Medical Imaging Technology

Goal 1: **Demonstrate knowledge and skills needed for entry-level advanced imaging modalities**

Component 1:Students will demonstrate understanding of advanced modality imaging knowledge.

Component 2: Students will demonstrate organizational skills in an advanced modality imaging.

Goal 2: Demonstrate ethics and professionalism.

Component 1:Students will identify the key elements and approaches to ethical situations and issues. (Meets Ethics & Civic Engagement Gen Ed Outcome 1)

Component 2: Students will identify the benefits of making informed judgements with regard to individual and group conduct.* (Meets Ethics & Civic Engagement Gen Ed Outcome 2)

Component 3: Students will demonstrate leadership by participating in professional organizations, campus and / or community service opportunities

Component 4: Students will identify the benefits of civic engagement *(Meets Ethics & Civic Engagement Gen Ed Outcome 3)

Goal 3: Demonstrate critical thinking and problem solving in imaging and leadership

Component 1:Students will recognize issues that have alternative interpretations* (Meets Critical Thinking Gen Ed Outcome 1)

Component 2: Students will compare the perspectives of others to their own by demonstrating didactic principles learned versus the clinical experience.* (Meets Critical Thinking Gen Ed Outcome 2)

Component 3: Students will assess the quality of supporting evidence by submitting case studies.* (Meets Critical Thinking Gen Ed Outcome 3)

Goal 4: Demonstrate effective communication as a healthcare leader in radiologic technology

Component 1: Students will utilize professional interpersonal skills to communicate with patients, peers, physicians, and other vital members of the healthcare team.

Component 2: Students will assess the implications and consequences that result from proposed conclusions* (Meets Critical Thinking Gen Ed Outcome 4)

Radiography

Goals

- To provide the regional (north central Indiana) medical community with entry-level radiographers who display professionalism
- To provide students opportunities that will allow them to communicate effectively
- To provide students opportunities that will allow them to think critically and solve problems

- To provide educational experiences that produce clinically competent individuals prepared for employment as entry-level radiographers

Outcomes

1. Students will demonstrate knowledge and practice radiation protection by applying ALARA principles and practices. Relates to Goal # 1, 3 and 4
2. Students will demonstrate professional and ethical behaviors according to the ARRT (American R of Radiologic Technologists) Code of Ethics while in the clinical education setting. Relates to program goal #'s 1 and 2.
3. Student will be able to perform basic patient care skills and assessments. Relates to program goal # 1
4. Students will be able to communicate effectively and apply interpersonal skills with patients, peers, physicians, and other vital members of the healthcare team. Relates to program goals #'s 1, 3 and 4.
5. Students will operate complex radiographic equipment to produce quality images. Relates to program goals # 1, 2 and 3.
6. Student will demonstrate positioning skills in the clinical area which allows the student to work in routine, emergency, and trauma situations while completing the procedure with speed and accuracy. Relates to program goals #'s 1 and 3.
7. Students will develop organizational and critical thinking skills to increase efficiency in the performance of radiographic examinations. Relates to program goal #'s 3 and 4.
8. Students will be able to assess the patient's condition, interpret medical data, and assist the radiologist/ physician by communicating data and assisting with procedures. Relates to program goals #'s 2, 3 and 4.
9. Students will select appropriate technical factors to assure quality images and patient care. Relates to goal #'s 1 and 4.
10. Students will demonstrate desires life-long learning through completion of a portfolio and accumulates of professional points. This relates to goal #1.

The Student Learning Outcomes can be broken down into Cognitive, Behavioral and Affective Outcomes. At the end of the Radiography Program students should be able demonstrate:

I. **Cognitive Domain**: students will be able to:
A. Demonstrate critical thinking skills by describing patient care and positioning for non-trauma and trauma patients as well as population diversities.
B. Demonstrate evidence of Radiation Safety and know effects of excessive radiation doses.
C. Manipulate exposure techniques and radiographic equipment.
D. Demonstrate knowledge of medical terminology as related to radiology
E. Identify human anatomy and pathology related to radiographer.

II. **Behavior Domain**: students swill be able to:
A. Correctly Position Patients for routine examinations
B. Communicate data and patient information to help in diagnosis
C. Deliver Patient care to include assist a patient and take vital signs
D. Evaluation of Radiographs
E. Process radiographic images

III. **Affective Domain**: students will be able to:
A. Abide by the ASRT and ARRT Code of Ethics
B. Demonstration of lifelong learning desires through completion of a portfolio
C. Demonstrate compliance with program dress code
D. Demonstrate comprehension of radiologic procedures