3

HORRY GEORGETOWN TECHNICAL COLLEGE

INSTRUCTIONAL PACKAGE

DMS 166
Advanced Clinical Education

202230
Summer 2023

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: <u>202230</u>

COURSE PREFIX: DMS 166   COURSE TITLE: Advanced Clinical Education

CONTACT HOURS: 21   CREDIT HOURS: 7

RATIONALE FOR THE COURSE:

During this supervised clinical experience student's practice and continue development of ultrasound scanning skills and techniques. It provides continued active participation off campus in clinical Sonography. Emphasis is placed on imaging, processing, and technically evaluating Sonographic examinations. Upon completion, students should be able to image, process, and evaluate Sonographic examinations.

COURSE DESCRIPTION:

This course is supervised clinical experience and practice designed to continue and advance the student's ultrasound scanning skills and techniques.

PREREQUISITES/CO-REQUISITES: DMS 150

***Online/Hybrid** courses require students to complete the DLi Online Student Orientation prior to completing an online course. The DLi Online Student Orientation can be found in WaveNet, under the My Student tab.

REQUIRED MATERIALS:

Please visit the [BOOKSTORE](#) online site for most current textbook information. Use the direct link below to find textbooks.

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

ADDITIONAL REQUIREMENTS:

HGTC Diagnostic Sonography Clinical Handbook
DMS Student Handbook

TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's learning management system (LMS) used for course materials.
Access to myHGTC portal for student self-services.
College email access – this is the college's primary official form of communication.

STUDENT IDENTIFICATION VERIFICATION:

Students enrolled in online courses will be required to participate in a minimum of one (1) proctored assignment and/or one (1) virtual event to support student identification verification. Please refer to your Instructor Information Sheet for information regarding this requirement.

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*:

UPON COMPLETION OF THIS COURSE THE STUDENT SHOULD BE ABLE TO:

1. Participate effectively in the DMS Department.

2. Interact effectively with the supporting departments.

3. Demonstrate the DMS Professional Code of Ethics.

4. Demonstrate personal and professional growth and development in the clinic setting.

5. Demonstrate continued clinical progression with technical skill advancement.

6. Demonstrate competency in certain areas as assigned by Clinical Instructor.

7. Utilize machine instrumentation to obtain diagnostic ultrasound images.

Module 1
Learning Outcome: Oral and written communication
1. Maintain accurate clinical records.
2. Obtain and evaluate pertinent patient history and physical findings.
3. Interact with the interpreting physician or other designated physicians with oral or written summary of findings as permitted by employer policy and procedure.
4. Recognize significant clinical information and historical facts from the patient and the medical records, which may impact the diagnostic examination.
5. Comprehend and employ appropriate medical terminology, abbreviations, symbols, terms, and phrases; and
6. Educate other health care providers and the public in the appropriate applications of ultrasound and other diagnostic vascular evaluation, including the following:
7. Interact with radiologist with oral and written summary of findings.

*Course Assessments:
- Completed Competency Evaluations
- Professional Development evaluations
- Overall Evaluation of the Student's clinical skills

Module 2
Learning Outcome: Patient care and comfort
1. Provide basic patient care and comfort.
2. Anticipate and respond to the needs of the patient.
3. Demonstrate age related competency and respond to parental needs.
4. Maintain infection control and utilize standard precautions.
5. Anticipate and be able to respond to the needs of the patient.
6. Demonstrate age related competency (i.e., neonates, pediatric patients, adolescents, adults, and Obstetric patients)
7. Respond appropriately to parental needs.
8. Recognize when sedation may be appropriate.
9. Demonstrate appropriate care in nursery and intensive care environments (ancillary equipment, thermal, central venous lines, ET tubes, respiratory needs)
10. Use proper patient positioning.

*Course Assessments:
- Completed Competency Evaluations
- Professional Development evaluations
- Overall Evaluation of the Student's clinical skills

Module 3
Learning Outcome: Physiology, pathology, and pathophysiology.

1. Demonstrate anatomic structures in the region of interest.
2. Recognize the sonographic appearance and patterns of normal tissue structures.
3. Extend standard diagnostic testing protocol as required by patient history or initial findings.
4. Recognize examination findings that require immediate clinical response and notify the interpreting physician of such findings, including the following:
5. Utilize proper sonographic examination techniques.
6. Demonstrate diagnostic protocols related to specific site guidelines and disease conditions.
7. Physiology including blood flow dynamics.
8. Recognize and document pertinent pathology and pathophysiology.
9. Development of professional etiquette with staff and patients.
10. Demonstration of proficient directly supervised performance of ultrasound examinations performed at clinical rotation site.
11. Demonstrate mastery of specific ultrasound protocols.
12. Identify specific image evaluation criteria and anatomy for completed images specific to learned procedures.

*Course Assessments:
- Competency Evaluations
- Professional Development evaluations
- Overall Evaluation of the Student's clinical skills

Module 4
Learning Outcome: Acoustic physics, Doppler ultrasound principles and ultrasound instrumentation.

1. Select the appropriate technique(s) for examination(s) being performed.
2. Adjust instrument controls to optimize image quality.
3. Perform linear, area, circumference, and other related measurements from sonographic images or data.
4. Recognize and compensate for acoustical artifacts
5. Minimize patient exposure to acoustic energy
6. Apply basic concepts of acoustic physics which include the following:
   - Operator control options
   - Physics of Doppler
   - Acoustic artifacts
7. Explore emerging technologies in the clinical setting.

Course Assessments:
- Competency Evaluations
- Professional Development evaluations
- Overall Evaluation of the Student's clinical skills

Module 5
Learning Outcome: Professional judgment and discretion.

1. Protect the patient's right to privacy based on current federal standards and regulations.
2. Maintain confidentiality of all patients.
3. Adhere to the professional codes of conduct/ethics through the following:

Course Assessments:
- Competency Evaluations
- Professional Development evaluations
- Discussion evaluation

Module 6
Learning Outcome: **Ergonomics**

1. Demonstrate and employ, ergonomically correct scanning techniques with equipment adjustment and patient positioning.

Course Assessments:
- Clinical Visit Summary
- Discussion evaluation

Module 7: Capstone Project

Learning Outcomes:
  2. Demonstrates Continued Clinical Progression

Course Assessments:
- Sonographic lab Proficiency

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*

Competencies	50%
Evaluations	15%
Lab Scanning Capstone	15%
Clinical Visit Assessment	15%
Weekly Log sheets and discussions	5%
	100%

April 2023

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

General Education Outcomes

This course fulfills the following General Education Outcomes through the (list the appropriate assessment). Upon completion of this course, students will be able to:

☒ Communicate effectively.
☐ Think critically.
☐ Self and professional development.

GRADING SYSTEM:

Please note the department adheres to the following grading scale for all clinical coursework:

A = 100–96
B = 95-90
C = 89-84
D = 83-80
F = 79 and below.

4 points- Excellent-Outstanding Performance
3 points- Consistently Good Performance
2 points- Satisfactory performance with minor corrections
1 point- Poor Performance, needs marked improvement, no initiative.
0 point- Non-performance

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. 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, and 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 tutors** for most subject areas, **Writing Center support**, and **college success skills**.
2. Online **tutoring** and academic support resources.
3. Professional and interpersonal communication **coaching** in the EPIC Labs.

Visit the Student Success & Tutoring Center website for more information. To schedule tutoring appointments using TutorTrac, visit the Student Services tab in WaveNet. Email sstc@hgtc.edu or 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.

STUDENT INFORMATION CENTER: TECH Central

TECH Central offers to all students the following <u>free</u> resources:

1. **Getting around HGTC**: General information and guidance for enrollment, financial aid, registration, and payment plan support!
2. Use the [Online Resource Center (ORC)](#) including Office 365 support, password resets, and username information.
3. **In-person workshops, online tutorials and more services** are available in Desire2Learn, Student Portal, Degree Works, and Office 365.
4. **Chat with our staff on TECH Talk**, our live chat service. TECH Talk can be accessed on the student portal and on TECH Central's website, or by texting questions to (843) 375-8552.

Visit the [Tech Central](#) website for more information. Live Chat and Center locations are posted on the website. Or please call (843) 349 – TECH (8324), Option #1

HGTC LIBRARY:

Each campus location has a library where HGTC students, faculty, and staff may check out materials with their HGTC ID. All three HGTC campus libraries are equipped with computers to support academic research and related school work; printing is available as well. Visit the [Library](#) website for more information or call (843) 349-5268.

STUDENT TESTING:

Testing in an **online/hybrid** course and in **make-up exam** situations may be accomplished in a variety of ways:

- Test administered within D2L
- Test administered in writing on paper
- Test administered through Publisher Platforms (which may have a fee associated with the usage)

Furthermore, tests may have time limits and/or require a proctor.

April 2023

Proctoring can be accomplished either face-to-face at an approved site or online through 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 HGTC's Accessibility and Disability Service webpage. The Accessibility and Disability staff 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.

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).

INQUIRIES REGARDING THE NON-DISCRIMINATION/TITLE IX POLICIES:

Student and prospective student inquiries concerning Section 504, Title II, Title VII, 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, Section 504, and Title II Coordinator*

April 2023

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
Affirmative Action/Equal Opportunity Officer and Title IX Coordinator
Building 200, Room 205B, Conway Campus
PO Box 261966, Conway, SC 29528-6066
843-349-5212
Jacquelyne.Snyder@hgtc.edu