Philosophy

Radiological Sciences is an art and science program based upon principles and techniques which are utilized by members of the profession in meeting the needs of the patients while carrying out specific responsibilities within the multicultural medical environment.

Learning is a continuous process of assimilation of knowledge and progressive development of the student toward pre-established goals. Learning is dependent upon the readiness, motivation and active participation of the student, the student's self-determined goals and progress toward those goals.

The Penn State New Kensington Radiological Sciences program comprises three distinct but inter-related components. First, a general education background is necessary for professionals to communicate effectively and intelligently. Second, Radiological Sciences is focused course work that develops technical knowledge and critical thinking skills and promotes professional ethics. Third a clinical component prepares the student through supervised competency based experiences to function as a skilled radiographer.

Mission

Our mission is to develop competent professional radiographers whose expertise will meet the needs of the community they serve by providing high quality healthcare in a professional, compassionate and responsible manner.

Goals & Student Learning Outcomes

Graduates of the program will:

Goal: The student will be clinically competent.

Student Learning Outcomes:
The student will recognize the need for proper radiation safety practices and provide proper radiation protection.
The student will produce diagnostic quality images.

Goal: The student will effectively communicate in the healthcare environment.

Student Learning Outcomes:
The student will demonstrate effective written communication skills.
The student will demonstrate effective oral communication skills.

Goal: The student will think critically and apply problem solving skills in the healthcare environment.

Student Learning Outcomes:
The student will manipulate technical factors to produce diagnostic images.
The student will modify procedures to meet patient needs.

Programmatic Learning Outcomes

Upon completion of the program, the student will:

1. Apply knowledge of anatomy, physiology, position and radiographic technique to accurately demonstrate anatomical structures on radiographs or other image receptors.
2. Determine exposure factors to achieve optimum radiographic quality with minimum radiation exposure to the patient.
3. Evaluate radiographic images for appropriate positioning and image quality.
4. Apply principles of radiation protection to the patient, self and others.
5. Provide care, comfort and attend to the needs of the patient.
6. Recognize emergency patient conditions and initiate life-saving first aid and basic life support procedures.
7. Detect equipment malfunctions, report same to proper authority and know the safe limits of equipment operation.
8. Participate in radiologic quality assurance programs.
9. Communicate effectively in the medical environment and function as a team member in a radiology department.
10. Participate in professional activities and continuing education, demonstrate an understanding of advanced imaging modalities and utilize insights gained in liberal arts and science courses to promote continued professional and personal growth.

The Joint Review Committee on Education in Radiologic Technology (JRCERT) will post five-year average credentialing examination pass rate, five-year average job placement rate and annual program completion rate at https://portal.jrcertaccreditation.org/accredited-educational-programs/search

Revised: DM/MC:01-10-2014, DM:3-2015,MC/DM:10-20/DM:1-22