



INSTRUCTIONAL PACKAGE

RAD 220

Selected Imaging Topics

201920

Spring 2020

INSTRUCTIONAL PACKAGE

Part I: Course Information

Effective Term: 201920

COURSE PREFIX: RAD 220

COURSE TITLE: Selected Imaging Topics

CONTACT HOURS: 3

CREDIT HOURS: 3

RATIONALE FOR THE COURSE:

This course was developed to help round out the student's educational content by briefly covering specific areas not learned in the other RAD classes. It is also a preparatory course for their national certification exam, The American Registry of Radiologic Technology.

COURSE DESCRIPTION:

This course is a study of advanced topics unique to the radiological sciences.

The content specific areas of Patient Care, Radiographic Procedures and Positioning, Radiation Protection Principles, Radiographic Exposure Principles and Radiographic Imaging and Equipment will be covered for preparation for the registry

PREREQUISITES/CO-REQUISITES: All previous RAD courses.

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.

Required Textbooks:

D.A.SAIA	LANGE Q+A RADIOGRAPHY EXAM.	ISBN:
978-125986359-2	11TH Edition McGraw Hill publisher	

D.A.SAIA	RADIOGRAPHY PREPARATION	ISBN:
978-125986357-8	9TH Edition McGraw Hill publisher	

Recommended Material:

Textbook:

William Callaway	Mosby's Comprehensive Review of Radiography
ISBN: 978-0-323-08078-1	7 th Edition, Elsevier

ADDITIONAL REQUIREMENTS:

Calculators for math problems. Students need to set up an Elsevier Evolve account to access testing and studying materials.

Students are expected to utilize the radiography modules on the classroom computers for practice. The computer modules can be used during and after class as available.

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.

As a group we are with each other for a long time and sometimes with familiarity we can become too comfortable with one another and we can display inappropriate behavior. Occasionally, we do not realize it is not appropriate for the classroom setting. Although we have a lot of policy and procedures already to follow, here is a review of proper classroom etiquette as adopted from Dr. Nardo of Ogelthorpe University. Demonstrating the following qualities shows **respect for your professor and fellow students**. It also upholds the integrity of the classroom.

1. Arrive on time to class.
2. Bring the materials needed for class.
3. **Turn off cell phones and texting devices in class.**
4. Use laptops/computers as it relates to classroom activities.
5. Create appropriate emails from your wavenet account. When emailing Dr. Gleasman please use **douglas.gleasman@hgtc.edu**
6. Be attentive in class.
7. Dress appropriately.
8. Do not criticize or complain about another professor/instructor in front of or to another professor.
9. Stay the entire class.
10. **Do the work and avoid excuses/complaints.**
11. Use professional language and **avoid sarcastic and inappropriate comments.**
12. Take your own notes and do your own work.
13. Avoid asking **inappropriate** or **thoughtless** questions.

Abide by the honor and conduct code of HGTC as outlined in the College Catalog.

Part II: Student Learning Outcomes

Students should be able to:

1. Summarize routine and special radiographic procedures most often performed in medical facilities.
2. Recognize and know how to respond to diverse situations involving all types of patients.
3. Explain why varied body compositions or artifacts affects the radiographic image.
4. Utilize the principles behind proper radiation protection and know specifically where and when to apply these principles.
5. Critique radiographic images for positioning, proper visibility and geometrical qualities.
6. Describe the principles of image production and exposure and acquisition principles
7. Demonstrate knowledge of proper patient care methods
8. Interpret the basic principles behind radiographic equipment operation and maintenance.
9. Prepare for the ARRT exam.

COURSE LEARNING OUTCOMES and ASSESSMENTS*:

JAN	14	Instructional Package/HESI Exams/Elsevier-Evolve account	
	16	ARRT National Registry Examination – What to expect exam day ARRT Exam Requirements www.arrt.org /SC State Licensure	
	21	SAFETY III (PG 235) Chap. 8 Radiation Physics and Radiobiology Chapter Review ques.1-10 Chapter 3 Rad. Examination – ques. 1-50	<u>Assignment #1</u> pg. 237-258 pg. 258 pgs. 127-132
	23	April D. Garner / Career Resource Center Coordinator Cover Letter / Resume Writing / Mock Interview	
	28	100 Question Mid-Curriculum HESI Examination (Room #1281)	
	30	Chap.9 Patient Protection Chapter Review ques.1-10 Rad. Exam. – Chapter 3 – ques. 51-100	<u>Assignment #2</u> pgs. 261-276 pg. 278 pgs. 132-138
FEB	04	Chap. 10 Personnel Protection Chapter review ques. 1-10 Rad. Exam. – Chapter 3 – ques. 101-150	<u>Assignment #3</u> pgs. 281-290 pg. 292 pgs. 138-143

FEB	06	Chap. 11 Radiation Exposure and Monitoring Chapter review ques. 1-10 Rad. Exam. - Chapter 3 – ques. 151-200	<u>Assignment #4</u> pgs. 295-305 pg. 307 pgs. 143-149
FEB	11	<u>UNIT TEST #1</u> (Room #1281) <i>SAFETY- RADIATION PHYSICS, RADIOBIOLOGY AND PROTECTION</i>	
	13	<u>IMAGE PRODUCTION UNIT IV</u> Chap.12 Image Acquisition and Technical Evaluation Chapter review ques. 1-15 Rad. Exam. - Chapter 4 – ques. 1-117	<u>Assignment #5</u> Pg. 309 pgs. 311-341 pg. 344-345 pgs. 183-199
	18	Chap 12 (continued) Chapter review ques. 1-10 Rad. Exam. – Chapter 4 – ques. 118-234	<u>Assignment #6</u> pgs. 348-361 pg. 363 pgs. 200-215
	20	Chap. 13 Equipment Operation and Quality Assurance Chapter review ques. 1-10 Rad. Exam. – Chapter 5 – ques. 1-50	<u>Assignment #7</u> pgs. 367-383 pg. 385 pgs. 255-260
FEB	25	Chap. 13 (Continued) Chapter Review ques. 1-10 Rad Exam. – Chapter 5 – ques. 51-100	<u>Assignment #8</u> pgs. 388-402 pg. 404 pgs. 260-267
	27	Chap. 13 (Continued) Chapter review ques. 1-10 Chapter review ques. 1-10 Rad. Exam. – Chapter 5 – ques. 101-143	<u>Assignment #9</u> pgs. 407-427 pgs. 418-419 pg. 429 pgs. 267-271

FEB 28 – MAR 2 **Atlanta Conference** – Atlanta Georgia (No class)

Assignment for students not attending Conference (No Drop Box-Use Scan-tron

Hand in hard copy on 2/11/2019)

RAD Exam. - Cpt. 6- Practice Test #1 ques. 1-200 pgs. 299-325

MAR 03	<u>Cover Letter and Resume due date: All Final Letters and Resumes must be submitted to April Garners office by 3/3/2020</u>	<u>Assignment #10</u>
	Chapter 13 (Continued)	pgs. 432-458
	Chapter review ques. 1-10	pg. 446
	Chapter review ques. 1-10	pg. 460
	Rad. Prep.– Chapter 14–Practice Test ques. 1-100	pgs. 487-500
05	Chapter.13 (Continued)	<u>Assignment #11</u>
	Chapter review ques. 1-10	pgs. 463-482
	Chapter review ques. 1-10	pg. 473
	Chapter review ques. 1-10	pg. 484
	Radiography Prep–Cpt.14– Practice Test ques.101–200	pgs. 501-512
MAR 10	<u>UNIT TEST #2</u> (Room #1281) <u>IMAGE ACQUISITION AND EVALUATION</u> <u>EQUIPMENT OPERATION/QUALITY CONTROL</u> <u>MID-SEMESTER CONSULTATION</u>	
12	<u>PROCEDURES UNIT II</u>	<u>Assignment #12</u>
	Chap. 6 General Procedural Considerations	pg. 83-96
	Chapter review ques. 1-10	pgs. 98
	Rad. Exam. – Chapter 2 – ques. 1-75	pg. 37
	<u>MID-SEMESTER CONSULTATION</u>	pgs. 37-48
17	Chap. 7 Image Procedures: Anatomy, Positioning, Pathology	<u>Assignment #13</u>
	Chapter review ques. 1-15	pgs. 101-130
	Rad. Exam. – Chapter 2 – ques. 76-150	pgs. 221-222
		pgs. 48-59
MAR 19	Chap. 7 (Continued)	<u>Assignment #14</u>
	Chapter review ques. 16-30	pgs. 131-160
	Rad. Exam. – Chapter 2 - ques. 151-225	pgs. 222-224
		pgs. 59-70
23 - 27	<u>SPRING BREAK !!!!!</u> <u>ENJOY !!!!!</u> You have earned it !!!!!	
MAR 31	Chap. 7 (Continued)	<u>Assignment #15</u>
	Chapter review ques. 31-45	pgs. 161-190
	Rad. Exam. – Chapter 2 – ques. 226-300	pgs. 224-225
		pgs. 70-79
APR 02	Chap. 7 (Continued)	<u>Assignment #16</u>
	Chapter review ques. 46-60	pgs. 191-219
		pgs. 225-227

07 **UNIT TEST #3** (Room #1281)
POSITIONING AND PROCEDURES

APR 09 **PATIENT CARE - UNIT I** **Assignment #17**

Chap. 1 Legal and Ethical Aspects pg. 1-2
Chapter review ques. 1-10 pgs. 3-12
Rad. Exam. – Chapter 1 – ques. 1-26 pg. 14
 pgs. 1-3

14 Chap. 2 Interpersonal Communication **Assignment #18**
Chapter review ques. 1-10 pgs. 17-23
Rad. Exam. – Chapter 1 – ques. 27-52 pgs. 25
 pgs. 4-8

16 Chap. 3 Physical Assistance, Monitoring **Assignment #19**
And Medical Emergencies pgs. 29-46
Chapter review ques. 1-10 pg. 49
Rad. Exam. – Chapter 1 – ques. 53-78 pgs. 8-11

21 Chap. 4 Infection Prevention and Control **Assignment #20**
Chapter review ques. 1-10 pgs. 53-62
Rad. Exam. – Chapter 1 – ques. 79-104 pgs. 64
 pgs. 9-12

****Deadline to perform Mock Interviews !!!! All Mock Interviews are to be performed no later than 4/21/2020!***

23 Chapter. 5 Pharmacology **Assignment #21**
Chapter review Ques. 1-10 pgs. 67-77
Rad Exam. – Chapter 1 – ques. 105-130 pg. 79
 pgs. 12-15

28 **UNIT TEST #4** (Room #1281)
PATIENT CARE AND ETHICS

30 Review for Final Examination - **Last Day of Lecture**

MAY 5 **COMPREHENSIVE FINAL EXAM (9am-12pm)**
HESI REGISTRY EXAMINATION (Room #1281)

****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.

Methods of Instruction: Lecture, discussion, note taking, AV materials, problem solving and class handouts. Students will be required to prepare a Resume and perform a mock interview at the conclusion of the course.

Types of Questions: Questions will be based on knowledge, comprehension, application, analysis and evaluation skills. Most questions will be in a multiple-choice format, although short answer, true and false, matching and diagramming may be incorporated.

Unit Exams, Final Exam, Quizzes and Assignments, and the Mock interview comprise your assigned grade. All grades will be posted on D2L a minimum of 24 Hrs.- 48 Hrs. after everyone in the class has taken the test or turned in the assignment. The time frame will vary depending on the type of assignment or examination. Homework assignments not handed in on the due date will **lose 5 points for every day the assignment is submitted beyond the due date.** Failure to achieve a grade of 75% or greater on unit test or 70% or greater on a quiz will require a mandatory meeting with the instructor.

Final grades will be weighted/calculated based on the following:

Unit Tests	50%
Quizzes	20%
Mock Interview	10%
Homework	5%
Final Exam	15%

<u>Grading scale:</u>	92 – 100	A
	83 - 91	B
	74 – 82	C
	65 -73	D
	64 and below	F

GRADING SYSTEM:

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 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.**

Students in the HGTC Radiologic Technology Program are responsible for all course work and assignments. Attendance is a must. In this course a student **may not exceed more than 3 absences** as the Radiography Program requires a 90% attendance. A written warning results after your second absence. A third absence results in a final written warning. Any further absences are grounds for dismissal. If a student is absent on the day of a test or quiz, the student must notify the instructor within 24 hours to schedule a makeup exam. The student and instructor will schedule a time and place to make up the test. A student who calls in absent a second time on a test day must present a valid written dated excuse for the absence in order to make up the test/quiz. **It is very important you are present on test days as the examinations are scheduled with HESI and can only be accessed for a limited amount of time.**

Tardies- (3) tardies = (1) absence with a verbal warning, (4) = written warning, (5th) final written warning. A (6th) offense will result in dismissal from the program.

Academic Integrity: Students are expected to be forthright and honest in their academic endeavors. Any form of academic dishonesty will be dealt with according to the HGTC's policy on academic dishonesty.

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.

TECH Central – Student Information Center



TECH Central provides quality enrollment and collegiate guidance for students, faculty, and staff. Services include phone, walk-in, and online technical support for technology training and troubleshooting. Additionally, we offer support in Office 365, Outlook E-mail setup, and ID cards.

Phone: 843-349-5340

Email: techcentral@hgtc.edu

Text: 843-357-8552

TECH Talk (Live Chat): Located on the "Home" tab in WaveNet.

Website: www.hgtc.edu/techcentral

Locations:

Conway Building 1100, Room 132D

Grand Strand Building 200, Room 136

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).

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 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 Vice President for Human Resources.

<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>
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