

COURSE DESCRIPTIONS
Christ Hospital School of Radiography

Class of _____

Created 3/17/2011

The curriculum for the 24 month program is as follows:

Didactic and Clinical Courses

Pre/Co-Requisites

RAD 101 Radiography I

None

Course Description:

Content is designed to provide an overview of the general principles of patient care, ethics and medico-legal standards. Principles of mathematical formulas, prime factors and electromagnetic energy are introduced. Equipment operation introduces the use of grids, screens, darkroom and digital imaging processing, and all components involved in image production. The foundation of radiation protection and safety standards in radiographic imaging is emphasized. History of radiography, career opportunities and human diversity and its relationship in the health care system is covered. Learning the basics of medical terminology for use in the health care environment is given.

RAD 104 Radiographic Imaging I/Lab

RAD 101

Course Description:

In this first course, anatomy and positioning terminology and their procedure protocols for chest, abdomen, and upper extremity are presented. Demonstration of applicable factors and radiation protection methods are learned in order to achieve quality radiographs while providing compassionate and optimum patient care. Clinical lab experience will compliment didactic instruction.

CLP 101 Clinical Practicum I

RAD 101;104

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

RAD 102 Radiography II

**RAD 101; RAD 104; 105
CLP 101**

Course Description:

This course builds upon the foundation of image production identifying the prime components of radiographic image quality and its control. Image processing for screen –film versus digital imaging along with radiographic accessories for routine diagnostic radiography are analyzed. Radiation protection and biology discuss radiation interaction with atoms and cellular structures. Patient care methodologies are continued emphasizing imaging techniques for mobile, OR and trauma patients including age specific routines. Quality management will include theory and application of basic quality control tests of radiographic equipment.

RAD 105 Radiographic Imaging II/ Lab

**RAD 101; 102; 104
CLP 101**

Course Description:

In this second course of imaging series, anatomy and positioning terminology and their procedure protocols for lower extremity, shoulder and pelvic girdles, ribs and sternum as well as pediatric and geriatric methodologies are learned. Patient care protocols are always emphasized. Clinical lab experience will compliment didactic instruction.

CLP 102 Clinical Practicum II

**RAD 101; 102; 105
CLP 101**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

RAD 103 Radiography III

**RAD 101; 102; 104; 105; 106
CLP 101; 102**

Course Description:

Biological Aspects of Radiation, personnel protection and minimizing patient exposure are studied in depth. Patient Care introduces the relationship of pharmacology to contrast media studies along with learning venipuncture technique and patient assessment skills. Advanced modalities and special studies will prepare students for senior year clinical rotations.

RAD 106 Radiographic Imaging III/ Lab

**RAD 101; 102; 103
CLP 101; 102**

Course Description:

In this third course of imaging series, anatomy and positioning terminology and their procedure protocols for the entire spinal column are presented. Patient Care protocols are always emphasized. Clinical lab experience will compliment didactic instruction.

CLP 103 Clinical Practicum III

**RAD 101; 102; 106
CLP 101; 102**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

CLP 204 Clinical Practicum IV

**RAD 101; 102; 103; 106
CLP 101; 102; 103**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

RAD 204 Radiography IV

**RAD 101; 102; 103; 104; 105; 106; 207
CLP 102; 102; 103; 204**

Course Description:

Content continues with Cross-Sectional Anatomy providing the entry-level radiography student with knowledge of sectional imaging components, the concepts of transverse radiography and image reconstruction and the sectional anatomy of the head, thorax and abdomen. Advanced principles of digital radiography and radiation physics will be explored. Radiographic Pathology will incorporate causation of certain radiologic selected diseases, its age specific responses, and the radiographic technical changes used to provide diagnostic radiographs incorporating the ALARA principle.

RAD 207 Radiographic Imaging IV /Lab

**RAD 101; 102; 103; 104; 105; 106 ; 204
CLP 101; 102; 103; 204**

Course Description:

In this last course of imaging series, anatomy and positioning terminology and their procedure protocols for contrast studies, skull, and advanced studies such as Myelography, Arthrography and ERCP are learned. Patient care protocols are always emphasized. Clinical lab experience will compliment didactic experience.

CLP 205 Clinical Practicum V

**RAD 101; 102; 103; 106; 204; 207
CLP 101; 102; 103; 204**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

RAD 205 Radiography V

**RAD 101; 102; 103; 104; 106; 204; 207
CLP 101; 102; 103; 204; 205**

Course Description:

This course finalizes the student radiographer's foundation of the previous courses learned. Quality Assurance, repeat analysis and trouble shooting procedures are taught. Image production incorporates technique charts, conversion exposure problems, and factors used for achieving quality radiographs. Radiographic pathology summarizes the pathological affect on radiographs. Students will create Critical thinking radiographic analysis projects affirming their understanding of image production and evaluation.

CLP 206 Clinical Practicum VI

**RAD 101; 102; 103; 106; 204; 205; 207
CLP 101; 102; 103; 204; 205**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

RAD 208 Radiography VI

**RAD 101; 102; 103; 104; 106; 204; 205; 207
CLP 101; 102; 103; 204; 205; 206**

Course Description:

A general comprehensive review of all learned material prepares the student for the upcoming ARRT national registry examination. Content Specifications, test taking preparation, and continuing education opportunities will be discussed. Students will be required to pass mock simulated registry exams and comprehensive tests by the required 80% grade in order to pass this final course in order to graduate.

CLP 207 Clinical Practicum VII

**RAD 101; 102; 103; 106; 204; 205; 207; 208
CLP 101; 102; 103; 204; 205; 206**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.

CLP 208 Clinical Practicum VIII

**RAD 101; 102; 103; 106; 204; 205; 207; 208
CLP 101; 102; 103; 204; 205; 206; 207**

Course Description:

Content is designed to allow the student sequential development of skills needed to complete the required clinical competency evaluations mandated by the JRCERT and the State of New Jersey Board of Examiners for accredited radiography programs. Patient care, assessment, positioning skills, and the student's ability to apply and integrate these concepts will be evaluated.