

**Hagerstown Community College
Radiography Program Outcomes Curriculum Map**

Program Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome	Course Outcome
	RAD 101 Radiography I	RAD 102 Radiography II	RAD 103 Radiographic Positioning I	RAD 104 Radiographic Positioning II	RAD 105 Radiographic Positioning III	RAD 106 Clinical Technique I	RAD 108 Clinical Technique II	RAD 109 Patient Care for Radiographers	RAD 200 Clinical Practicum	RAD 201 Medical Imaging I	RAD 202 Medical Imaging II	RAD 205 Clinical Technique III	RAD 211 Clinical Technique IV	RAD 212 Cross-Sectional Anatomy	RAD 218 Principles Of CT Imaging	PHY 106 Radiological Physics Theory	BIO 202 Radiation Biology	Graduate/ Employer Survey
1. Provide appropriate patient care in the course of radiographic procedures with respect for diverse cultures, values and beliefs.			Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.	Describe the patient care requirements for venipuncture with respect for Maslow's hierarchy, patient culture, values and belief systems. Perform basic patient care activities in the lab setting with respect for Maslow's hierarchy, patient culture, values and belief systems	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.			Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships.		State the responsibility, role and goals of the computed tomography technologist in the following aspects... a. using human principles of understanding b. communication and caring to make the computed tomography procedure a positive experience			
2. Competently perform routine imaging procedures.		Apply knowledge of equipment to facilitate and enhance positioning skills.	Demonstrate basic radiographic positions pertaining to the appendicular skeleton and chest and abdomen.	Demonstrate basic radiographic positions pertaining to the axial skeleton	Identify anatomy, pathology, positions, and anomalies pertaining to the organ systems of the body as they appear on a radiograph.	Organizes optimally the radiographic facilities as required by the specific procedures	Organizes optimally the radiographic facilities as required by the specific procedures	Demonstrate competent performance of basic patient care activities and operation of medical equipment in the lab.	Organizes optimally the radiographic facilities as required by the specific procedures	Monitor and determine proper equipment performance	Demonstrate knowledge of special imaging systems.	Organizes optimally the radiographic facilities as required by the specific procedures	Organizes optimally the radiographic facilities as required by the specific procedures		...c. positioning of the patient for computed tomography d. describe the process of computed tomography image production e. describe the process of the required computer capabilities for image processing f. apply the basic concepts in performing a computed tomography	Apply knowledge of equipment to facilitate and enhance technical skills.		

															procedure			
3. Utilize appropriate radiation protection and standard precautions.		Demonstrate safe operation of the radiographic unit and appropriate use of radiographic accessories.				Apply proper radiation protection methods as indicated by radiographic examination procedures according to Federal Government regulations	Apply appropriate radiation protection and standard precautions when using special imaging systems.	Demonstrate safe practice standards for venipuncture.	Apply appropriate radiation protection and standard precautions when using special imaging systems.	State the quality performance guidelines for radiation equipment and data analysis.	Apply appropriate radiation protection and standard precautions when using special imaging systems.	Apply appropriate radiation protection and standard precautions when using special imaging systems.	Apply appropriate radiation protection and standard precautions when using special imaging systems.		... g. produce the highest quality images consistently at the lowest possible dose h. identify the non-ionic and iodinated contrast media, their chemical and physiological properties, and evaluate the risks.	Identify the practice standards for radiation protection	Identify the practice standards for radiation protection	
4. Critique images to assure highest quality.			Evaluate radiographic image quality on radiographs.	Evaluate radiographic image quality on radiographs	Evaluate radiographic image quality on radiographs	Evaluate radiographic image quality on radiographs	Evaluate radiographic image quality on radiographs		Evaluate radiographic image quality on radiographs			Evaluate radiographic image quality on radiographs	Evaluate radiographic image quality on radiographs	Given a cross-sectional image, correctly identify anatomy demonstrated and the image plane for different anatomical sections.	... g. produce the highest quality images consistently at the lowest possible dose, utilizing appropriate quality assurance/quality control in computed tomography and identify imaging artifacts and determine the technical adjustment required for correction.			
5. Communicate effectively with staff and patients.	Demonstrate effective professional communication in the classroom.		Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships	Demonstrate effective professional communication in the simulation of venipuncture.	Utilize the appropriate rules of conduct concerning communication and interpersonal relationships			Communicate effectively with professionals in the specialized imaging areas	Communicate effectively with professionals in the specialized imaging areas					
6. Be able to solve age-			Identify anatomy, pathology,	Demonstrate basic radiographic	Identify anatomy, pathology,		Describe adjustments	Describe adjustments		Formulate techniques	Recognize the		Employ adjustments				Modify the	

specific, disease-specific and non-routine imaging situations.			positions, and anomalies pertaining to the chest, abdomen, and appendicular osseous system as they appear on a diagram or actual radiograph.	positions pertaining to the axial skeleton.	positions, anomalies pertaining to skull and facial bones and anomalies pertaining to pediatric and geriatric patients as they appear on a radiograph.		to the radiographic procedure to accommodate patient age, and impairments and imaging situations.	to the venipuncture procedure to accommodate patient age, and impairments and imaging situations.		for adjustments involving age, patient size, pathology, equipment capabilities.	strengths of the specialized imaging areas in diagnosis.		to the radiographic procedure to accommodate patient age, and impairments and imaging situations.				radiation exposure to decrease specific disease processes.	
7. Make critical decisions appropriate for the medical imager.	Recognize appropriate standard of care practices.	Apply the correct adjustment for technical changes.	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Perform satisfactorily in the various phases of diagnostic radiography utilizing the appropriate principles of radiographic positioning	Recognize ethical and legal principles basic to the radiographic process.	Recognize ethical and legal principles basic to the radiographic process.	Recognize ethical and legal principles basic to the venipuncture process.	Recognize ethical and legal principles basic to the radiographic process.	Determine the corrective action needed to successfully repeat an inadequate image.	Recognize the ethical and legal principles basic the specialized imaging areas.	Recognize ethical and legal principles basic to the radiographic process.	Recognize ethical and legal principles basic to the radiographic process.		... g. produce the highest quality images consistently at the lowest possible dose h. identify the non-ionic and iodinated contrast media, their chemical and physiological properties, and evaluate the risks		Apply the correct adjustment for technical changes.	
8. Perform as an effective team member.						Identify the responsibilities and expectations of the radiographer	Identify the responsibilities and expectations of the radiographer	Identify the responsibilities and expectations of being a professional team player	Identify the responsibilities and expectations of the radiographer			Identify the responsibilities and expectations of the radiographer	Identify the responsibilities and expectations of the radiographer					
9. Practice within the ethical framework of the profession.	Identify the ethical requirements of the ASRT and ARRT Codes of Ethics.					Identify the ethical and legal principles of radiographic procedures.	Identify the ethical and legal principles of radiographic procedures.	Identify the ethical and legal principles of venipuncture.	Identify the ethical and legal principles of radiographic procedures.			Identify the ethical and legal principles of radiographic procedures.	Identify the ethical and legal principles of radiographic procedures.					
10. Document participation in continuing education activities.						Attend professional continuing education seminars.												
11. Be employed by healthcare facilities within the community.													Identify the employment expectations of the health care facilities in the community.					Employer Survey Identify the employment expectations of the health care facilities in the community.
12. Meet the					Apply								Recognize the					Employer Survey

imaging needs of the community.					knowledge of patient care, routine imaging procedures, radiation protection and equipment.							community's expectations of a health care professional.					Apply knowledge of patient care, routine imaging procedures, radiation protection and equipment.
13. Participate in continuing education activities to stay current in their profession.																	Graduate Survey Plan for lifelong learning activities to promote personal and professional growth.