Radiologic Technology
Master Plan of Instruction

- Demonstrate a functional knowledge of medical terminology required in radiologic science.
- Convey an understanding of the ethics and laws that impact Radiologic Sciences at both the state and federal levels.
- Demonstrate introductory knowledge of radiologic science and the health care system.
- Demonstrate knowledge of and perform patient care procedures required in radiologic sciences.
- Demonstrate an understanding of pharmacology and venipuncture procedures as it relates to radiologic science.
- Demonstrate proficiency in the skills, techniques and knowledge required for image analysis.
- Demonstrate proficiency in the skills, techniques and knowledge required to operate imaging equipment.
- Convey an understanding of the principles of imaging and the various factors that contribute to accuracy including x-ray production, image formation, and factors related to radiographic quality.
- Demonstrate an understanding of the structure and function of the human body with a focus on the muscular, endocrine, respiratory, urinary and appendicular skeletal systems.
- Demonstrate proficiency in the skills, techniques and knowledge required to perform accurate radiographic procedures.
- Demonstrate the proficiency in the skills and knowledge required of clinical practice.
- Convey an understanding of the principles of imaging and the various factors that contribute to accuracy including image acquisition and processing, scatter radiation control, and image evaluation.
- Demonstrate an understanding of the concepts and equipment required of digital image acquisition and display.
- Demonstrate an understanding of the structure and function of the human body with a focus on the axial skeletal system.
- Demonstrate an understanding of the structure and function of the human body with a focus on the circulatory/cardiovascular, digestive and reproductive systems.
- Demonstrate proficiency in the skills, techniques and knowledge required to perform accurate fluoroscopic procedures.
- Demonstrate an understanding of the structure and function of the human body with a focus on the nervous system.
- Demonstrate introductory knowledge of computed tomography.
- Demonstrate appropriate venipuncture technique.
- Demonstrate an understanding of radiographic pathology.
• Demonstrate an understanding of how radiation is produced and the characteristics of different classifications of radiation.
• Demonstrate an understanding of the structure and function of the human body including the immune system and chemical composition of the body.
• Demonstrate an understanding of the integral aspects of radiation biology required of a radiographer.
• Convey the importance for proper radiation protection and the precautions radiographers should take to prevent unnecessary exposure to themselves and patients.