

DAS.DTA				
COURSE	Course SLOs	Program Goal (PSLO)	Didactic or Lab/Clinical	Sem./Yr. in Assessment Cycle
AHS 110 Patient Care for Radiologic Tech.	1. Discuss drug standards and methods of control	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
AHS 110 Patient Care for Radiologic Tech.	2. Discuss the proper protocol for management of a medical emergency in a clinical setting	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2018
AHS 110 Patient Care for Radiologic Tech.	3. Discuss the importance of taking vital signs and oxygen administration	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2107
AHS 110 Patient Care for Radiologic Tech.	4. Discuss the proper method of infection control in a clinical setting	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2018
RAD 101 Introduction to radiologic Technology	1. Describe and discuss ethics, professionalism and medicolegal consideration in health care/radiologic technology	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment	D	Fall 2016
RAD 101 Introduction to radiologic Technology	2. Define in written and verbal form basic radiation protection & general safety pertaining to the patient and technologist	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Fall 2018
RAD 101 Introduction to radiologic Technology	3. Describe and discuss the history, organization, & function of a Radiology Department	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
RAD 101 Introduction to radiologic Technology	4. Describe and discuss basic conventional and digital imaging equipment	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
RAD 101 Introduction to radiologic Technology	5. Describe and discuss professional development, career advancement and continuing education for the radiologic technologist	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment	D	Fall 2018
RAD 110 Radiographic Imaging I	1. Explain the methods of x-ray production occurring in the radiographic tube.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2017
RAD 110 Radiographic Imaging I	2. Describe the electromagnetic spectrum in terms of ionizing and nonionizing sources and the characteristics of each	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018
RAD 110 Radiographic Imaging I	3. Explain beam attenuation according to tissue thickness, presence of pathology, and trauma considerations.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2019
RAD 110 Radiographic Imaging I	4. Explain the methods of image acquisition in diagnostic radiology and the factors affecting the image quality.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2017
RAD 110 Radiographic Imaging I	5. Describe scatter control methods and the effect scatter has upon image quality.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Spring 2018

RAD 115 Radiographic Imaging II	1. Describe the factors affecting radiographic density, radiographic contrast, recorded detail and distortion on the radiographic image and explain how the manipulation of these factors affect image quality and patient dose.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Summer 2017
RAD 115 Radiographic Imaging II	2. Identify and describe the components of the x-ray tube including their location and function in x-ray production	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2018
RAD 115 Radiographic Imaging II	3. Explain the construction, function, and application of image receptors in the creation of the radiographic image	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2019
RAD 115 Radiographic Imaging II	4. Explain the use of technique charts through the evaluation of body habitus, presence of pathology, patient age, trauma, and mobile radiography considerations.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Summer 2018
RAD 115 Radiographic Imaging II	5. Explain sensitometry in terms of equipment used, components of the sensitometric curve, and the implications upon image quality	Technology: Adapt new technology into existing high quality practices of patient care in Radiology through the use of ionizing radiation	D	Summer 2017
RAD 115 Radiographic Imaging II	6. Describe the basic components of the computer, operating systems used, computer language and explain the uses of PACS and computer workstations.	Technology: Adapt new technology into existing high quality practices of patient care in Radiology through the use of ionizing radiation	D	Summer 2019
RAD 121 Radiographic Physics	1. Discuss operation of the x-ray circuit	Technology: Adapt new technology into existing high quality practices of patient care in Radiology through the use of ionizing radiation	D	Spring 2017
RAD 121 Radiographic Physics	2. Describe x-ray production within the tube	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018
RAD 121 Radiographic Physics	3. Identify each of the five interactions with matter	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2017
RAD 121 Radiographic Physics	4. Identify the primary differences between conventional and digital imaging.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018
RAD 130 Radiographic Procedures I	1. Demonstrate proper central ray locations for examinations of the upper extremities.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2017
RAD 130 Radiographic Procedures I	2. Critique finished radiographs for appropriate radiographic quality	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Spring 2018
RAD 130 Radiographic Procedures I	3. Understand and implement radiation protection procedures as outlined by ALARA	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Spring 2019
RAD 130 Radiographic Procedures I	4. Identify on a radiograph, all pertinent anatomical structures of the chest cavity.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2017
RAD 130 Radiographic Procedures I	5. Identify which structures are best seen with each routine and special projection for the upper extremities.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018

RAD 130 Radiographic Procedures I	6. Identify specific joints of the foot, ankle, leg, and knee according to the correct classification and movement	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2019
RAD 136 Radiographic Procedures II	1. Discuss routine and specialized projections utilized in facial bone radiography and what structures are seen in each projection.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2018
RAD 136 Radiographic Procedures II	2. Demonstrate proper positioning methods for performing radiographic exams of the lumbar spine.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2017
RAD 136 Radiographic Procedures II	3. Identify the anatomic structures of the lumbar spine, sacrum, and coccyx.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2017
RAD 136 Radiographic Procedures II	4. Identify cranial anatomical structures including boney anatomy as well as cranial sutures.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2018
RAD 153 Applied Radiography I	1. Identify the correct sequence of steps taken to perform a routine radiographic procedure	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	C	Fall 2018
RAD 153 Applied Radiography I	2. Describe the three important positioning criteria that must be present on chest radiographs using erect PA and lateral positions.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2018
RAD 153 Applied Radiography I	3. Demonstrate principles of ALARA during patient treatment	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Fall 2017
RAD 153 Applied Radiography I	4. Identify specific methods to reduce exposure to the technologist	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Fall 2017
RAD 165 Applied Radiography II	1. Demonstrate proper radiographic room preparation	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	C	Spring 2017
RAD 165 Applied Radiography II	2. Demonstrate proper chart evaluation and documentation	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	C	Spring 2018
RAD 165 Applied Radiography II	3. Demonstrate proper selection and use of technical factors for producing a radiographic image	Technology: Adapt new technology into existing high quality practices of patient care in Radiology through the use of ionizing radiation	C	Spring 2019
RAD 165 Applied Radiography II	4. Demonstrate proper positioning skills for producing a radiographic image.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	C	Spring 2018
RAD 165 Applied Radiography II	5. Demonstrate protection principles during imaging procedures	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	C	Spring 2017
RAD 175 Applied Radiography III	1. Demonstrate proper selection and use of technical factors for producing radiographic image	Technology: Adapt new technology into existing high quality practices of patient care in Radiology through the use of ionizing radiation	C	Spring 2018
RAD 175 Applied Radiography III	2. Demonstrate proper procedures in verifying patient identification and introduction of technician	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment	C	Spring 2017

RAD 175 Applied Radiography III	3. Apply radiation protection principles in the performance of imaging procedures	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	C	Spring 2018
RAD 175 Applied Radiography III	4. Demonstrate proper use of radiographic markers	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	C	Spring 2017
RAD 201 Radiation Protection & Biology	1. Describe radiation protection methods applied to protect the patient and the Radiologic Technologist.	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Summer 2017
RAD 201 Radiation Protection & Biology	2. Explain the interactions of x-radiation with matter and attenuation of the beam according to energy, tissue composition, and pathological conditions.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2018
RAD 201 Radiation Protection & Biology	3. Describe the different forms of particulate and electromagnetic radiations in terms of energy, sources, ionization potential and biologic effects.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2019
RAD 201 Radiation Protection & Biology	4. Explain the dose limits for ionizing radiation exposure and the agencies responsible for these recommendations	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Summer 2017
RAD 201 Radiation Protection & Biology	5. Explain how equipment is designed to ensure radiation protection.	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Summer 2019
RAD 201 Radiation Protection & Biology	6. Explain how patient and imaging personnel dose is managed during diagnostic x-ray procedures.	Communication: Communicate effectively with patients, other health professionals and the public.	D	Summer 2018
RAD 205 Radiographic Pathology	1. Define Key pathological disease processes and terms	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2018
RAD 205 Radiographic Pathology	2. Describe the changes in radiographic technique required by pathologic conditions that affect the Respiratory System	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
RAD 205 Radiographic Pathology	3. Describe the changes in radiographic technique required by pathologic conditions that affect the skeletal system	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
RAD 210 Principles of Radiographic Imaging III	1. Describe the factors affecting radiographic density and contrast.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Fall 2018
RAD 210 Principles of Radiographic Imaging III	2. Determine how to manipulate factors to enhance recorded detail and minimize distortion	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Fall 2016
RAD 210 Principles of Radiographic Imaging III	3. Determine the purpose and problems encountered with automatic exposure control	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Fall 2017
RAD 210 Principles of Radiographic Imaging III	4. State the purpose of a technique chart and solve multiple-factor technique problems.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	D	Fall 2017
RAD 210 Principles of Radiographic Imaging III	5. Describe factors affecting digital image quality and artifacts.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2018

RAD 220 Selected Imaging Topics	1. Describe the circulatory system and vascular system associated with the brain, thorax, abdomen, pelvis and extremities	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018
RAD 220 Selected Imaging Topics	2. Differentiate between invasive, noninvasive and interventional medical imaging	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2017
RAD 220 Selected Imaging Topics	3. Explain the Radiographer's role in assisting the Radiologist in advanced procedures (CTA, MRA, Biopsy, PET, etc.) performed within medical imaging department.	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment	D	Spring 2018
RAD 220 Selected Imaging Topics	4. Describe the various immobilization devices specially designed for the pediatric/geriatric patient in the Radiology Department.	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Spring 2017
RAD 230 Radiographic Positioning III	1. List the routine and special positions or projections for an upper gastrointestinal (GI) series and lower gastrointestinal series to include size and type image receptor, central ray location, direction and angulation of the central ray, and anatomy best demonstrated	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
RAD 230 Radiographic Positioning III	2. Identify the contrast media used in procedures for an upper gastrointestinal series and lower gastrointestinal series	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2017
RAD 230 Radiographic Positioning III	3. Describe body and part positioning for the upper gastrointestinal and lower gastrointestinal tract	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2016
RAD 230 Radiographic Positioning III	4. List the anatomy of the upper gastrointestinal and lower gastrointestinal tract	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Fall 2018
RAD 230 Radiographic Positioning III	5. Write a research paper or develop a project on a specific subject in the field of radiology	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment		Fall 2018
RAD 235 Radiography Seminar I	1. Demonstrate knowledge of radiographic equipment operation and quality control.	Technology: Adapt new technology into existing high quality practices of patient care in Radiology through the use of ionizing radiation	D	Spring 2017
RAD 235 Radiography Seminar I	2. Demonstrate knowledge of image acquisition and evaluation.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018
RAD 235 Radiography Seminar I	3. Discuss new and innovative imaging procedures in the field of radiology.	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment	D	Spring 2019
RAD 235 Radiography Seminar I	4. Demonstrate knowledge of radiation protection	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	D	Spring 2017

RAD 235 Radiography Seminar I	5. Demonstrate knowledge of imaging procedures of the body	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	D	Spring 2018
RAD 257 Advanced Radiography	1. Evaluate the performance of radiographic systems, observe the safe limits of equipment operation and report malfunctions to appropriate personnel.	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	C	Fall 2018
RAD 257 Advanced Radiography	2. Demonstrates proper patient positioning and efficient equipment manipulation to achieve radiographic image	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	C	Fall 2017
RAD 257 Advanced Radiography	3. Adapts approach to communication based upon patient and family unique needs and requirements.	Communication: Communicate effectively with patients, other health professionals and the public.	C	Fall 2016
RAD 257 Advanced Radiography	4. Evaluate and critique images for anatomy, positioning, and pathology	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	C	Fall 2017
RAD 257 Advanced Radiography	5. Exercises collaborative judgement and discretion in the technical performance of medical imaging procedures.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	C	Fall 2018
RAD 266 Advanced Radiography II	1. Exercises independent judgement and adjustments in the technical performance of medical imaging procedures.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	C	Spring 2017
RAD 266 Advanced Radiography II	2. Evaluate, critique and adjust images for anatomy, positioning, pathology and body habitus.	Critical Thinking: Utilize problem-solving and critical thinking skills necessary to function in a changing healthcare environment.	C	Spring 2018
RAD 266 Advanced Radiography II	3. Communicates effectively and appropriately to patients, families and the health care team.	Communication: Communicate effectively with patients, other health professionals and the public.	C	Spring 2019
RAD 266 Advanced Radiography II	4. Practices ethical and legal accountability and responsibility in health care delivery.	Professionalism & Ethics: Demonstrate professionalism by modeling professional values and ethics; making a commitment to continuing education and life-long learning and through assumption of leadership roles in the profession and work environment	C	Spring 2017
RAD 266 Advanced Radiography II	5. Demonstrates advanced and appropriate patient positioning and efficient equipment manipulation to achieve optimal radiographic image.	Integration: Integrate the didactic and psychomotor skills and apply them to the clinical environment in order to provide holistic patient care.	C	Spring 2018
RAD 266 Advanced Radiography II	6. Proactively evaluate the performance of radiographic equipment to maintain safety of patients and professionals	Quality & Safety: Conduct all radiologic work with care and precision and demonstrate a commitment to radiation safety practices	C	Spring 2019

Florence-Darlington Technical College

Radiologic Technology Program

Assessment-Systematic Evaluation Plan Report

Program Student Learning Outcome:

Communication: Radiologic Technology graduates will be able communicate effectively with a variety of patients from culturally diverse backgrounds, in addition to the health care team.

Course Number	Course Student Learning Outcome	Assessment Method	Benchmark	Actual Level of Achievement	Action Plan	Time Interval
RAD 230	Write a research paper or develop a project on a specific subject in the field of radiology	Student must achieve the required score or higher on the written research paper or project	Students will score 85% or higher research paper rubric	90.7%	Provide access to proper methods of researching and developing a paper or project.	Fall 2017
RAD 257	Adapts approach to communication based upon patient and family unique needs and requirements	Student must achieve the required score or higher on the performance in patient care and communication section of a staff competency	Students will score 3 or higher out of a 4 point scale	3.46%	Review methods available for communicating with patients who have special needs	Fall 2017

Florence-Darlington Technical College

Radiologic Technology Program

Assessment-Systematic Evaluation Plan Report

Program Student Learning Outcome:

Critical Thinking: Radiologic Technology graduates will be able to integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Number	Course Student Learning Outcome	Assessment Method	Benchmark	Actual Level of Achievement	Action Plan	Time Interval
AHS 110	Describe and discuss the proper method(s) for dealing with medical emergencies in an imaging department	Students must achieve the required score or higher on the medical emergencies test.	Students will score 85% or higher	86.4%	Review proper procedure for dealing with patient in shock (anaphylactic)	Fall 2017
RAD 153	Identify the anatomy and function of specific structures of the respiratory system	Student must achieve the required score or higher on the anatomy and function of specific structures of the respiratory system test	Students will score 85% or higher	89.2%	Provide additional review of respiratory anatomy on images using the phantoms in the energized laboratory	Fall 2017
RAD 153	Identify the correct sequence of steps taken to perform a routine radiographic procedure.	Student must achieve the required score or higher on the sequence of steps taken to perform a routine radiographic procedure	Students will score 85% or higher	92%	Review process of steps taken to perform a radiographic procedure through simulation in the x-ray lab	Fall 2017
RAD 205	Define key pathological disease processes and terms, describe various	Student must achieve the required score or higher on the	Students will score 95.3% or higher	95.3%	Emphasize the need to be aware of emerging infectious diseases	Fall 2017

	immune reactions of the body and discuss AIDS and the precautions required when performing examination	introduction to pathology test				
RAD 210	List and describe the factors affecting radiographic density, contrast and demonstrate adaptation of technical variables to changing conditions	Student must achieve the required score or higher on the imaging quality, the photographic factors test	Students will score 85% or higher on the imaging quality, the photographic factors test	89.7%	Demonstrate through Radiographic image critique the factors affecting Density and contrast on radiographic quality.	Fall 2017
RAD 210	Determine how to manipulate factors to enhance recorded detail and minimize distortion	Student must achieve the required score or higher on the factors to enhance recorded detail and distortion test.	Students will score 85% or higher on the test to determine how to enhance recorded detail and distortion.	88.5%	Demonstrate through Radiographic image critique the factors affecting detail and distortion on radiographic quality.	Fall 2017
RAD 230	Performing routine positioning for the upper and lower gastrointestinal tract.	Student must achieve the required score or higher on the body and part positioning for the upper gastrointestinal and lower gastrointestinal tract	Students will score 85% or higher on the positioning of the upper and lower gastrointestinal tract test.	87.5	Review non-routine positioning for upper and lower GI tract in the x-ray lab setting	Fall 2017

Florence-Darlington Technical College

Radiologic Technology Program

Assessment-Systematic Evaluation Plan Report

Program Student Learning Outcome: Professionalism

Radiologic Technology graduates will be able communicate effectively with a variety of patients from culturally diverse backgrounds, in addition to the health care team.

Course Number	Course Student Learning Outcome	Assessment Method	Benchmark	Actual Level of Achievement	Action Plan	Time Interval
RAD 101	Describe and discuss ethics, professionalism and medicolegal considerations in health care/radiologic technology	Student must achieve the required score or higher on the ethics and professionalism test.	Students will score 85% or higher	93.4%	Emphasize the importance of medicolegal issues developing within the health field specifically imaging.	Fall 2017

Florence-Darlington Technical College

Radiologic Technology Program

Assessment-Systematic Evaluation Plan Report

Program Student Learning Outcome: Quality and Safety

Radiologic Technology graduates will be able perform radiologic procedures according to industry quality standards while maintaining optimal radiation safety practices

Course Number	Course Student Learning Outcome	Assessment Method	Benchmark	Actual Level of Achievement	Action Plan	Time Interval
AHS 110	Describe and discuss the proper methods for providing patient care, safety, and uphold infection control protocol in the clinical setting.	Students must achieve the required score or higher on the proper methods for providing patient care, safety and uphold infection control protocol test.	Students will score 85% or higher	90.7%	Concentrate on upholding infection control in the clinical setting	Fall 2017
RAD 101	Define in written and verbal form basic radiation protection & general safety pertaining to the patient and technologist.	Student Must achieve the required score or higher on the radiation protection test.	Students will score 85% or higher	92.7%	Re-evaluate ability to explain the application of the cardinal principles of radiation protection	Fall 2017
RAD 257	Demonstrate clinical performance in proper equipment manipulation section of category/final objective	Student must achieve the required score or higher on the performance section in proper radiographic equipment manipulation section of a category/final competency	Students will score a 2.5 or higher of a 3 point scale	3.0%	Evaluate moving this CSLO to RAD 175 3 rd semester for better observation of student progress	Fall 2017

Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report

Course Name: RAD-101 Introduction to Radiologic Technology
Division: Health Science

Faculty: Dian Davis

Semester(s) Reported: Fall 2016

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Professionalism

Exhibit ethical and professional values that mirror the JRCERT Code of Ethics in a variety of situations.

Course Student Learning Outcome:

Describe and discuss ethics, professionalism and medicolegal considerations in health care/radiologic technology

Analysis of Results:

Strength in student performances:

The cohort test average was 93.4% and there were no failures. The grades ranged from 85 to 100.

Weaknesses in student performances:

This was a multiple choice and short essay answer test- questions included patient scenario questions. When a comparison is made with the fall 2015 cohort who was given the same test- the 2016 cohort test score was actually higher. The fall 2015 cohort scored 92% and fall 2016 cohort scored 93.4%. This test on Ethics and Professionalism includes medicolegal considerations in Radiologic Technology and throughout Healthcare not only for students; but for patients and technologists also.

Recommended Action(s):

Emphasize the importance of medicolegal issues, HIPPA compliance and patient confidentiality issues specifically developing within the changing field of Radiologic Technology.

When Action will be implemented: Fall 2017 - The next time RAD-101 will be taught

Data Comparison:

RAD-101	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark 85%	Benchmark	Benchmark	Benchmark
Ethics and Professionalism test	93.4%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 101
Instructor: Dian Davis
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Quality and Safety: Perform radiographic procedures according to industry standards while maintaining optimal radiation safety practices

Course Student Learning Outcome: Define in written and verbal form basic radiation protection & general safety pertaining to the patient and technologist

Analysis of Results:

Strength in student performances: The exam cohort average was 92.7. The grades ranged from 77 to 100. There were no failures.

Weaknesses in student performances:

This was a multiple choice and short answer test. When a comparison is made with fall 2015 cohort who was given the same test- the 2016 cohort scored 92.7% while the 2015 cohort scored 93%. The basics of radiation protection and safety exam covers important safety principles such as the ALARA principle providing a basic foundation that can be applied throughout the entire Radiologic Technology curriculum, especially clinical classes.

Recommended Actions(s):

Re-evaluate and revise lesson plans to reinforce the importance of the ALARA principle and make adjustments to accommodate the current NCRP policy updates on radiation safety.

When Action will be implemented: _Fall 2017

Data Comparison:

RAD 101	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark 85%	Benchmark	Benchmark	Benchmark
Radiation safety Exam	91%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: AHS 110
Instructor Yancy wells
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking: Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome: Describe and discuss the proper method(s) for dealing with medical emergencies in an imaging department

Analysis of Results:

Strength in student performances: The cohort average was 86.4 and there was no failing grade.

Weaknesses in student performances: This was a multiple choice, matching, true/false fill in the blank test. Questions are level one and level two type questions. When a comparison is made with the fall 2015 cohort who was given the same test – the 2016 cohort test average was higher. Fall 2015 cohort scored 86.9% and the Fall 2016 cohort scored 91%. The medical emergencies test is a fundamental test of information that is applied across the curriculum particularly in clinical.

Recommended Action(s):

Medical emergencies are a constant in a medical imaging facility requiring students to have a thorough understanding of how to deal with patients experiencing these conditions. How to deal with patients experiencing, shock particularly anaphylactic shock that occurs more often in an imaging department needs to be emphasized with more specific questions to measure student understanding.

When Action will be implemented: Fall 2017

Data Comparison:

AHS 110	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
Medical Emergencies Exam	86.4%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: AHS 110
Instructor: Yancy wells
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Quality and Safety: Perform radiologic procedures according to industry quality standards while maintaining optimal radiation safety practices

Course Student Learning Outcome: Describe and discuss the proper methods for providing patient care, safety, and uphold infection control protocol in the clinical setting.

Analysis of Results:

Strength in student performances: The cohort average was 91 and there was only one failure with a grade of 75.

Weaknesses in student performances: This was a multiple choice, matching, fill-in the blank test – question level one and two questions. When a comparison is made with the fall 2015 cohort who was given the same test – the 2016 cohort score was lower, Fall 2015 cohort scored 96 and the Fall 2016 scored 91. The Patient Safety and Infection Control content is foundational and applied across the curriculum particularly in clinical.

Recommended Action(s): Concentrate on upholding infection control in the clinical setting

When Action will be implemented: Patient safety and infection control in the clinical setting is critical. Will develop better questions to help integrate patient safety and infection control.

Fall 2017

Data Comparison:

AHS 110	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
Patient Safety and Infection Control Test	85%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 153
Instructor: Yancy Wells
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome: Identify the anatomy and function of specific structures of the respiratory system

Analysis of Results:

Strength in student performances: This was a multiple choice, matching, true/false fill in the blank test. Questions are level one and level two type questions. When a comparison is made with the fall 2015 cohort who was given the same test – the 2016 cohort test average was lower. Fall 2015 cohort scored 91.6% and the Fall 2016 cohort scored 89.2%. The Respiratory exam on function and anatomy is a fundamental exam of information that is applied across the curriculum particularly in clinical.

Weaknesses in student performances: Radiographic imaging of the respiratory system is the most common imaging exam performed in imaging departments. Students are demonstrating the ability to name respiratory anatomy on diagrams. They have difficulty in transferring that knowledge to identify respiratory anatomy on radiographic images.

Recommended Action(s): Provide additional review of respiratory anatomy on images using the phantoms in the energized laboratory

When Action will be implemented: Fall 2017

Data Comparison:

RAD 153	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
	Students will score 85% or higher			
	89.2			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 153
Instructor: Yancy wells
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking: Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome: Identify the correct sequence of steps taken to perform a routine radiographic procedure.

Analysis of Results:

Strength in student performances: This was a multiple choice, matching, true/false fill in the blank test. Questions are level one and level two type questions. When a comparison is made with the fall 2015 cohort who was given the same test – the 2016 cohort test average was lower. Fall 2015 cohort scored 91.6% and the Fall 2016 cohort scored 89.2%. The Respiratory exam on positioning and anatomy is a fundamental exam of information that is applied across the curriculum particularly in clinical.

Weaknesses in student performances: Understanding of the correct sequence off steps taken to perform a routine radiographic procedure is essential for performing all radiographic imaging procedure. The decrease in the score from the 2016 cohort compared to the 2015 cohort demonstrates a need to evaluate questions related to positioning and application.

Recommended Action(s): Review process of steps taken to perform a radiographic procedure through simulation in the energized x-ray lab.

When Action will be implemented: Fall 2017

Data Comparison:

RAD 153	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
	students will score 85% or higher			
	89.2			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report

Course Name: RAD-205 Radiographic Pathology

Date:

Faculty: Dian Davis

Division: Health Science

Semester(s) Reported: Fall 2016

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking

Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome:

Define key pathological disease processes and terms, describe various immune reactions of the body and discuss AIDS and the precautions required when performing examinations.

Analysis of Results:

Strength in student performances:

The cohort test average was 95.3% and there only one (1) failure. The grades ranged from 74 to 100.

Weaknesses in student performances:

This was a multiple choice and matching test. When a comparison is made with fall 2015 cohort who was given the same test- the 2016 cohort score was three (3) points higher. The 2015 cohort score was 92.3% and the 2016 cohort was 95.3%. This test Radiographic Pathology is an introductory test that covers foundational material that is used in both Didactic positioning classes and in Clinical settings. Minor weaknesses were noticed on the matching portion of this test which includes medical terminology prefixes and suffixes.

Recommended Action(s):

Review basic medical terminology, revise lesson plans and emphasize the need to be aware of emerging infectious diseases. Update and change Introduction to Pathology test to include these disease processes.

When Action will be implemented:

Fall 2017 - the next time RAD-205 will be taught

Data Comparison:

	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark 85%	Benchmark	Benchmark	Benchmark
Introduction to Pathology test	95.3%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course Name: RAD-210 Principles of Imaging III
Faculty: Dian Davis
Semester(s) Reported: Fall 2016

Date:
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking

Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome:

Students will determine how to manipulate factors to enhance recorded detail and minimize distortion.

Analysis of Results:

Strength in student performances:

The cohort test average was 88.5% and there were two (2) failing scores- 73.5 and 75. The grade range on the Recorded Detail and Distortion test was 73.5 to 98.5.

Weaknesses in student performances:

This test was a multiple choice, fill-in the blank, and mathematical calculations test. When a comparison is made with the 2015 cohort who was given the same type of test- the 2016 cohort score was one (1) point lower than the 2015 cohort average score of 89.5%. The 2016 cohort score was 88.5 %. The area of difficulty on the 2016 cohort appeared in the mathematical calculations portion of the test, specifically in the word problems.

Recommended Action(s):

Revise lesson plans to include review of basic algebraic word problems. Give hands-on demonstrations through radiographic image critique and the factors affecting recorded detail and distortion on overall radiographic quality. Schedule more practice on mathematical equations used in word problems

When Action will be implemented:

Fall 2017 - the next time RAD-210 will be taught

Data Comparison:

RAD-210	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark 85%	Benchmark	Benchmark	Benchmark
Recorded Detail and Distortion test	88.5%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course Name: RAD-210

Date:

Faculty: Dian Davis

Division: Health Science

Semester(s) Reported: Fall 2016

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking

Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome:

Students will determine how to manipulate factors affecting radiographic density and contrast.

Analysis of Results:

Strength in student performances:

The cohort test average was 89.7 and there were two (2) failures- both with a score of 75. The grade range on the Image Quality: Photographic Factors test was 75 to 100.

Weaknesses in student performances:

This test was a multiple choice, fill-in the blank, and mathematical calculations test. When a comparison is made with the 2015 cohort who was given the same type of test- the 2016 cohort score was slightly lower than the 2015 cohort average of 90.3%. The 2016 cohort score was 89.7%. The area of difficulty on the 2016 cohort appeared in the mathematical calculations portion of the test, specifically in the word problems.

Recommended Action(s):

Revise lesson plans to include review of basic algebraic word problems. Give hands- on demonstration through radiographic image critique and the factors affecting density and contrast on overall radiographic quality. Schedule more practice on mathematical equations used in word problems.

When Action will be implemented:

Fall 2017 - the next time RAD-210 will be taught

Data Comparison:

RAD-210	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark 85%	Benchmark	Benchmark	Benchmark
Image Quality: Photographic Factors test	89.7&			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 230
Instructor: Yancy wells
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Critical Thinking: Integrate knowledge to plan, implement, evaluate, and document radiographs to address individual patient needs.

Course Student Learning Outcome: Describe body and part positioning for the lower gastrointestinal tract

Analysis of Results:

Strength in student performances: The cohort average was 85.2 and there were only two failing grades 72.4 and 74.3.

Weaknesses in student performances: This was a multiple choice fill-in the blank exam. When a comparison is made with Fall 2015 cohort who was given the same exam – the 2016 cohort was lower. Fall 2015 cohort scored 86.7% and the Fall 2016 cohort scored 85.2%. The lower gastrointestinal tract exam content is foundational for students learning the method for performing radiographic images of this area of the body.

Making adjustment for non-routine patients

Recommended Action(s): Review positioning for routine and non-routine procedures for lower GI tract in the energized x-ray lab setting.

When Action will be implemented: Fall 2017

Data Comparison:

	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
Student must achieve the required score or higher on the body and part positioning for the lower gastrointestinal tract	Students will score 85% or higher on the positioning of lower gastrointestinal tract test.			
	85.2%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 230
Instructor: Yancy Wells
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Communication: Communicate effectively with a variety of patients from culturally diverse backgrounds, in addition to the health care team.

Course Student Learning Outcome: Write a research paper or develop a project on a specific subject in the field of radiology

Analysis of Results:

Strength in student performances: Ability to research topic

Weaknesses in student performances: Writing skills

Recommended Action(s): Provide access to proper methods of researching and developing a paper or project.

When Action will be implemented: Fall 2017

Data Comparison:

RAD 230	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
Student must achieve the required score or higher on the written research paper of project	Students will score 85% or higher on research paper rubric			
	90.7%			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 257
Instructor: Herbert Reynolds
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Quality and Safety: Perform radiologic procedures according to industry quality standards while maintaining optimal radiation safety practices

Course Student Learning Outcome: Demonstrate clinical performance in proper equipment manipulation section of Category/final objective

Analysis of Results:

Strength in student performances: The Category/Final Competency Evaluation is the instrument used to evaluate student performance in the clinical setting. Under performance question 6 Equipment manipulation the 2015 & 2016 cohort scores were the same.

Weaknesses in student performances: The students that are being measured in RAD 257 are senior students who have developed the skill necessary for utilizing basic imaging equipment.

Recommended Action(s): Evaluate moving this CSLO to RAD 175 3rd semester for better observation of student Progress. Review the use of different types of radiographic equipment.

When Action will be implemented: Fall 2017

Data Comparison:

RAD 257	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
	Students will score a 2.5 or higher of a 3 point scale			
	3.0			

Impact of Changes Implemented As a Result of Previous Assessment Cycle:

**Florence-Darlington Technical College
Assessment-Systematic Evaluation Plan Detailed Report**

Course ID/Name: RAD 257
Instructor: Herbert Reynolds
Semester(s) Reported: Fall 2016

Date: 11-18-2016
Division: Health Science

Course Category: Traditional Hybrid/Blended Online Web Facilitated Dual Enrollment DL

Program Student Learning Outcome: Communication: Communicate effectively with a variety of patients from culturally diverse backgrounds, in addition to the health care team.

Course Student Learning Outcome: Adapts approach to communication based upon patient and family unique needs and requirements.

Analysis of Results:

Strength in student performances: The Clinical Staff Competency Evaluation is the instrument used to evaluate student performance in the clinical setting. Under performance question 2 Patient care & communication the 2016 cohort scored higher than cohort 2015. The score for Cohort 2016 was 3.6 and the score for cohort 2015 was 3.5.

Weaknesses in student performances: Students are consistently demonstrating the ability to communicate with average patients. There is a need for reviewing the methods available for communicating with patients who have special needs. Patients who speak another language and hearing impaired.

Recommended Action(s): Review methods available for communicating with patients who have special needs. Power point presentation on equipment for communicating with the hearing impaired. Utilization of translators in the clinical setting.

When Action will be implemented: Fall 2017

Data Comparison:

RAD 257	2016 Fall-	20__	20__	20__
Measurement Instrument	Benchmark	Benchmark	Benchmark	Benchmark
Clinical Staff Competency Evaluation	Students will score 3 or higher out of a 4 point scale			
	3.6			

Impact of Changes Implemented As a Result of Previous Assessment Cycle: