific number and type of evaluations, please refer to the Instructor’s Course Information Sheet.***

GRADING SYSTEM:

92 – 100	A
83 – 91	B
74– 82	C
65 – 73	D
64 and below	F

PLEASE NOTE: This is a major area course and requires a grade of 74% or better in order to progress to the following semester.

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop ([ACADEMIC CALENDAR](#)). You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

Part IV: Attendance

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

For online and hybrid courses, check your Instructor's Course Information Sheet for any required on-site meeting times. Please note, instructors may require tests to be taken at approved testing sites, if you use a testing center other than those provided by HGTC, the center may charge a fee for its services.

Part V: Student Resources



The Student Success and Tutoring Center (SSTC)

The SSTC offers to all students the following **free** resources:

1. **Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
2. **On-line student success and academic support resources**.

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, call: SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455 or go to the [Online Resource Center](#) to access on-demand resources any time.



Student Information Center: WaveNet Central (WNC)

WNC offers to all students the following **free** resources:

1. **Getting around HGTC**: General information and guidance for enrollment!
2. Use the [Online Resource Center \(ORC\)](#) for COMPASS support, technology education, and online tools.
3. **Drop-in technology support or scheduled training** in the Center or in class.
4. **In-person workshops, online tutorials and more services** are available.

Visit the WNC website: [Wavenet Central](#). Live Chat and Center locations are posted on the website. Or please call one of the following locations: WNC Conway, 349-5182; WNC Grand Strand, 477-2076; and WNC Georgetown, 520-1473.

Student Testing:

Testing in an **online/hybrid** course may be accomplished in a variety of ways:

- Test administered within D2L
- Test administered in writing on paper
- Test administered through Publisher Platforms

Further more tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through RPNOW, our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#)

section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

Disability Services:

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Beth Havens, Director of Student Development on the Conway Campus Jaime Davis, Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

Statement of Equal Opportunity/Non-Discrimination Statement

Horry-Georgetown Technical College prohibits discrimination and harassment, including sexual harassment and abuse, on the basis of race, color, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation in educational programs and/or activities.

Inquiries regarding the non-discrimination policies: Students and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs, Dr. Melissa Batten, VP Student Affairs, Title IX Coordinator, Building 1100, Room 107A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5228, Melissa.Batten@hgtc.edu. Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources, Jacquelyne Snyder, VP Human Resources, Section 504, Title II, and Title IX Coordinator, Building 200, Room 212A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5212, Jacquelyne.Snyder@hgtc.edu.

Title IX Requirements

All students (as well as other persons) at Horry-Georgetown Technical College are protected by Title IX—regardless of their sex, sexual orientation, gender identity, part- or full-time status, disability, race, or national origin—in all aspects of educational programs and activities. Any student, or other member of the college community, who believes that he/she is or has been a victim of sexual harassment or sexual violence may file a report with the college's Chief Student Services Officer, campus law enforcement, or with the college's Title IX Coordinator, or designee.

*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

<p>Inquiries regarding the non-discrimination policies:</p>	
<p>Student and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs.</p>	<p>Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources.</p>
<p>Dr. Melissa Batten, VP Student Affairs <i>Title IX Coordinator</i></p> <p>Building 1100, Room 107A, Conway Campus PO Box 261966, Conway, SC 29528-6066 843-349-5228 Melissa.Batten@hgtc.edu</p>	<p>Jacquelyne Snyder, VP Human Resources <i>Section 504, Title II, and Title IX Coordinator</i></p> <p>Building 200, Room 212A, Conway Campus PO Box 261966, Conway, SC 29528-6066 843-349-5212 Jacquelyne.Snyder@hgtc.edu</p>