Radiography Education Curriculum Map

Professional curriculum		Program course(s)
	Basic Principles of computed tomography	
Computed Tomography Generations		Radiography IV
Components, Operations and Processes		Radiography IV
Radiation Protection		Radiography IV
	Clinical Practice	
Clinical Practice		Rad Clinical 1, 2, 3, 4 Intermediate and Senior Student Seminar
Procedural Performance		Rad Clinical 1, 2, 3, 4 Intermediate and Senior Student Seminar
Clinical competency		Rad Clinical 1, 2, 3, 4 Intermediate and Senior Student Seminar
	Digital Image acquisition and display	
Basic Principles of digital radiography		Advanced Imaging Equipment and Patient care
Image Acquisition		Advanced Imaging Equipment and Patient care
Image Acquisition Errors		Advanced Imaging Equipment and Patient care
Software (Default) Image Processing		Advanced Imaging Equipment and Patient care
Fundamental Principles of Exposures		Advanced Imaging Equipment and Patient care
Image Evaluation		Advanced Imaging Equipment and Patient care

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Quality Assurance and Maintenance issues		Advanced Imaging Equipment and Patient care
Display	**Ethics and Law in the Radiologic Sciences**	Introduction to Radiography and Advanced Imaging Equipment and Patient care
Ethics and Ethical Behavior		Introduction to Radiography and Advanced Imaging Equipment and Patient care
Ethical Issues in Health Care		Introduction to Radiography and Advanced Imaging Equipment and Patient care
Legal Issues		Introduction to Radiography and Advanced Imaging Equipment and Patient care
Patient Consent		Introduction to Radiography and Advanced Imaging Equipment and Patient care
	Fundamentals of Radiologic Science and Health Care	
The Health Science Professions		Introduction to Radiography
The Health Care Environment		Introduction to Radiography
Hospital Organization		Introduction to Radiography
Radiology Organization		Introduction to Radiography
Professional Credentialing		Introduction to Radiography
Professional Organizations		Introduction to Radiography
Professional Development and		Introduction to Radiography

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Advancement		
	Human Structure and Function	
Anatomical Nomenclature		Anatomy and Physiology 1
Chemical Composition		Anatomy and Physiology 1
Cell Structure and Genetic Control		Anatomy and Physiology 1
Metabolism		Anatomy and Physiology 1
Tissues		Anatomy and Physiology 1
Skeletal system		Anatomy and Physiology 1
Muscular system		Anatomy and Physiology 1
Nervous system		Anatomy and Physiology 2
Sensory System		Anatomy and Physiology 2
Endocrine System		Anatomy and Physiology 2
Digestive system		Anatomy and Physiology 2
Cardiovascular System		Anatomy and Physiology 1
Lymphatic System and Immunity		Anatomy and Physiology 1
Respiratory System		Anatomy and Physiology 1
Urinary System		Anatomy and Physiology 2
Reproductive System		Anatomy and Physiology 2
Sectional Anatomy		Radiography IV
	Image Analysis	
Imaging Standards		Image Production and Evaluation and Clinical Education
Image Appearance characteristics		Image Production and Evaluation and Clinical Education
Procedural factors		Image Production and Evaluation and Clinical Education
Corrective Action		Image Production and Evaluation and Clinical Education
	Imaging Equipment	

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X-ray Circuit		Principles of Imaging Equipment
Radiographic Equipment		Principles of Imaging Equipment
Diagnostic x-ray tubes		Principles of Imaging Equipment
Image Intensified Fluoroscopy		Principles of Imaging Equipment
Linear Tomography		Principles of Imaging Equipment
Quality Management		
	Medical terminology	
The Word Building Process		Radiography 1, 2 and 3
Medical Abbreviations and Symbols		Radiography 1, 2 and 3
Radiologic Technology Procedures and Terminology		Radiography 1, 2 and 3
Understanding Orders, requests, and Diagnostic Reports		Radiography 1, 2 and 3
	Patient Care in Radiologic Sciences	
Radiographer and Health Care Team		Introduction to Radiography
Attitudes and Communication in Patient care		Introduction to Radiography
Patient/Radiographer Interactions		Introduction to Radiography
Safety and Transfer Positioning		Introduction to Radiography
Evaluating Physical Needs		Introduction to Radiography
Infection control		Introduction to Radiography Advanced patient Care
Medical Emergencies		Introduction to Radiography Advanced patient Care
Unique Situations and Trauma		Introduction to Radiography Advanced patient Care
Contrast studies		Introduction to Radiography

Radiography Education Curriculum Map

		Advanced patient Care
Tubes, Catheters, Lines, and collection Devices		Introduction to Radiography Advanced patient Care
Mobile and Surgical radiography		Radiography IV
	Pharmacology and Drug Classification	
Drug Nomenclature		Introduction to Radiography Advanced patient Care
Methods of Drug Classification		Introduction to Radiography Advanced patient Care
General Pharmacologic Principles		Introduction to Radiography Advanced patient Care
Five Rights of Drug Safety		Introduction to Radiography Advanced patient Care
Drug categories of Relevance to Radiography (Side effects, Uses and Impacts on Medical Imaging)		Introduction to Radiography Advanced patient Care
Classification of Contrast Agents		Introduction to Radiography Advanced patient Care
Routes of Drug Administration		Introduction to Radiography Advanced patient Care
Intravenous Drug Therapy		Introduction to Radiography Advanced patient Care
Current Practice Status		Introduction to Radiography Advanced patient Care
Informed consent		Introduction to Radiography Advanced patient Care
	Radiation Biology	
Introduction		Radiography IV
Molecular bonds		Radiography IV
Review of Cell biology		Radiography IV

Radiography Education Curriculum Map

Types of ionizing radiation		Radiography IV
Sources of medical radiation Exposure		Radiography IV
Biophysical Events		Radiography IV
Radiation Effects		Radiography IV
Radiosensitivity and Response		Radiography IV
	Radiation Production and Characteristics	
Structure of the atom		Principles of Imaging Equipment
Nature of Radiation		Principles of Imaging Equipment
x-ray production		Principles of Imaging Equipment
Interactions of Photons with Matter		Principles of Imaging Equipment
	Radiation Protection	
Introduction		Radiography IV
Justification for radiation protection		Radiography IV
Potential biologic damage potential of ionizing radiation		Radiography IV
Objectives of a radiation protection program		Radiography IV
Sources of radiation		Radiography IV
Legal and ethical responsibilities		Radiography IV
Units, Detection and Measurement		Radiography IV
Surveys, Regulatory/Advisory Agencies and Regulations		Radiography IV
Personnel Monitoring		Radiography IV
Application		Radiography IV
Patient Protection		Radiography IV
	Radiographic Pathology	

Radiography Education Curriculum Map

Definitions/Terminology		Pathology
Classifications (Definition, Examples, Sites, Complications, Prognosis)		Pathology
Causes of Disease (Process, Examples)		Pathology
Radiologic Pathology(definitions, etiology, Examples, Sites, Complications, Prognosis, Radiographic Appearance, Procedural and Technique considerations, Appropriate Imaging Modality)		Pathology
	Radiographic Procedures	
Standard Terminology for Positioning and Projection		Radiography 1,2 and 3
General Considerations		Radiography 1,2 and 3
Patient considerations		Radiography 1,2 and 3
	Film Screen Acquisition and Processing	
Image Appearance Standards		Image Production and Evaluation
Optical Density		Image Production and Evaluation
Contrast		Image Production and Evaluation
Recorded Detail/Spatial Resolution		Image Production and Evaluation
Distortion		Image Production and Evaluation
Exposure Latitude		Image Production and Evaluation
Beam-limiting Devices		Image Production and Evaluation
Beam Filtration		Image Production and Evaluation
Scattered and Secondary Radiation		Image Production and Evaluation
Control of Remnant Beam/Exit		Image Production and Evaluation

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Beam		
Exposure Factor formulation		Image Production and Evaluation
Exposure Factors		Image Production and Evaluation
Darkroom/Storage Environment		Image Production and Evaluation
Characteristics of Imaging Receptors		Image Production and Evaluation
Image Receptor Holders and Intensifying Screens		Image Production and Evaluation
Automatic Processing		Image Production and Evaluation
Artifacts		Image Production and Evaluation
Silver recovery		Image Production and Evaluation

Educational Programs in radiography are required to incorporate mathematical/logical reasoning and written/oral communication as general education elements in their curricula. There must be a minimum of 15 credit hours of general education coursework.
Each program is required to submit information regarding the courses.

Required Post-secondary General Education	Credit Hour	Course Number	Course Title
Mathematical/Logical Reasoning (required)			Statistics
Written/oral Communication(required)			English Composition I and 2
Total Hours for Required Post-secondary General Education			30

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In the spaces below, list the additional post -secondary general education coursework students are required to complete that meets/exceeds the 15 hours.

Category (see below)	Course Number	Course Title	Credit Hours
Science	109	Anatomy I	4
Science	209	Anatomy I	4
Humanities elective			3
Humanities elective			3
Social Science elective			3
Total Hours for Additional	Post-secondary	General Education Courses	17