INSTRUCTIONAL PACKAGE

DMS 166

Advanced Clinical Education

201730
Summer 2018

INSTRUCTIONAL PACKAGE

PART I: COURSE INFORMATION

Effective Term: <u>201730</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:
NOTE: Copy from the Banner Course Catalog and paste here.
***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.
[BOOKSTORE](#).

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 Student Handbook
Medical Imaging Sciences Student Handbook

TECHNICAL REQUIREMENTS:
Trajecsys online record keeping system
Access to Desire2Learn (D2L), HGTC's student portal for course materials.
WaveNet and D2L email access.

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

Module 5
*Learning Outcome: P*rofessional 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:
- Completed Competency Evaluations
- Professional Development evaluations

Module 6
Learning Outcome: Ergonomics

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

*Course Assessments:
- Clinical Visit Summary

Module 7: Capstone Project

Learning Outcomes:
    2. Demonstrates Continued Clinical Progression

*Course Assessments:
Completed OB Sonographic evaluation

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

General Education Outcomes

Please delete the section if this course is not part of the Gen Ed PLO assessment artifact process.

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

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

March 2018

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	20%
Lab Scanning Capstone	28%
Weekly Log sheets	2%
	100%

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

GRADING SYSTEM:

100-96%	A-4 quality points
95-90%	B-3 quality points
89-84%	C-2 quality points
83-80%	D-1 quality point
79% or below	F-0 quality points

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

State the College's or departmental grading system as delineated in the Catalog. Please note the College adheres to a 10 point grading scale A = 100 – 90, B = 89- 80, C = 79 – 70, D = 69 – 60, F = 59 and below. You must have your Dean's approval if changes in the scale are made.

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 eighty percent (80%) of his or her classes in order to be eligible to receive credit for any course. However, due to the varied nature of courses taught at the College, a more rigid attendance policy may be required by individual instructors. At a minimum, a student may be withdrawn from a course(s) after he or she has been absent in excess of ten percent (10%) of the total contact hours for a course. **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. Room locations and Live Chat is available on the SSTC website.

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: (If course is offered in multiple format include this section, delete if only F2F sections are offered.)

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 Jocelyn Williams, 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, gender, national or ethnic origin, age, religion, disability, marital status, veteran status, sexual orientation, gender identity, or pregnancy in educational programs and/or activities.

Title IX Requirements

Horry Georgetown Technical College prohibits the offenses of domestic violence, dating violence, sexual assault, and stalking. Any student who believe he or she has experienced or witnessed discrimination including sexual harassment, domestic violence, dating violence, sexual assault or stalking is encouraged to report such incidents to one of the College's Title IX Coordinators.

> *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 policies:	
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 Associate Vice President for Student Affairs.	Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Associate Vice President for Human Resources.
Dr. Melissa Batten, AVP 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	**Jacquelyne Snyder, AVP 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

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